



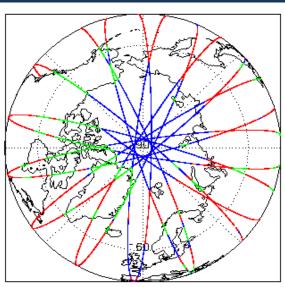
1. Overview

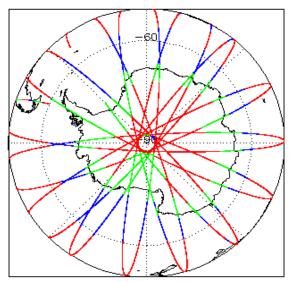
Report Production:	01-Oct-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

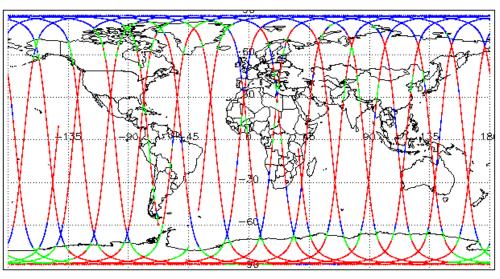
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

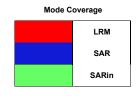
Mission / Instrument News		
27-Sep-2019	None	
28-Sep-2019	None	
29-Sep-2019 SIRAL unavailability from 29-Sep-2019 21:41:06 to 30-Sep-2019 09:35:16 due to an unplanned platform anomaly.		

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190928T024144_20190928T024327_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20190928T053534_20190928T054840_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20190928T085103_20190928T091549_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

19

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190928T055054_20190928T061020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190928T072015_20190928T072453_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190928T073119_20190928T073431_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190928T184719_20190928T190107_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T011017_20190928T011121_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T043247_20190928T043355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T061052_20190928T061309_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T071348_20190928T071449_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T074634_20190928T075146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T161215_20190928T161547_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T175054_20190928T175212_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T193029_20190928T193236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T193334_20190928T193603_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190928T210941_20190928T211426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190928T011415_20190928T012207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190928T093008_20190928T093727_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190928T134514_20190928T134929_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190928T161057_20190928T161214_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20190928T224405_20190928T225013_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:

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.

S_OFFL_SIR_IOPM_2_20190928T063015_20190928T064040_C001		
	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPM_2_20190928T093744_20190928T094007_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
S_OFFL_SIR_IOPM_2_20190928T111747_20190928T112256_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPM_2_20190928T141306_20190928T142430_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
S_OFFL_SIR_IOPM_2_20190928T210059_20190928T210208_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPM_2_20190928T210208_20190928T210344_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T002332_20190928T002701_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)
S_OFFL_SIR_IOPN_2_20190928T020242_20190928T020603_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)
S_OFFL_SIR_IOPN_2_20190928T025304_20190928T025449_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)
S_OFFL_SIR_IOPN_2_20190928T035017_20190928T035126_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T043247_20190928T043355_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)
S_OFFL_SIR_IOPN_2_20190928T052717_20190928T052913_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)
S_OFFL_SIR_IOPN_2_20190928T061052_20190928T061309_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
S_OFFL_SIR_IOPN_2_20190928T074634_20190928T075146_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
S_OFFL_SIR_IOPN_2_20190928T083627_20190928T083927_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T084557_20190928T084843_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T092634_20190928T093008_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T111440_20190928T111515_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T111630_20190928T111747_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T124235_20190928T124400_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
S_OFFL_SIR_IOPN_2_20190928T134209_20190928T134514_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)
S_OFFL_SIR_IOPN_2_20190928T151512_20190928T151821_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)
S_OFFL_SIR_IOPN_2_20190928T165547_20190928T165821_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)
S_OFFL_SIR_IOPN_2_20190928T175054_20190928T175212_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
S_OFFL_SIR_IOPN_2_20190928T183043_20190928T183700_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)
	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
SS_OFFL_SIR_IOPN_2_20190928T193029_20190928T193236_C001	Topography (1)	Topography height (solution 1)

CS_OFFL_SIR_IOPN_2_20190928T201308_20190928T201443_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_20190928T202336_20190928T202536_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_20190928T210941_20190928T211426_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_20190928T220125_20190928T220355_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_20190928T233223_20190928T233615_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPR_2_20190928T011415_20190928T012207_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_20190928T025450_20190928T030247_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_20190928T043355_20190928T044116_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_20190928T054840_20190928T055054_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20190928T061309_20190928T061644_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_20190928T061644_20190928T062025_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20190928T075146_20190928T075903_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_20190928T093008_20190928T093727_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_20190928T110701_20190928T111440_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_20190928T124629_20190928T125301_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_20190928T125301_20190928T125439_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_20190928T142431_20190928T143200_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_20190928T143200_20190928T143349_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_20190928T143839_20190928T144225_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_20190928T160616_20190928T161057_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_20190928T161057_20190928T161214_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_20190928T174404_20190928T174936_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_20190928T174936_20190928T175053_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_20190928T192611_20190928T193029_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_20190928T210427_20190928T210940_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_20190928T224405_20190928T225013_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.

