



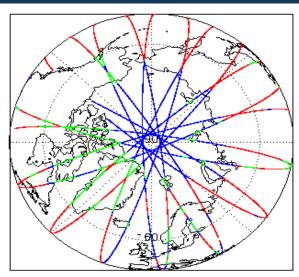
# 1. Overview

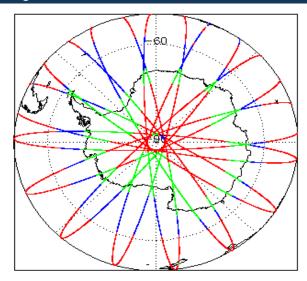
Report Production:	17-Jul-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

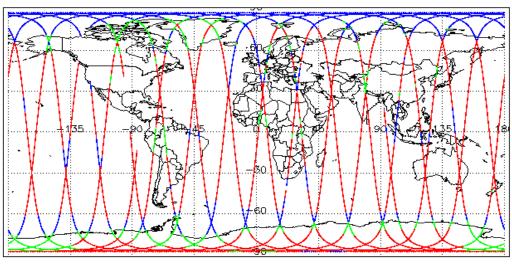
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

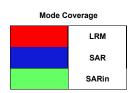
Mission / Instru	Mission / Instrument News	
13-Jul-2019	None	
14-Jul-2019	None	
15-Jul-2019	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

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#### 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

0

#### 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190714T104232_20190714T105508_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190714T215856_20190714T221347_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190714T224938_20190714T230014_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T020417_20190714T020701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T042316_20190714T042358_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T091846_20190714T092312_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T093822_20190714T094035_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T102254_20190714T102424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T105943_20190714T110411_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T155529_20190714T155644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T210720_20190714T210851_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190714T224223_20190714T224327_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T010836_20190714T011245_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T041526_20190714T041626_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T055347_20190714T055533_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T082951_20190714T083024_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T105756_20190714T105849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T163757_20190714T163923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T175150_20190714T175332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190714T232257_20190714T232524_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

0

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

51

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190714T010355_20190714T010429_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20190714T010429_20190714T010432_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20190714T160733_20190714T161058_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190714T001600_20190714T001744_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_20190714T011245_20190714T011729_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_20190714T020417_20190714T020701_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_20190714T033522_20190714T033910_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_20190714T051500_20190714T051815_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_20190714T060556_20190714T060630_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20190714T070234_20190714T070345_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190714T074140_20190714T074408_C001	Mean Sea Suriace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (EES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20190714T074445_20190714T074606_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_20190714T091846_20190714T092312_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_20190714T092402_20190714T092516_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_20190714T101807_20190714T102042_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_20190714T105943_20190714T110411_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_20190714T115719_20190714T120046_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_20190714T123841_20190714T124232_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_20190714T133826_20190714T134008_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190714T164733_20190714T164856_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190714T183319_20190714T183640_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_20190714T200755_20190714T201031_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_20190714T214506_20190714T214925_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_20190714T224223_20190714T224327_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_20190714T224645_20190714T224851_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190714T232524_20190714T232717_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190714T233539_20190714T233726_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190714T010836_20190714T011245_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_20190714T024623_20190714T025326_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_20190714T041526_20190714T041626_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190714T042635_20190714T043423_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_20190714T060630_20190714T061455_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_20190714T074607_20190714T075345_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_20190714T092516_20190714T093038_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_20190714T102042_20190714T102253_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20190714T110411_20190714T111121_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_20190714T124233_20190714T124737_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_20190714T141926_20190714T142814_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_20190714T155846_20190714T160733_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_20190714T161541_20190714T161727_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190714T173636_20190714T174410_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_20190714T174410_20190714T174537_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_20190714T191619_20190714T192308_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_20190714T192308_20190714T192729_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_20190714T205541_20190714T210155_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_20190714T210155_20190714T210306_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_20190714T212528_20190714T212742_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_IOPR_2_20190714T223555_20190714T223728_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190714T223756_20190714T223949_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_20190714T223949_20190714T224223_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

