

QA4EO Daily Report for IOP data:

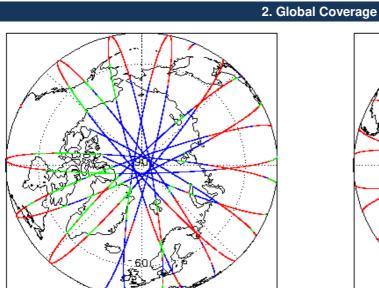
<u>13/08/2022</u>

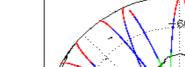
IDEAS-QA4E®

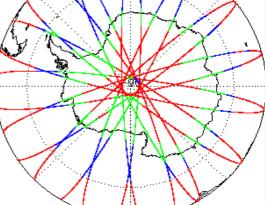
an aut Draduation.	10 4.00 0000	Check	L1 & L2	P2P
Report Production:	16-Aug-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Oseu:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2

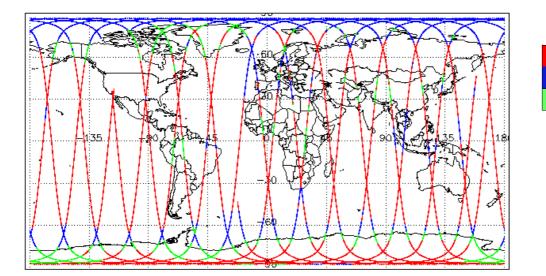
1. Overview

Μ	lission / Instru	ment News
	12-Aug-2022	None
	13-Aug-2022	None
	14-Aug-2022	Nothing planned













3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0 4.3 L1B Auxilary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 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:

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.

6

21

> Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW update.

Number of products with errors:

Product		Description
CS_OFFL_SIR_IOPM1B_20220813T013543_20220813T013851_C001		There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220813T042956_20220813T043646_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220813T081211_20220813T081435_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220813T122035_20220813T123200_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20220813T192907_20220813T193603_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more record
CS_OFFL_SIR_IOPM1B_20220813T204411_20220813T205344_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more record

4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. The table provides the full list of products flagged.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220813T015402_20220813T020839_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220813T024232_20220813T025531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220813T025650_20220813T025857_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220813T123530_20220813T123710_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220813T124152_20220813T125616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220813T141618_20220813T142540_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T012429_20220813T012532_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T013851_20220813T014029_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T022330_20220813T022450_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T030224_20220813T030434_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T053848_20220813T054031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T071750_20220813T071930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T094600_20220813T094652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T130336_20220813T130456_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T144248_20220813T144354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T211104_20220813T211151_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220813T225322_20220813T225554_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220813T083813_20220813T084104_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220813T111625_20220813T112336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220813T120120_20220813T120818_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220813T184149_20220813T184445_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

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.

50

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220813T024232_20220813T025531_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPM_2_20220813T080715_20220813T081159_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T004017_20220813T004204_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T012429_20220813T012532_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_20220813T021829_20220813T022057_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_20220813T025857_20220813T030206_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20220813T030224_20220813T030434_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_20220813T035735_20220813T040127_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_20220813T043906_20220813T044257_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_20220813T044807_20220813T044841_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T053848_20220813T054031_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T085446_20220813T085802_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_20220813T094600_20220813T094652_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T102724_20220813T102838_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T103344_20220813T103700_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20220813T120819_20220813T121056_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_20220813T121249_20220813T121834_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_20220813T130336_20220813T130456_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_20220813T134637_20220813T134954_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_20220813T144248_20220813T144354_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_20220813T162202_20220813T162749_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T171441_20220813T171717_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T202435_20220813T202801_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_20220813T212317_20220813T212548_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T220340_20220813T220701_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_20220813T221219_20220813T221342_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220813T225322_20220813T225554_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records

CS_OFFL_SIR_IOPN_2_20220813T235109_20220813T235227_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_20220813T012532_20220813T013058_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_20220813T022057_20220813T022330_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220813T030434_20220813T031138_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_20220813T032509_20220813T033218_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220813T044258_20220813T044807_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_20220813T062026_20220813T062813_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_20220813T075905_20220813T080636_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_20220813T081547_20220813T081735_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220813T093650_20220813T094437_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_20220813T094437_20220813T094559_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_20220813T111625_20220813T112336_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_20220813T112336_20220813T112643_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_20220813T125616_20220813T130227_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_20220813T130227_20220813T130336_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_20220813T134453_20220813T134637_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220813T143557_20220813T143805_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220813T143915_20220813T144248_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_20220813T161631_20220813T162202_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_20220813T175719_20220813T180220_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_20220813T193603_20220813T194421_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_20220813T211512_20220813T212317_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_20220813T225554_20220813T230342_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