3

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190928T024144_20190928T024327_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20190928T053534_20190928T054840_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20190928T085103_20190928T091549_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190927T234719_20190928T001849_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_20190928T002702_20190928T003232_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_20190928T003633_20190928T004020_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_20190928T011008_20190928T011016_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_20190928T011121_20190928T011415_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_20190928T012607_20190928T015902_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_20190928T020603_20190928T021117_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_20190928T021645_20190928T023257_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_20190928T025056_20190928T025149_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_20190928T030247_20190928T033748_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_20190928T034143_20190928T034603_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_20190928T034622_20190928T035017_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_20190928T035535_20190928T042856_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_20190928T043000_20190928T043247_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_20190928T044116_20190928T045539_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_20190928T050021_20190928T050356_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_20190928T050512_20190928T051718_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_20190928T051944_20190928T052502_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_20190928T053534_20190928T054840_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_20190928T055054_20190928T061020_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_20190928T063015_20190928T064040_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_20190928T064220_20190928T065558_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_20190928T065910_20190928T070413_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_20190928T071245_20190928T071343_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_20190928T071533_20190928T071722_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_20190928T072015_20190928T072453_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_20190928T073119_20190928T073431_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_20190928T081147_20190928T081332_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_20190928T081441_20190928T083435_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_20190928T083927_20190928T084329_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_20190928T085103_20190928T091549_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_20190928T095019_20190928T101344_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_20190928T101717_20190928T102243_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_20190928T103002_20190928T110209_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_20190928T111747_20190928T112256_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_20190928T112330_20190928T112435_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_20190928T112628_20190928T114636_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_20190928T114907_20190928T115310_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_20190928T115718_20190928T120521_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_20190928T121054_20190928T124235_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_20190928T125439_20190928T125654_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_20190928T132539_20190928T133108_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_20190928T133653_20190928T134209_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_20190928T134929_20190928T141020_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_20190928T141306_20190928T142430_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_20190928T143349_20190928T143839_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_20190928T144605_20190928T145101_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_20190928T145314_20190928T145912_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_20190928T150100_20190928T151055_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_20190928T152835_20190928T155425_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_20190928T155604_20190928T160429_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_20190928T161719_20190928T162409_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_20190928T162423_20190928T164845_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_20190928T170749_20190928T171124_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_20190928T171215_20190928T172340_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_20190928T172344_20190928T173408_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_20190928T175212_20190928T175607_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_20190928T175733_20190928T181319_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_20190928T181939_20190928T183036_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_20190928T183700_20190928T183933_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_20190928T183956_20190928T184422_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_20190928T184719_20190928T190107_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_20190928T190247_20190928T190553_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_20190928T193248_20190928T193334_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_20190928T193935_20190928T194645_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_20190928T194808_20190928T201051_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_20190928T201443_20190928T202336_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_20190928T202707_20190928T204946_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_20190928T211644_20190928T215023_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_20190928T215701_20190928T220125_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_20190928T220632_20190928T223124_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_20190928T223801_20190928T224404_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_20190928T225827_20190928T232817_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_20190928T233615_20190928T234204_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_20190928T234527_20190929T000314_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_20190928T021118_20190928T021241_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_20190928T210941_20190928T211426_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_20190928T004021_20190928T004328_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_20190928T024644_20190928T025056_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_20190928T093727_20190928T093744_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_20190928T115310_20190928T115553_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_20190928T125805_20190928T125835_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_20190928T143200_20190928T143349_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_20190928T145912_20190928T150100_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_20190928T151055_20