# 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

## 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190713T235107_20190714T001413_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_20190714T001745_20190714T002620_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_20190714T002941_20190714T005357_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_20190714T012541_20190714T014041_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_20190714T014228_20190714T015315_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_20190714T015958_20190714T020417_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_20190714T020900_20190714T023508_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_20190714T023511_20190714T023738_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_20190714T024033_20190714T024623_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_20190714T030050_20190714T031612_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_20190714T032144_20190714T033130_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_20190714T033910_20190714T034456_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_20190714T034753_20190714T035237_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_20190714T043752_20190714T051109_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_20190714T051815_20190714T052327_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_20190714T052756_20190714T054434_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_20190714T060300_20190714T060437_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_20190714T061456_20190714T062624_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_20190714T062630_20190714T064508_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_20190714T064518_20190714T065012_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_20190714T065629_20190714T065815_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_20190714T065821_20190714T070234_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_20190714T070725_20190714T074008_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_20190714T074008_20190714T074117_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_20190714T074408_20190714T074445_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_20190714T075345_20190714T082245_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_20190714T082248_20190714T082927_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_20190714T083151_20190714T083713_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_20190714T083732_20190714T083948_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_20190714T084820_20190714T090045_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_20190714T090202_20190714T091846_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_20190714T092312_20190714T092401_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_20190714T093240_20190714T093822_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_20190714T094035_20190714T095146_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_20190714T095349_20190714T100820_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_20190714T101117_20190714T101611_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_20190714T102515_20190714T102947_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_20190714T104232_20190714T105508_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_20190714T111724_20190714T111735_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_20190714T113308_20190714T114716_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_20190714T115050_20190714T115525_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_20190714T120307_20190714T122035_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_20190714T123155_20190714T123628_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_20190714T130211_20190714T132616_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_20190714T133051_20190714T133438_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_20190714T133500_20190714T133825_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_20190714T134152_20190714T135255_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_20190714T135826_20190714T140819_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190714T144030_20190714T150602_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_20190714T150903_20190714T151352_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_20190714T152209_20190714T153210_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_20190714T153531_20190714T155525_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_20190714T160733_20190714T161058_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_20190714T164032_20190714T164206_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190714T164856_20190714T165421_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_20190714T170127_20190714T172223_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_20190714T172509_20190714T173635_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_20190714T174640_20190714T174959_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_20190714T180625_20190714T182313_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.

	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20190714T182821_20190714T183319_C001	Backscatter Quality	for one or more records.
CS_OFFL_SIR_IOPM_2_20190714T184026_20190714T191619_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_20190714T192729_20190714T192742_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_20190714T193800_20190714T200057_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_20190714T201031_20190714T201224_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_20190714T202010_20190714T203643_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_20190714T204125_20190714T205029_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_20190714T210427_20190714T210719_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_20190714T210851_20190714T212528_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_20190714T212742_20190714T214224_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_20190714T215221_20190714T215637_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_20190714T215856_20190714T221347_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_20190714T221547_20190714T222507_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_20190714T224327_20190714T224406_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_20190714T224938_20190714T230014_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_20190714T230942_20190714T232257_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_20190714T232718_20190714T233539_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_20190714T233851_20190714T235501_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_20190714T235609_20190714T235954_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_20190714T002620_20190714T002803_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_20190714T011245_20190714T011729_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_20190714T052447_20190714T052756_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_20190714T101612_20190714T101617_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_20190714T105756_20190714T105849_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_20190714T114716_20190714T114858_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_20190714T153210_20190714T153531_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_20190714T212528_20190714T212742_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_20190714T214451_20190714T214506_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190714T215812_20190714T215856_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors: 82  Product	Test Failed	Description
Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20190714T005653_20190714T005803_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_20190714T011245_20190714T011729_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_20190714T011817_20190714T011939_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_20190714T012400_20190714T012540_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_20190714T015537_20190714T015711_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_20190714T020417_20190714T020701_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_20190714T033522_20190714T033910_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_20190714T040322_20190714T040517_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_20190714T040613_20190714T040712_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_20190714T041436_20190714T041526_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_20190714T041626_20190714T041652_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_20190714T042059_20190714T042221_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_20190714T042316_20190714T042358_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_20190714T051500_20190714T051815_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_20190714T052327_20190714T052446_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_20190714T065217_20190714T065629_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_20190714T070234_20190714T070345_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_20190714T083948_20190714T084133_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_20190714T091846_20190714T092312_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_20190714T093038_20190714T093108_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_20190714T100934_20190714T1011117_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_20190714T102254_20190714T102424_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.