 Number of products with errors:
 6

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220813T013543_20220813T013851_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220813T042956_20220813T043646_C001		There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220813T081211_20220813T081435_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220813T122035_20220813T123200_C001		There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220813T192907_20220813T193603_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20220813T204411_20220813T205344_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

77

Number of products with errors:

Product

CS_OFFL_SIR_IOPM_2_20220812T235733_20220813T000204_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_20220813T000344_20220813T002933_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_20220813T003205_20220813T003731_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_20220813T003751_20220813T004017_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_20220813T004836_20220813T010104_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_20220813T010149_20220813T011857_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_20220813T012259_20220813T012429_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_20220813T014227_20220813T015158_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_20220813T015402_20220813T020839_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_20220813T021133_20220813T021629_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_20220813T022602_20220813T023722_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_20220813T024232_20220813T025531_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_20220813T025650_20220813T025857_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_20220813T033325_20220813T034723_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_20220813T033325_20220813T034723_C001 CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001 CS_OFFL_SIR_IOPM_2_20220813T045020_20220813T045625_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001 CS_OFFL_SIR_IOPM_2_20220813T045020_20220813T045625_C001 CS_OFFL_SIR_IOPM_2_20220813T050259_20220813T052357_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags 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
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001 CS_OFFL_SIR_IOPM_2_20220813T045020_20220813T045625_C001 CS_OFFL_SIR_IOPM_2_20220813T050259_20220813T052357_C001 CS_OFFL_SIR_IOPM_2_20220813T052446_20220813T052620_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001 CS_OFFL_SIR_IOPM_2_20220813T045020_20220813T045625_C001 CS_OFFL_SIR_IOPM_2_20220813T050259_20220813T052357_C001 CS_OFFL_SIR_IOPM_2_20220813T052446_20220813T052620_C001 CS_OFFL_SIR_IOPM_2_20220813T054212_20220813T061001_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001 CS_OFFL_SIR_IOPM_2_20220813T045020_20220813T045625_C001 CS_OFFL_SIR_IOPM_2_20220813T050259_20220813T052357_C001 CS_OFFL_SIR_IOPM_2_20220813T052446_20220813T052620_C001 CS_OFFL_SIR_IOPM_2_20220813T054212_20220813T061001_C001 CS_OFFL_SIR_IOPM_2_20220813T064154_20220813T070558_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range, Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001 CS_OFFL_SIR_IOPM_2_20220813T045020_20220813T045625_C001 CS_OFFL_SIR_IOPM_2_20220813T050259_20220813T052357_C001 CS_OFFL_SIR_IOPM_2_20220813T052446_20220813T052620_C001 CS_OFFL_SIR_IOPM_2_20220813T054212_20220813T061001_C001 CS_OFFL_SIR_IOPM_2_20220813T064154_20220813T070558_C001 CS_OFFL_SIR_IOPM_2_20220813T071421_20220813T071750_C001	and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, 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 have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220813T035100_20220813T035544_C001 CS_OFFL_SIR_IOPM_2_20220813T040335_20220813T042903_C001 CS_OFFL_SIR_IOPM_2_20220813T045020_20220813T045625_C001 CS_OFFL_SIR_IOPM_2_20220813T050259_20220813T052357_C001 CS_OFFL_SIR_IOPM_2_20220813T052446_20220813T052620_C001 CS_OFFL_SIR_IOPM_2_20220813T054212_20220813T061001_C001 CS_OFFL_SIR_IOPM_2_20220813T064154_20220813T070558_C001 CS_OFFL_SIR_IOPM_2_20220813T071421_20220813T071750_C001 CS_OFFL_SIR_IOPM_2_20220813T072221_20220813T075556_C001	 and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Attimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range Quality, OCOG Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG 	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, 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 have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPM_2_20220813T084917_20220813T085446_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_20220813T090159_20220813T093650_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_20220813T094652_20220813T094915_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_20220813T095341_20220813T095440_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_20220813T100659_20220813T102324_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_20220813T102838_20220813T103344_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_20220813T104047_20220813T111624_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_20220813T113838_20220813T120119_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_20220813T121056_20220813T121249_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_20220813T122035_20220813T123200_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_20220813T123442_20220813T123527_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_20220813T124152_20220813T125616_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_20220813T130848_20220813T132609_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_20220813T132806_20220813T134225_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_20220813T134955_20220813T135200_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_20220813T135256_20220813T135703_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_20220813T135933_20220813T141202_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_20220813T141618_20220813T142540_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_20220813T144354_20220813T144446_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_20220813T144811_20220813T150506_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_20220813T151035_20220813T152315_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_20220813T152752_20220813T153606_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_20220813T153918_20220813T155423_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_20220813T155823_20220813T160257_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_20220813T160822_20220813T160823_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_20220813T163705_20220813T170311_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
	1	