190928T151511_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_20190928T173408_20190928T173553_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_20190928T190107_20190928T190246_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20190928T002332_20190928T002701_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_20190928T005154_20190928T005305_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_20190928T010446_20190928T010535_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_20190928T012208_20190928T012405_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_20190928T020242_20190928T020603_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_20190928T023257_20190928T023624_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_20190928T033950_20190928T034142_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_20190928T035017_20190928T035126_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_20190928T043247_20190928T043355_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_20190928T061052_20190928T061309_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_20190928T062700_20190928T063015_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_20190928T071728_20190928T072015_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_20190928T074634_20190928T075146_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_20190928T092425_20190928T092546_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_20190928T092634_20190928T093008_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_20190928T094007_20190928T094130_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_20190928T094609_20190928T095019_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_20190928T101601_20190928T101716_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_20190928T102615_20190928T102735_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_20190928T110209_20190928T110701_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_20190928T111440_20190928T111515_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_20190928T111630_20190928T111747_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_20190928T120522_20190928T120633_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_20190928T124458_20190928T124629_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_20190928T125835_20190928T125958_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190928T130513_20190928T130655_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_20190928T131614_20190928T131728_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_20190928T134209_20190928T134514_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_20190928T145101_20190928T145314_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_20190928T170016_20190928T170234_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_20190928T175607_20190928T175733_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_20190928T181833_20190928T181939_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_20190928T183043_20190928T183700_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_20190928T192536_20190928T192611_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_20190928T193029_20190928T193236_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_20190928T193334_20190928T193603_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_20190928T193813_20190928T193935_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20190928T201308_20190928T201443_C001 CS_OFFL_SIR_IOPN_2_20190928T201308_20190928T201443_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been more records. CS_OFFL_SIR_IOPN_2_20190928T205928_20190928T210059_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been more records.	Quality Flags ags have been Quality Flags ags have been en set for one or
CS_OFFL_SIR_IOPN_2_20190928T194646_20190928T194808_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20190928T201308_20190928T201443_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205028_20190928T210059_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T210059_C001 CS_OFFL_SIR_IOPN_2_20190928	ags have been Quality Flags lags have been en set for one or
CS_OFFL_SIR_IOPN_2_20190928T201308_20190928T201443_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 CS_OFFL_SIR_IOPN_2_20190928T205015_20190928T205314_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been more records. OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been more records.	ags have been
OCOG Backscatter Quality more records. OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have bee	
OCOG Backscatter Quality more records.	n set for one or
CS_OFFL_SIR_IOPN_2_20190928T210941_20190928T211426_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been more records.	n set for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Fl. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. The Ocean Altimeter Range and Backscatter Quality Fl. The Ocean Altimeter R	
CS_OFFL_SIR_IOPN_2_20190928T233223_20190928T233615_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM	
CS_OFFL_SIR_IOPR_2_20190928T001849_20190928T002332_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and the OCOG Altimeter Range and Backscatter Quality PLRM	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flux PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flux PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit	
CS_OFFL_SIR_IOPR_2_20190928T010107_20190928T010210_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been more records.	n set for one or
CS_OFFL_SIR_IOPR_2_20190928T010714_20190928T011008_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been more records.	n set for one or
CS_OFFL_SIR_IOPR_2_20190928T011415_20190928T012207_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Fl. pLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. pLRM	
CS_OFFL_SIR_IOPR_2_20190928T012406_20190928T012527_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, o	n set for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Fl. and the OCOG Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_IOPR_2_20190928T021242_20190928T021645_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flameter	
CS_OFFL_SIR_IOPR_2_20190928T024327_20190928T024644_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, ocog Backscatter Quality PLRM, ocog Backscatter Quality PLRM, oco	n set for one or
CS_OFFL_SIR_IOPR_2_20190928T025450_20190928T030247_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM	
CS_OFFL_SIR_IOPR_2_20190928T035126_20190928T035534_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality FLRM	
CS_OFFL_SIR_IOPR_2_20190928T043355_20190928T044116_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Fl. pLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl. pLRM	
CS_OFFL_SIR_IOPR_2_20190928T052914_20190928T053533_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and the OCO	
CS_OFFL_SIR_IOPR_2_20190928T054840_20190928T055054_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been more records.	n set for one or
CS_OFFL_SIR_IOPR_2_20190928T061309_20190928T061644_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and the OCO	
CS_OFFL_SIR_IOPR_2_20190928T061644_20190928T062025_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been more records.	n set for one or
CS_OFFL_SIR_IOPR_2_20190928T064041_20190928T064220_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been more records.	n set for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The Ocean Altimeter Range and the OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM	