DOCS   Proceedings   Docs	CS_OFFL_SIR_IOPN_2_20190714T1103648_20190714T1104212_C001  OCOG Backscatter Quality  CS_OFFL_SIR_IOPN_2_20190714T112258_20190714T112334_C001  OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality  CS_OFFL_SIR_IOPN_2_20190714T1123628_20190714T123751_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.	y Flags ve been or one or y Flags ve been or one or
CO. GPTL_SPL_CPTL_20160714716805_2010714716805_C011  CO. GPTL_SPL_CPTL_20160714716805_2010714716805_C011  CO. GPTL_SPL_CPTL_20160714716905_2010714716805_C011  CO. GPTL_SPL_CPTL_20160714716905_2010714716905_C011  CO. GPTL_SPL_CPTL_20160714716905_2010714716905_C011  CO. GPTL_SPL_CPTL_20160714716905_2010714716905_C011  CO. GPTL_SPL_CPTL_20160714716905_2010714716905_C011  CO. GPTL_SPL_CPTL_20160714716905_2010714716905_C011  CO. GPTL_SPL_CPTL_20160714716905_C011  CO. GPTL_SPL_CPTL_20160	OCOG Backscatter Quality  CS_OFFL_SIR_IOPN_2_20190714T114859_20190714T115050_C001  CS_OFFL_SIR_IOPN_2_20190714T114859_20190714T115050_C001  CS_OFFL_SIR_IOPN_2_20190714T115719_20190714T120046_C001  CS_OFFL_SIR_IOPN_2_20190714T123628_20190714T123751_C001  CS_OFFL_SIR_IOPN_2_20190714T123628_20190714T123751_C001  CS_OFFL_SIR_IOPN_2_20190714T124738_20190714T124818_C001  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.  The OCOG Range and Backscatter Quality Flags have been set in more records.	y Flags ve been or one or or one or y Flags ve been or one or
Base General Press Codes and P	CS_OFFL_SIR_IOPN_2_20190714T114859_20190714T115050_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPN_2_20190714T115719_20190714T120046_C001  CS_OFFL_SIR_IOPN_2_20190714T123628_20190714T123751_C001  CS_OFFL_SIR_IOPN_2_20190714T123628_20190714T123751_C001  CS_OFFL_SIR_IOPN_2_20190714T124738_20190714T124818_C001  Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality  CS_OFFL_SIR_IOPN_2_20190714T124738_20190714T124818_C001  And Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set in order records.  The OCOG Range and Backscatter Quality Flags have been set in order records.  The OCOG Range and Backscatter Quality Flags have been set in order records.  The OCOG Range and Backscatter Quality Flags have been set in order records.  The OCOG Range and Backscatter Quality Flags have been set in order records.  The OCOG Range and Backscatter Quality Flags have been set in order records.  The OCOG Range and Backscatter Quality Flags have been set in order records.  The OCOG Range and Backscatter Quality Flags have been set in order records.	or one or or one or y Flags ve been or one or
CB_OFFL_SR_OPFL_2_20190714712309_20190714712309_CO001  CB_OFFL_SR_OPFL_2_20190714712309_20190714712309_CO001  CB_OFFL_SR_OPFL_2_20190714712309_CO00714713309_CO001  CB_OFFL_SR_OPFL_2_20190714712309_CO00714713309_CO001  CB_OFFL_SR_OPFL_2_20190714712309_CO00714713309_CO001  CB_OFFL_SR_OPFL_2_20190714712309_CO00714713309_CO00714713309_CO001  CB_OFFL_SR_OPFL_2_20190714713309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO0071471309_CO007147	CS_OFFL_SIR_IOPN_2_20190714T123628_20190714T123751_C001  CS_OFFL_SIR_IOPN_2_20190714T123628_20190714T123751_C001  CS_OFFL_SIR_IOPN_2_20190714T124738_20190714T124818_C001  CS_OFFL_SIR_IOPN_2_20190714T124738_20190714T124818_C001  OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range	or one or y Flags ve been or one or
Column	CS_OFFL_SIR_IOPN_2_201907141123628_201907141123751_C001  OCOG Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags had the OCOG Altimeter Range and Backscatter Quality Flags had the OCOG Altimeter Range and Backscatter Quality Flags had the OCOG Altimeter Range and Backscatter Quality Flags had been considered to the ocogon where the ocogon wher	y Flags ve been or one or
Bell-Rockets Caulity P. R.M. COORD. 20100714710001_0109714710001_000971471000097147100000_0009714710000000000000000000000000000000	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been	or one or
CS_OFFL_SRI_OPN_2_20190714T19265_20190714T19265_C001  CS_OFFL_SRI_OPN_2_20190714T19265_20190714T19265_C001  CS_OFFL_SRI_OPN_2_20190714T19265_20190714T19265_C001  CS_OFFL_SRI_OPN_2_20190714T19265_20190714T192656_C001  CS_OFFL_SRI_OPN_2_20190714T19265_20190714T192656_C001  CS_OFFL_SRI_OPN_2_20190714T19265_20190714T192656_C001  CS_OFFL_SRI_OPN_2_20190714T192656_20190714T192656_C001  CS_OFFL_SRI_OPN_2_20190714T19270_20190714T192656_C001  CS_OFFL_SRI_OPN_2_20190714T192676_C001  CS_OFFL_SRI_OPN_2_20190714T192676_C001	PLKM	
CS_OFFL_SIR_IOPN_2_20190714T130284_20190714T130284_C001  CS_OFFL_SIR_IOPN_2_20190714T130284_20190714T130284_C001  CS_OFFL_SIR_IOPN_2_20190714T130284_20190714T130284_C001  CS_OFFL_SIR_IOPN_2_20190714T130284_20190714T130284_C001  CS_OFFL_SIR_IOPN_2_20190714T130284_20190714T130284_C001  CS_OFFL_SIR_IOPN_2_20190714T130284_20190714T102084_C001  CS_OFFL_SIR_IOPN_2_20190714T100287_20190714T100287_C001  CS_OFFL_SIR_IOPN_2_20190714T20028_20190714T100287_C001  CS_OFFL_SIR_IOPN_2_20190714T20028_20190714T100287_C001  CS_OFFL_SIR_IOPN_2_20190714T20028_20190714T100287_C001  CS_OFFL_SIR_IOPN_2_20190714T20028_20190714T100287_C001  CS_OFFL_SIR_IOPN_2_20190714T20028_20190714T2000000000000000000000000000000000000		or one or