CS_OFFL_SIR_IOPM_2_20220813T170925_20220813T171440_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_20220813T171933_20220813T174234_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_20220813T181535_20220813T184149_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_20220813T184851_20220813T185456_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_20220813T185810_20220813T192536_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_20220813T192907_20220813T193603_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_20220813T194806_20220813T202001_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_20220813T202801_20220813T203328_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_20220813T203716_20220813T204119_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_20220813T211210_20220813T211512_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_20220813T212701_20220813T213603_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_20220813T213848_20220813T220005_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_20220813T221749_20220813T223356_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_20220813T224123_20220813T224150_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_20220813T225159_20220813T225234_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_20220813T230342_20220813T233846_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_20220813T234711_20220813T234718_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_20220813T235806_20220814T002949_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_20220813T053516_20220813T053521_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220813T210632_20220813T210642_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_20220813T002933_20220813T003042_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_20220813T030206_20220813T030223_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_20220813T071930_20220813T072221_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_20220813T120120_20220813T120818_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_20220813T213604_20220813T213848_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

77

Product	Test Failed	Description
	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one of
CS_OFFL_SIR_IOPN_2_20220813T011857_20220813T012033_C001	OCOG Backscatter Quality	more records
CS_OFFL_SIR_IOPN_2_20220813T012051_20220813T012259_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_20220813T020950_20220813T021133_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_20220813T022330_20220813T022450_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_20220813T023840_20220813T024027_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_20220813T024027_20220813T024232_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_20220813T025857_20220813T030206_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_20220813T043646_20220813T043810_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_20220813T043906_20220813T044257_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_20220813T050017_20220813T050259_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_20220813T052851_20220813T053122_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_IOPN_2_20220813T062828_20220813T062848_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_20220813T070750_20220813T070917_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_20220813T075752_20220813T075905_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_IOPN_2_20220813T082206_20220813T082312_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_IOPN_2_20220813T084757_20220813T084916_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_20220813T085446_20220813T085802_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_IOPN_2_20220813T094940_20220813T095054_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_IOPN_2_20220813T100435_20220813T100659_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_IOPN_2_20220813T102724_20220813T102838_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_20220813T103344_20220813T103700_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_20220813T120819_20220813T121056_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_20220813T121249_20220813T121834_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_20220813T135201_20220813T135255_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records

CS_OFFL_SIR_IOPN_2_20220813T135703_20220813T135839_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_20220813T142541_20220813T142754_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_20220813T150507_20220813T151034_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_20220813T152552_20220813T152752_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_20220813T153606_20220813T153754_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_20220813T160257_20220813T160643_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_20220813T162202_20220813T162749_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_20220813T174519_20220813T174558_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_20220813T185456_20220813T185620_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_20220813T194422_20220813T194805_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_20220813T202435_20220813T202801_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_20220813T220340_20220813T220701_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_20220813T223356_20220813T223722_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_20220813T234040_20220813T234226_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_20220813T235109_20220813T235227_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T002933_20220813T003042_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T003732_20220813T003737_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T004204_20220813T004835_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T022057_20220813T022330_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T022451_20220813T022601_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T030434_20220813T031138_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T031549_20220813T031628_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T032509_20220813T033218_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T071930_20220813T072221_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T081859_20220813T081919_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T081921_20220813T082032_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