Discan Althretic Flarge, SSHA, SWN per per common to the common and the common an			
CS_OFFL_SIR_JOPR_2_20199028T10344_2019028T101601_C001	CS_OFFL_SIR_IOPR_2_20190928T075146_20190928T075903_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_JOPR_2_20190928T10243_20190928T11044_C001 GS_OFFL_SIR_JOPR_2_20190928T102735_20190928T100002_C001 GS_OFFL_SIR_JOPR_2_20190928T10701_20190928T111440_C001 GS_OFFL_SIR_JOPR_2_20190928T110701_20190928T111440_C001 GS_OFFL_SIR_JOPR_2_20190928T110701_20190928T111440_C001 GS_OFFL_SIR_JOPR_2_20190928T110701_20190928T111440_C001 GS_OFFL_SIR_JOPR_2_20190928T110701_20190928T111440_C001 GS_OFFL_SIR_JOPR_2_20190928T110701_20190928T111000_C001 GS_OFFL_SIR_JOPR_2_20190928T110000_C001 GS_OFFL_SIR_JOPR_2_20190928T1100000_C001 GS_OFFL_SIR_JOPR_2_20190928T12003_20190928T12005_C001 GS_OFFL_SIR_JOPR_2_20190928T12003_20190928T12005_C001 GS_OFFL_SIR_JOPR_2_20190928T12003_20190928T12005_C001 GS_OFFL_SIR_JOPR_2_20190928T12006_C001 GG_OFFL_SIR_JOPR_2_20190928T12006_C001 GG_OFFL_SIR_JOPR_2_20190928T12006_C001 GG_OFFL_SIR_JOPR_2_20190928T12006_C001 GG_OFFL_SIR_JOPR_2_20190928T12006_C001 GG_OFFL_SIR_JOPR_2_20190928T12006_C001 GG_OFFL_SIR_JOPR_2_20190928T12006_C001 GG_OFFL_SIR_JOPR_2_201909	CS_OFFL_SIR_IOPR_2_20190928T093008_20190928T093727_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, GOOD Affinder Range, and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_IOPR_2_20190928T115310_20190928T11553_Q011 CS_OFFL_SIR_IOPR_2_20190928T120633_20190928T12054_Q011 CS_OFFL_SIR_IOPR_2_20190928T120633_20190928T12054_Q011 CS_OFFL_SIR_IOPR_2_20190928T124402_20190928T124457_Q011 CS_OFFL_SIR_IOPR_2_20190928T124629_20190928T125301_Q011 CS_OFFL_SIR_IOPR_2_20190928T124629_20190928T125301_Q011 CS_OFFL_SIR_IOPR_2_20190928T124629_20190928T133048_Q011 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133027_Q011 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133027_Q011 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133297_Q011 CS_OFFL_SIR_IOPR_2_20190928T133309_20190928T133297_Q011 CS_OFFL_SIR_IOPR_2_20190928T133309_20190928T133399_Q	CS_OFFL_SIR_IOPR_2_20190928T101344_20190928T101601_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_2019928T110701_2019928T11440_CD01 Allmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_2019928T12053_2019928T12054_CD01 CS_OFFL_SIR_IOPR_2_2019928T12053_2019928T12054_CD01 CS_OFFL_SIR_IOPR_2_2019928T12053_2019928T12054_CD01 CS_OFFL_SIR_IOPR_2_2019928T12053_2019928T12054_CD01 CS_OFFL_SIR_IOPR_2_2019928T124400_2019928T12445T_CD01 CS_OFFL_SIR_IOPR_2_20199928T124400_2019928T125301_CD01 CS_OFFL_SIR_IOPR_2_20199928T12459_CD199928T125301_CD01 CS_OFFL_SIR_IOPR_2_20199928T12459_CD199928T133048_CD01 CS_OFFL_SIR_IOPR_2_20199928T133108_20199928T133048_CD01 CS_OFFL_SIR_IOPR_2_20199928T133108_20199928T134029_CD01 CS_OFFL_SIR_IOPR_2_20199928T134514_20199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T142300_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T142300_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T142300_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T134500_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T142330_C0199928T134339_CD01 CS_OFFL_SIR_IOPR_2_20199928T145300_C0199928T144255_CD01 CS_OFFL_SIR_IOPR_2_20199928T145300_C01	CS_OFFL_SIR_IOPR_2_20190928T102735_20190928T103002_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20190928T12510_20190928T12054_C001 Alimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20190928T124400_20190928T124457_C001 CS_OFFL_SIR_IOPR_2_20190928T124400_20190928T124457_C001 CS_OFFL_SIR_IOPR_2_20190928T124400_20190928T124457_C001 CS_OFFL_SIR_IOPR_2_20190928T124629_20190928T125301_C001 CS_OFFL_SIR_IOPR_2_20190928T124629_20190928T125301_C001 CS_OFFL_SIR_IOPR_2_20190928T124629_20190928T125301_C001 CS_OFFL_SIR_IOPR_2_20190928T125658_20190928T130048_C001 CS_OFFL_SIR_IOPR_2_20190928T130048_C001 CS_OFFL_SIR_IOPR_2_20190928T130048_C001 CS_OFFL_SIR_IOPR_2_20190928T130048_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T133527_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T133527_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134029_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T13409_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T134500_C001 CS_OFFL_SIR_IOPR_2_20190928T143300_C0100000000000000000000000000000000	CS_OFFL_SIR_IOPR_2_20190928T110701_20190928T111440_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality Plans, Nor Backscatter Qu	CS_OFFL_SIR_IOPR_2_20190928T115310_20190928T115553_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20190928T125958_20190928T13501_C001 CS_OFFL_SIR_IOPR_2_20190928T125958_20190928T130048_C001 CS_OFFL_SIR_IOPR_2_20190928T125958_20190928T130048_C001 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_C001 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134520_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134520_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134520_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T144225_C001 CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T144225_C001 CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T151511_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T151511_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161511_C001 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161511_C	CS_OFFL_SIR_IOPR_2_20190928T120633_20190928T121054_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20190928T125958_20190928T130048_CO11 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_CO01 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_CO01 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134529_CO01 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134520_CO01 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_CO01 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143349_CO01 CS_OFFL_SIR_IOPR_2_20190928T143300_20190928T143349_CO01 CS_OFFL_SIR_IOPR_2_20190928T143339_20190928T14225_CO01 CS_OFFL_SIR_IOPR_2_20190928T143339_20190928T14225_CO01 CS_OFFL_SIR_IOPR_2_20190928T151055_20190928T151511_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01 Altimeter Range and Backscatter Quality PLRM, COOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20190928T143339_20190928T14225_CO01 CS_OFFL_SIR_IOPR_2_20190928T143339_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161055_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_CO01	CS_OFFL_SIR_IOPR_2_20190928T124400_20190928T124457_C001		, ,
CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_C001 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_C001 CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_C001 CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134929_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001 CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001 CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001 CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001 CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T14325_C001 CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T1425_C001 CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T1425_C001 CS_OFFL_SIR_IOPR_2_20190928T151055_20190928T151511_C001 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_C001	CS_OFFL_SIR_IOPR_2_20190928T124629_20190928T125301_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality Flags and the OCG Altimeter Range and Backscatter Quality	CS_OFFL_SIR_IOPR_2_20190928T125958_20190928T130048_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001 CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001 CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T143349_C001 CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T144225_C001 CS_OFFL_SIR_IOPR_2_20190928T151055_20190928T151511_C001 CS_OFFL_SIR_IOPR_2_20190928T151055_20190928T151511_C001 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_C001 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 Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_C001 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one o	CS_OFFL_SIR_IOPR_2_20190928T133108_20190928T133527_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM COCG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscat	CS_OFFL_SIR_IOPR_2_20190928T134514_20190928T134929_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T144225_C001 CS_OFFL_SIR_IOPR_2_20190928T151055_20190928T151511_C001 CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_C001 and Backscatter Quality PLRM, OCOG Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and 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 Altimet	CS_OFFL_SIR_IOPR_2_20190928T142431_20190928T143200_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T144225_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter	CS_OFFL_SIR_IOPR_2_20190928T143200_20190928T143349_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20190928T151055_20190928T151511_C001 and 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 and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Qu	CS_OFFL_SIR_IOPR_2_20190928T143839_20190928T144225_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the OCOG Altimeter Range and Backscatter Quality Flags have been land the	CS_OFFL_SIR_IOPR_2_20190928T151055_20190928T151511_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPR_2_20190928T161057_20190928T161214_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

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: 18

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: 67

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:

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).

6.2 P2P Product Header Analysis

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

Number of products with errors:

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

6.4 P2P Auxiliary Correction Error Check

6.3 P2P Auxiliary Data File Usage 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:

Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic
	There is an error with the MSS height (solution 1) and the Mean Dynamic
	Topography height (solution 1)
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Mean Sea Surface (1), Mean Dynamic Topography (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
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
Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
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)
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)
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
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)
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)
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)
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)
Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Inere is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
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)
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)
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)
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)
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
	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)

	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS OFFE SIR IOP 2 201909281192838 201909281201817 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_220190928T201817_20190928T210751_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)
	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 OFFE SIR IOP 2 201909281215731 201909281224705 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_220190928T224705_20190928T233644_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190928T020648_20190928T025622_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220190928T052515_20190928T061449_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220190928T084342_20190928T093316_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors:

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: 30

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

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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.