OCG Backscater Clasity  The OCGG Range and Backscater Clasity Flags have been set for one or not record.  CS_OFFL_SIR_IOPN_2_20180714T142814_20190714T142844_C001  CG_OFFL_SIR_IOPN_2_20180714T142824_20190714T162842_C001  CG_OFFL_SIR_IOPN_2_20180714T162442_20190714T162842_C001  CG_OFFL_SIR_IOPN_2_20180714T162442_20190714T162842_C001  CG_OFFL_SIR_IOPN_2_20180714T162442_20190714T16466_C001  CG_OFFL_SIR_IOPN_2_20180714T162442_20190714T16466_C001  CG_OFFL_SIR_IOPN_2_20180714T162422_20190714T16466_C001  CG_OFFL_SIR_IOPN_2_20180714T160017_20190714T164002_C001  CG_OFFL_SIR_IOPN_2_20180714T160017_20190714T164002_C001  CG_OFFL_SIR_IOPN_2_20180714T160017_20190714T164002_C001  CG_OFFL_SIR_IOPN_2_20180714T1201224_20190714T201224_C0190714T		
OCCS Backscater Guality more records.  CS_OFFL_SRR_IOPN_2_20160744T162542_20190714T162662_2001  OCCS Allimeter Range Quality PLRM, OCCS Backscater Guality PLRM, OCCS Allimeter Range and Backscater Guality PLRM, OCCS Allimeter Range Backscater Guality PLRM, OCCS Allimeter Range Backscater Guality PLRM, OCCS Backscater Guality PLRM, OCC		or one or
OCGS Blackscatter Quality PLRM, DOCGS Blackscatter Quality PLRM, D		or one or
OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Alterneter Ran		or one or
CS_OFFL_SIR_IOPN_2_20190714T164733_20190714T168626_C001  All Miller Range_SSHA_CNAM and backscatter Quality Plags and Backscat		or one or
CS_OFFL_SIR_IOPN_2_20190714T160317_20190714T160625_C001  CS_OFFL_SIR_IOPN_2_20190714T180317_20190714T201849_C001  CS_OFFL_SIR_IOPN_2_20190714T201224_20190714T201849_C001  CS_OFFL_SIR_IOPN_2_20190714T201849_C001  CCOO Altimeter Range Quality PLRM. CCOO Backscatter Quality CCOO Backscatter Quality CCOO Backscatter Quality CCOO Backscatter Quality CRM  CCOO Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20190714T201849_C001  CCOO Altimeter Range Quality PLRM. CCOO Backscatter Quality CCOO Backscatter	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plant, OCOG Altimeter Range and Backscatter Quality Plant to OCOG Altimeter Range	
CS_OFFL_SIR_IOPN_2_20190714T201224_20190714T201849_CO01  CS_OFFL_SIR_IOPN_2_20190714T201224_20190714T201849_CO01  CS_OFFL_SIR_IOPN_2_20190714T214506_20190714T214925_CO01  CS_OFFL_SIR_IOPN_2_20190714T214506_20190714T214925_CO01  CS_OFFL_SIR_IOPN_2_20190714T22558_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223758_CO01  CS_OFFL_SIR_IOPN_2_20190714T223758_CO01  CS_OFFL_SIR_IOPN_2_20190714T223758_CO01  CS_OFFL_SIR_IOPN_2_20190714T223758_CO01  CS_OFFL_SIR_IOPN_2_20190714T223758_CO01  CS_OFFL_SIR_IOPN_2_20190714T223758_CO01  CS_OFFL_SIR_IOPN_2_20190714T223758_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230442_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230442_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T23042_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T23042_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T23042_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T23042_CO01  CCG_Allimeter Range Quality PLRM. CCG_Backscatter Quality PLRM. CCG_Backsca	CS_OFFL_SIR_IOPN_2_20190714T165422_20190714T165734_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags have a proper records and the OCOG Altimeter Range and Backscatter Quality Plags have a proper records and the OCOG Altimeter Range and Backscatter Quality Plags have a proper records.	
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20190714T214506_20190714T214925_C001  CS_OFFL_SIR_IOPN_2_20190714T222508_20190714T222544_C001  CS_OFFL_SIR_IOPN_2_20190714T222508_20190714T222546_C001  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_C001  CS_OFFL_SIR_IOPN_2_20190714T23728_20190714T223756_C001  CS_OFFL_SIR_IOPN_2_20190714T23728_20190714T223756_C001  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T2330442_C001  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230442_C001  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230442_C001  CS_OFFL_SIR_IOPN_2_20190714T230542_20190714T230542_C001  CS_OFFL_SIR_IOPN_2_20190714T235539_20190714T233778_C001  CS_OFFL_SIR_IOPN_2_20190714T235539_20190714T233778_C001  CS_OFFL_SIR_IOPN_2_20190714T235539_20190714T233778_C001  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010701_C001	CS OFFL SIR IOPN 2 20190/141180317 20190/141180625 C001	or one or
and Backscatter Quality PLRM, CCG SOFFL_SIR_IOPN_2_20190714T214506_20190714T214925_CO01  All Imeter Range and Backscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20190714T223726_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223726_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T223726_20190714T223756_CO01  CS_OFFL_SIR_IOPN_2_20190714T224645_20190714T224851_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230942_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230942_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230942_CO01  CS_OFFL_SIR_IOPN_2_20190714T23559_20190714T233726_CO01  CS_OFFL_SIR_IOPN_2_20190714T23559_20190714T233726_CO01  CS_OFFL_SIR_IOPN_2_20190714T23559_20190714T233726_CO01  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPN_2_20190714T0105315_20190714T0105	CS_OFFL_SIR_IOPN_2_20190714T201224_20190714T201849_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have a first one or more records.	
CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_C001  CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_C001  CS_OFFL_SIR_IOPN_2_20190714T224851_C001  CS_OFFL_SIR_IOPN_2_20190714T224851_C001  CS_OFFL_SIR_IOPN_2_20190714T224851_C001  CS_OFFL_SIR_IOPN_2_20190714T224852_20190714T230942_C001  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230942_C001  CS_OFFL_SIR_IOPN_2_20190714T235539_20190714T233726_C001  CS_OFFL_SIR_IOPN_2_20190714T235539_20190714T233726_C001  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T010537_C001  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T015337_C001  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T0105314_C001  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T0105314_C0	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plant to OCOG Altimeter Range and Backscatter Quality Set for one or more records.	
CS_OFFL_SIR_IOPN_2_20190714T223728_20190714T223756_CO01  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20190714T224645_20190714T224851_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230942_CO01  CS_OFFL_SIR_IOPN_2_20190714T230442_20190714T230942_CO01  CS_OFFL_SIR_IOPN_2_20190714T230524_20190714T230942_CO01  CS_OFFL_SIR_IOPN_2_20190714T235539_20190714T232717_CO01  CS_OFFL_SIR_IOPN_2_20190714T235539_20190714T233726_CO01  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T015537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T010537_CO01  CS_OFFL_SIR_IOPR_2_20190714T0105315_2019071		or one or
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, ocog and the OCOG Altimeter Range and Backscatter Quality PLRM, ocog and the OCOG Altimeter Range and Backscatter Quality PLRM, ocog and the OCOG Altimeter Range and Backscatter Quality PLRM, ocog and the OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPN_2_20190714T232524_20190714T232717_C001  CS_OFFL_SIR_IOPN_2_20190714T233539_20190714T233726_C001  CS_OFFL_SIR_IOPN_2_20190714T233539_20190714T233726_C001  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T015537_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T015537_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T013814_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  CCOG Altimeter Range And Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM COCOG Altimeter Range and Backscatter Qual	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plant on the OCOG Altimeter Range and Backscatter Quality Plant of the OCOG Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_IOPN_2_20190714T232524_20190714T232717_C001  CS_OFFL_SIR_IOPN_2_20190714T232524_20190714T233726_C001  CS_OFFL_SIR_IOPN_2_20190714T233539_20190714T233726_C001  CS_OFFL_SIR_IOPN_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T015537_C001  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T015337_C001  CS_OFFL_SIR_IOPR_2_20190714T0105315_20190714T015337_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  CCGG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM oCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, ocog Altimeter Range, SSHA, SWH and B	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plant to OCO Altimeter Range and Backscatter Quality Set for one or more records.	
CS_OFFL_SIR_IOPN_2_20190714T233738_20190714T023814_C001  OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH 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_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T015537_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T015537_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T015315_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  OCOG Backscatter Quality PLRM, 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 have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.		or one or
CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T015537_C001  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T01537_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  OCOG Backscatter Quality PLRM  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  OCOG Backscatter Quality PLRM  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		or one or
CS_OFFL_SIR_IOPR_2_20190714T010433_20190714T010701_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T015537_C001  CS_OFFL_SIR_IOPR_2_20190714T023738_20190714T023814_C001  and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Ran		or one or
CS_OFFL_SIR_IOPR_2_20190714T015315_20190714T01537_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_20190714T023738_20190714T023814_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags have been described by the Coop of more records.	
OCOG Backscatter Quality more records.	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Pland Backscat	
	OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set in	or one or
CS_OFFL_SIR_IOPR_2_20190714T033130_20190714T033521_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plant, OCOG Altimeter Range and Backscatter Quality Plant, OCOG Altimeter Range and Backscatter Quality Plant to OCOG Altimeter Range a	