OCCULUMICONCLALAZIONICONS ALLONG LUMINE LUMINE LUMINE DODE Calculated relation DODE Calculated relation CIS OFFL SIR LORP 2 DE22013T100005 2002011T100070 CODE DODE Allonger Taggs, SSM, SVM, And Calculated Calculate Part and Allonger Taggs, SSM, SVM, Allonger Taggs, SSM, S			
CB 045, SP 1069, 2 202013114241 2020131102478, COI Mod Shadaka Coldy Mod S	CS_OFFL_SIR_IOPR_2_20220813T083813_20220813T084104_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Cost, Cost, Sant, Cost, 2, prozessistances prozessistances processistances International devices and an advances of the state of the cost of the state of t	CS_OFFL_SIR_IOPR_2_20220813T084431_20220813T084756_C001	and Backscatter Quality PLRM, 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
Cis_OFFL_SR_OFFL_2_R0200113108000_00200811108000_00200811108000_0020081 and biochemic Cushy IP Net OCCO Cis_OFFL_SR_OFFL_2_R0200113108000_002008110_00200_0010 CCCOO Busices Transport Cushy IP Net Net OCCO Cis_OFFL_SR_OFFL_2_R0200131108000_002008110_00200_0010 CCCOO Busices Transport Cushy IP Net Net OCCO Cis_OFFL_SR_OFFL_2_R0200131108000_002008110_00200_0010 CCCOO Busices Transport Cushy IP Net Net OCCO Cis_OFFL_SR_OFFL_2_R0200131108000_00200811108000_00200 CCCOO Busices Transport Cushy IP Net	CS_OFFL_SIR_IOPR_2_20220813T085802_20220813T090159_C001	and Backscatter Quality PLRM, 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
ODDEL_SPLOPPL_20020813110201 ODDOG Backcaster Quarky File The Coars Attempts Farge, SSIA, SWI and Statiscaster Quarky File CS_OFFL_SR_IOPR_2.0220813110201 Communication of the Coars Attempts Farge and Statiscater Quarky File The Coars Attempts Farge and Statiscater Quarky File CS_OFFL_SR_IOPR_2.0220813110201 Communication of the Coars Attempts Farge and Statiscater Quarky File The Coars Attempts Farge and Statiscater Quarky File CS_OFFL_SR_IOPR_2.02208131110201_022008131110201_02200813110201_02008 The Coars Attempts Farge and Statiscater Quarky File CS_OFFL_SR_IOPR_2_02020813110201_0200_013110201_0200_013110201_0200_013110201_0200_01300_0000 Coars Attempts Farge_SSIA_0000_0000_0000_0000_0000_0000_0000	CS_OFFL_SIR_IOPR_2_20220813T093650_20220813T094437_C001	and Backscatter Quality PLRM, 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
C6_OFR_SIR_OPR_2.0020813T10234_2020813T10278_001 and Babcatter Caulty FLM, CCCCC and Annuer Flangs SIA, SWH and Babcatter Caulty Flag have been and babcatter Caulty Flag have	CS_OFFL_SIR_IOPR_2_20220813T095119_20220813T095335_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CB_OFFL_SIR_UOPR_2_0020013T110107_20220013T1101407_0001 and Backstatter Cuality FLM, OCCO Attracter Range and Backstatter Cuality FLM, OCCO and Coco Attracter Range and Backstatter Cuality FLM, OCCO CB_OFFL_SIR_UOPR_2_00220013T110102_0022013T110216_0001 and Backstatter Cuality FLM, OCCO Attracter Range and Backstatter Cuality FLM, OCCO the Ocea Attracter Range and Backstatter Cuality FLM, OCCO CB_OFFL_SIR_UOPR_2_00220013T112010_0020013T112016_0001 Attracter Range and Backstatter Cuality FLM, OCCO Attracter Range and Backstatter Cuality FLM, OCCO The Ocea Attracter Range and Backstatter Cuality FLM, OCCO CB_OFFL_SIR_UOPR_2_00220013T112010_0020013T112016_00001 Coco Attracter Range and Backstatter Cuality FLM, OCCO CB_OFFL_SIR_UOPR_2_00220013T112010_0020013T1120202_0001 Coco Attracter Range and Backstatter Cuality FLM, Notoco CB_OFFL_SIR_UOPR_2_00220013T112010_00002013T1120202_0001 Coco Attracter Range Cuality FLM, Notoco CB_OFFL_SIR_UOPR_2_00220013T112010_00002013T1120202_0001 Coco Attracter Range Cuality FLM, Notoco CB_OFFL_SIR_UOPR_2_00220013T112010_00002013T1120202_0001 Coco Attracter Range Cuality FLM, Notoco CB_OFFL_SIR_UOPR_2_00220013T112010_0002013T114010_0001 Coco Attracter Range Cuality FLM, Notoco CB_OFFL_SIR_UOPR_2_00220013T114010_0002013T1411010_0001 Coco Attracter Range Cuality FLM, Notoco CB_OFFL_SIR_UOPR_2_00220013T116010_0002013T16010_00001 </td <td>CS_OFFL_SIR_IOPR_2_20220813T102324_20220813T102723_C001</td> <td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td> <td>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records</td>	CS_OFFL_SIR_IOPR_2_20220813T102324_20220813T102723_C001	and Backscatter Quality PLRM, 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
C6. OFFL_SIR_JOPR_2_20220813T110525_0020913T1125910_0001 are flackscatter Cuality FLIM. OCCO. are dealers and are	CS_OFFL_SIR_IOPR_2_20220813T103700_20220813T104047_C001	and Backscatter Quality PLRM, 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
OS_OFFL_SIR_JOPR_2_20220813T12012_02220813T12018_C001 Imm DB Backazetter Cuality PLIM. Imm DB Communities Plants, SSMA, SSMI, Backazetter Cuality PLIM. CS_OFFL_SIR_JOPR_2_20220813T12816_20220813T132022_C001 Comm Attinuer Range, SSMA, SSMI, Backazetter Cuality PLIM. The Ocean Attinuer Range, SSMA, SSMI, and the Backazetter Cuality PLIM. CS_OFFL_SIR_JOPR_2_20220813T12816_20220813T132002_C001 COCID Attinuer Range, SSMA, SSMI, Backazetter Cuality PLIM. The Ocean Attinuer Range, SSMA, SSMI, and the COCID Attinuer Range, SSMA, SSMI, and Backacatter Cuality Flags have beer set for on or ne	CS_OFFL_SIR_IOPR_2_20220813T111625_20220813T112336_C001	and Backscatter Quality PLRM, 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_20220813T152616_20220813T130282_0001 and Belaceatter Quality PLM, OCO Althered Flange and Backscatter Quality The Oco AG Althered Flange and Backscatter Quality PLM CS_OFFL_SIR_IOPR_2_20220813T132802_0001 OCOG Altimeter Range, SSHA, SWH and Belaceatter Quality The OCOG Altimeter Range, SSHA, SWH and Belaceatter Quality CS_OFFL_SIR_IOPR_2_20220813T134632_0001 OCOG Altimeter Range, SSHA, SWH and Belaceatter Quality The OCOG Altimeter Range, SSHA, SWH and Belaceatter Quality CS_OFFL_SIR_IOPR_2_20220813T134632_0001 Ocean Altimeter Range, SSHA, SWH and Belaceatter Quality The Ocean Altimeter Range, SSHA, SWH and Belaceatter Quality CS_OFFL_SIR_IOPR_2_20220813T134632_0001 Ocean Altimeter Range, SSHA, SWH and Belaceatter Quality The Ocean Altimeter Range, SSHA, SWH and Belaceatter Quality CS_OFFL_SIR_IOPR_2_20220813T132315_20220813T132352_0001 Ocean Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220813T132315_20220813T132352_0001 Ocean Altimeter Range Guality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220813T170311_20220813T170524_0001 OCOG Altimeter Range Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220813T170311_20220813T170524_0001 OCOG Altimeter Range Quality The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220813T120312_0220813T170524_0001 OCOG Altimeter Range Quality The OCOG Altimeter R	CS_OFFL_SIR_IOPR_2_20220813T120120_20220813T120818_C001	and Backscatter Quality PLRM, 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
Open Cost Open Cost Open Cost Open Cost Open Cost CS_OFFL_SIR_IOPR_2_20220813T134453_20220813T134637_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or more records The Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or more records CS_OFFL_SIR_IOPR_2_20220813T141618_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or more records CS_OFFL_SIR_IOPR_2_20220813T142315_20220813T145552_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or more records CS_OFFL_SIR_IOPR_2_20220813T16235_20220813T165552_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or more records CS_OFFL_SIR_IOPR_2_20220813T16362_02220813T163704_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or more records CS_OFFL_SIR_IOPR_2_20220813T163704_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or more records CS_OFFL_SIR_IOPR_2_20220813T170311_20220813T170524_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or records CS_OFFL_SIR_IOPR_2_20220813T184149_20220813T16552_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one or records CS_OFFL_SIR_IOPR_2_20220813T16552_C001 Open Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be at for one records <td>CS_OFFL_SIR_IOPR_2_20220813T125616_20220813T130227_C001</td> <td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td> <td>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records</td>	CS_OFFL_SIR_IOPR_2_20220813T125616_20220813T130227_C001	and Backscatter Quality PLRM, 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
GS_OFFL_SIR_IOPR_2_20220813T134453_20220813T146437_20220813T146437_20220813T141618_C001 and Backscatter Quality FLRM_CCOG Alimeter Range and Backscatter Quality Flags have be after one or more records GS_OFFL_SIR_IOPR_2_20220813T14118_20220813T141618_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be after one or more records CS_OFFL_SIR_IOPR_2_20220813T141618_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be after one or more records CS_OFFL_SIR_IOPR_2_20220813T152315_20220813T152552_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be after one or more records CS_OFFL_SIR_IOPR_2_20220813T163628_20220813T152552_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be after one or more records CS_OFFL_SIR_IOPR_2_20220813T163628_20220813T163624_20220813T165628_20220813T165704_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on or more records CS_OFFL_SIR_IOPR_2_20220813T170519_20220813T170524_C001 Cocan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on or more records CS_OFFL_SIR_IOPR_2_20220813T184149_20220813T175522_0001 CCGG Altimeter Range Quality PLRM, CCOG Altimeter Range and Backscatter Quality Flags have been set for on or more records CS_OFFL_SIR_IOPR_2_20220813T184145_C001 CCGA Altimeter Range Quality PLRM, CCOG Altimeter Range and Backscatter Quality Flags have been set for on or more records CS_OFFL_SIR_IOPR_2_20220813T120141_20220813T210516_C001 CCGA Altimeter Range, SSHA	CS_OFFL_SIR_IOPR_2_20220813T132609_20220813T132802_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T141418_20220813T141618_0001 and Backscatter Quality PIEM_OCOG Ind Ocod Allimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T152315_20220813T152552_0001 Allimeter Range, SSHA, SWH and Backscatter Quality Figs The Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Figs CS_OFFL_SIR_IOPR_2_20220813T153054_2020813T152552_0001 OCOG Alimeter Range, Quality PIEM, OCOG The Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T163064_20220813T163704_0001 OCOG Alimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T170311_20220813T170524_0001 OCOG Alimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T175319_20220813T175522_0001 OCOG Alimeter Range, Quality PIEM, OCOG CS_OFFL_SIR_IOPR_2_20220813T175319_20220813T175522_0001 OCOG Backscatter Quality PIEM, OCOG CS_OFFL_SIR_IOPR_2_20220813T1753246_00220813T164445_0001 Alimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for on more records CS_OFFL_SIR_IOPR_2_20220813T1051414_20220813T164445_0001 Alimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T203446_20220813T203716_0001 OCOG Alimeter Range, GSHA, SWH and Backscatter Quality Figs have be set for one or more records	CS_OFFL_SIR_IOPR_2_20220813T134453_20220813T134637_C001	and Backscatter Quality PLRM, 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_20220813T152315_20220813T152352_C001 and Backscatter Quality PLEMM, OCOC Altimeter Range and Backscatter Quality PLEMM, OCOC Altimeter Range and Backscatter Quality FLEMM, OCOC Altimeter Range and Backscatter Qual	CS_OFFL_SIR_IOPR_2_20220813T141418_20220813T141618_C001	and Backscatter Quality PLRM, 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_20220813T163A9_C001 OCOG Backscatter Quality nore records CS_OFFL_SIR_IOPR_2_20220813T170311_20220813T170524_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220813T175319_20220813T175522_C001 OCOG Altimeter Range, Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T184149_20220813T184445_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T184149_20220813T184445_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on ere or ons The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T203716_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on COG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T210312_20220813T210516_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_202	CS_OFFL_SIR_IOPR_2_20220813T152315_20220813T152552_C001	and Backscatter Quality PLRM, 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_20220813T170311_20220813T170524_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocogan Altimeter Range, and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T175319_20220813T175522_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The Ocogan Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T184149_20220813T184445_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220813T203446_20220813T203716_C001 Ocean Altimeter Range Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20220813T210141_20220813T210516_C001 OCCGG Altimeter Range Quality PLRM, OCGG Backscatter Quality The OCCGG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T210812_20220813T210516_C001 OCCGG Altimeter Range Quality PLRM, OCCG Backscatter Quality The OCCGG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T220340_C001 OCCGG Altimeter Range, SSHA, SWH and Backscatter Quality The OCCGG Range and Backscatter Quality Flags have been set for on m	CS_OFFL_SIR_IOPR_2_20220813T163626_20220813T163704_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Backscatter Quality more records OCOG Backscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_IOPR_2_20220813T184149_20220813T184445_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_IOPR_2_20220813T203446_20220813T203716_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_IOPR_2_20220813T210141_20220813T210516_C001 Ocean Altimeter Range Quality PLRM, OCOG CS_OFFL_SIR_IOPR_2_20220813T210141_20220813T210516_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on or ore records CS_OFFL_SIR_IOPR_2_20220813T210516_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on ore records CS_OFFL_SIR_IOPR_2_20220813T210516_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T210812_20220813T211050_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T220340_C001 OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T220340_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T22134	CS_OFFL_SIR_IOPR_2_20220813T170311_20220813T170524_C001	and Backscatter Quality PLRM, 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_20220813T184149_20220813T184445_C001 and Backscatter Quality PLRM, OCOG and Backscatter Quality PLRM, OCOG CS_OFFL_SIR_IOPR_2_20220813T203446_20220813T203716_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG The OCGR Altimeter Range, SSHA, SWH and the Backscatter Quality Flags have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T203446_20220813T203716_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG The OCGR Altimeter Range, SSHA, SWH and the ACSCATT Quality Flags have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T210141_20220813T210516_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T210812_20220813T210516_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T210812_20220813T21050_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T220005_20220813T220340_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records	CS_OFFL_SIR_IOPR_2_20220813T175319_20220813T175522_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T203446_20220813T203716_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCGA Altimeter Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T210141_20220813T210516_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T210812_20220813T211050_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T220005_20220813T220340_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records	CS_OFFL_SIR_IOPR_2_20220813T184149_20220813T184445_C001	and Backscatter Quality PLRM, 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_202208131210141_20220813121056_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPR_2_20220813T210812_20220813T211050_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for on more records