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20190714T034614_20190714T034753_C001	and Backscatter Quality PLRM, OCOG 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_20190714T041253_20190714T041436_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_20190714T051109_20190714T051500_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_20190714T055347_20190714T055533_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_20190714T055806_20190714T060259_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_20190714T070345_20190714T070725_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_20190714T084134_20190714T084820_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_20190714T093109_20190714T093239_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_20190714T102042_20190714T102253_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_20190714T105756_20190714T105849_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_20190714T110411_20190714T111121_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_20190714T112606_20190714T113308_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_20190714T114716_20190714T114858_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_20190714T120047_20190714T120307_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_20190714T124818_20190714T125031_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_20190714T132616_20190714T132825_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_20190714T141926_20190714T142814_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_20190714T155644_20190714T155724_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_20190714T161058_20190714T161200_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_20190714T164443_20190714T164733_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_20190714T165734_20190714T170127_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_20190714T173636_20190714T174410_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_20190714T175556_20190714T175748_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_20190714T182314_20190714T182706_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_20190714T183641_20190714T184026_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_20190714T192308_20190714T192729_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_20190714T200057_20190714T200755_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_20190714T212528_20190714T212742_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_20190714T221347_20190714T221547_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_20190714T223555_20190714T223728_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_20190714T224453_20190714T224644_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_20190714T224851_20190714T224938_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_20190714T235502_20190714T235609_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