CS_OFFL_SIR_IOPR_2_20220813T220005_20220813T220340_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records	CS_OFFL_SIR_IOPR_2_20220813T203446_20220813T203716_C001	and Backscatter Quality PLRM, 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_202208131210812_202208131211050_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPR_2_20220813T220005_20220813T220340_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records	CS_OFFL_SIR_IOPR_2_20220813T210141_20220813T210516_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T220005_20220813T220340_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Interformeter Range, SSHA, SWH and Backscatter Quality Flags had the OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags had backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Altimeter Range Alti	CS_OFFL_SIR_IOPR_2_20220813T210812_20220813T211050_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be as for one or more records.	CS_OFFL_SIR_IOPR_2_20220813T220005_20220813T220340_C001	and Backscatter Quality PLRM, 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
PLRIM PLRIM	CS_OFFL_SIR_IOPR_2_20220813T221342_20220813T221749_C001	and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH 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_20220813T224431_20220813T224757_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, oc	CS_OFFL_SIR_IOPR_2_20220813T224431_20220813T224757_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_IOPR_2_20220813T225554_20220813T230342_C001	and Backscatter Quality PLRM, 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_20220813T233846_20220813T234040_C001	and Backscatter Quality PLRM, 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_20220813T235227_20220813T235806_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
L2 Quality Flags (1 Hz & 1 Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products, v	which are summarised below.	
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for	products over sea ice, which is to be expecte	ed. The number of products with this error flag set is given below.
Number of products with errors: 186		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20 Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measur	rement record. The bit value of this flag indica	ates any problems when set.
> Ocean Retracking Quality Flag: This flag is currently set for products over la	nd and sea ice, but this is to be expected. Th	ne number of products with this error flag set is given below.
Number of products with errors: 58		
L2 Retracking Flags (20 Hz PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM I		
> Ocean Retracking Quality Flag (PLRM): This flag is currently set for product given below.	is IOPR and IOPN products over sea ice, but	this is to be expected. The number of products with this error flag set is
Number of products with errors: 140		
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 en	sure it consists of both an XML header file (.H	HDR) and a NetCDF product file (.nc).
Number of products with errors: 0		
6.2 P2P Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and S	SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
6.3 P2P Auxiliary Data File Usage Check		
	determined baseline and also to aback the ve	lidity of Auviliant Data Filos is correct
Each product is checked for missing Data Set Descriptors with respect to a pre-or Number of products with errors: 0		
6.4 P2P Auxiliary Correction Error Check		
For all products, the auxiliary corrections within the Geophysical Group are check	ked for the default error value (32767).	
Currently, there are some common auxiliary correction errors raised in the		e to surface type. All common flags are summarised in the list below,
followed by a table highlighting any additional issues which may arise from > ECMWF Meteo Corrections: Currently the following corrections are not comp Correction and the U-Wind and V-Wind components of the ECMWF model wind	outed over CONTINENTAL ICE: Dry Troposph	
not reported in the table below.		
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for p Mean See Surface. The error value is surrently set for products ever land and		ed.
> Mean Sea Surface: The error value is currently set for products over land and > Mean Dynamic Topography: The error value is currently set for products over		
> Mean Dynamic ropography. The error value is currently set for products over > Altimetric Wind Speed Error: The error value is currently set for products over		
Number of products with errors: 29		
Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220813T003735_20220813T012711_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_220220813T012711_20220813T021650_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T021650_20220813T030626_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20220813T030626_20220813T035605_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T035605_20220813T044541_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_220220813T044541_20220813T053519_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
	1.46 (4.6.1)	GOT) for one of more records
CS_OFFL_SIR_IOP_2_20220813T053519_20220813T062456_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T053519_20220813T062456_C001 CS_OFFL_SIR_IOP_2_20220813T062456_20220813T071434_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic