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

Number of products with errors: 19

# 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

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

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

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

Number of products with errors: 1-

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

lumber 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.

umber of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190713T233134_20190714T002111_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)
CS_OFFL_SIR_IOP_220190714T002111_20190714T011047_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_220190714T011047_20190714T020025_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_220190714T025001_20190714T033939_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_220190714T033939_20190714T042915_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_220190714T042915_20190714T051852_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_220190714T051852_20190714T060828_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_220190714T060828_20190714T065806_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_20190714T065806_20190714T074742_C001	Mean sea suriace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (EES), Non-Equilibrium Long Pariod	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_220190714T074742_20190714T083719_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_220190714T083719_20190714T092655_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_220190714T092655_20190714T101633_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_220190714T101633_20190714T110609_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_220190714T110609_20190714T115546_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_220190714T115546_20190714T124522_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_20190714T124522_20190714T133500_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_220190714T133500_20190714T142436_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_20190714T142436_20190714T151414_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_220190714T151414_20190714T160350_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_20190714T160350_20190714T165327_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_20190714T165327_20190714T174303_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_220190714T174303_20190714T183241_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_220190714T183241_20190714T192217_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_20190714T192217_20190714T201154_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_220190714T201154_20190714T210130_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_220190714T210130_20190714T215108_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_20190714T215108_20190714T224044_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_220190714T224044_20190714T233021_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_220190714T233021_20190715T001957_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

## 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

## 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20Hz)

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

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

Number of products with errors:

## P2P Quality Flags (20Hz PLRM)

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

Number of products with errors:

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

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

Number of products with errors:

2

## 6.8 P2P Ocean Retracking Quality Check

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

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

Number of products with errors:

## 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.