Mean Sea Surface (1), Mean Dynamic Topography (1)

CS_OFFL_SIR_IOP_2__20220813T080410_20220813T085349_C001

There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

	1	
CS_OFFL_SIR_IOP_2_20220813T085349_20220813T094325_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T094325_20220813T103304_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T103304_20220813T112240_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20220813T112240_20220813T121218_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T121218_20220813T130154_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T130154_20220813T135133_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T135133_20220813T144109_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T144109_20220813T153047_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T153047_20220813T162024_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T162024_20220813T171002_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20220813T171002_20220813T175939_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T175939_20220813T184917_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T184917_20220813T193853_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T193853_20220813T202832_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T202832_20220813T211808_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20220813T211808_20220813T220747_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_220220813T220747_20220813T225723_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), 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), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_2_20220813T225723_20220813T234701_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_220220813T234701_20220814T003637_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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.

6

30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220813T012711_20220813T021650_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220813T035605_20220813T044541_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_2_20220813T080410_20220813T085349_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_2_20220813T121218_20220813T130154_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220813T184917_20220813T193853_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220220813T202832_20220813T211808_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

6.6	P2P	Measurement	Quality	Flag	Check
-----	-----	-------------	---------	------	-------

P2P Quality Flags (20 Hz)

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

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

Number of products with errors:	30
P2P Quality Flags (20 Hz PLRM)	
Since the P2P Quality Flags are copied directly from below.	m the L2 Quality Flags, please see Section 5.6 for the full list of products affected. The number of P2P products affected is given
Number of products with errors:	29
P2P Quality Flags (1 Hz & 1 Hz PLRM)	
Since the P2P Quality Flags are copied directly fro below.	m the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

27

30

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.

0

2194

Number of products with errors:

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	160	160	2	158	0
SIR_IOPR1B	110	97	3	94	0
SIR_IOPN1B	97	110	0	110	0
SIR_IOPM_2	160	160	109	51	0
SIR_IOPR_2	110	97	36	61	0
SIR_IOPN_2	97	110	34	76	0
SIR_IOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

To

at Danassingtian K

Number of QCC reports with warnings

Product Type BCSHNCDF SIR_IOPM1B 158 SIR_IOPM2 0 SIR_IOPN2 0 Product Type RMSSGHOPC SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 1 SIR_IOPM2 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN3 0 SIR_IOPN4 39 SIR_IOPN4 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0	0 2 0 0 0 3	MVIOEPNCDF 0 38 0 30 0 45 RPEPOPFDLRMNCD 0 34 0	NUMber of occurrences MVIONCDF 0 10 0 0 11 0 12 14 0 3	RBSZOPOEPFDNCDF 0 43 0 25 0 39 ARNCC RPEPOPFDPLRMSINN 0 0 21 0 30 0 433 0 30 0 30 0 65	0 0 28 0 37	CE RBSZOPOEPNCDF 0 34 0 15 0 26 RPEPOPFDSINNCD 0 0 0 0 0 0 0 0 0 RSSHAONCDF 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 7
SIR_IOPM_2 0 SIR_IOPN1B 94 SIR_IOPN2 0 SIR_IOPR2 0 SIR_IOPR1B 106 SIR_IOPR2 0 Product Type RMSSGHOPC SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN2 1 SIR_IOPN2 0 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPM1B 0 SIR_IOPM2 29 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN1B 0 SIR_IOPM1B 0 SIR_IOPR1B 0 </th <th>36 0 7 0 39 NCDF RNELPOTONCDF 0 2 0 0 0 0 0 3 3 VCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>38 0 30 0 45 RPEPOPFDLRMNCD 0 0 34 0 0 0 0 0 0 0 0 0 0 0 0 24 0</th> <th>0 0 F RPEPOPFDPLRMS. 0 0 0 0 0 0 0 0 0 0 0 0 45 </th> <th>43 0 25 0 39 ARNCC RPEPOPFDPLRMSINN 0 0 0 21 0 0 21 0 0 0 21 0 0 0 21 0 0 0 30 0 45 0 0</th> <th>0 28 0 37 ICDI RPEPOPFDSARNCDF 0 0 0 0 0 0 0 56 RSSHAOFDPLRMNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0</th> <th>0 15 0 26 RPEPOPFDSINNCD 0 0 0 30 0 0 RSSHAONCDF 0 3 0 3 0 3 9 3 9</th>	36 0 7 0 39 NCDF RNELPOTONCDF 0 2 0 0 0 0 0 3 3 VCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	38 0 30 0 45 RPEPOPFDLRMNCD 0 0 34 0 0 0 0 0 0 0 0 0 0 0 0 24 0	0 0 F RPEPOPFDPLRMS. 0 0 0 0 0 0 0 0 0 0 0 0 45	43 0 25 0 39 ARNCC RPEPOPFDPLRMSINN 0 0 0 21 0 0 21 0 0 0 21 0 0 0 21 0 0 0 30 0 45 0 0	0 28 0 37 ICDI RPEPOPFDSARNCDF 0 0 0 0 0 0 0 56 RSSHAOFDPLRMNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	0 15 0 26 RPEPOPFDSINNCD 0 0 0 30 0 0 RSSHAONCDF 0 3 0 3 0 3 9 3 9
SIR_IOPN1B 94 SIR_IOPN2 0 SIR_IOPR1B 106 SIR_IOPR1B 106 SIR_IOPR1B 0 Product Type RMSSGHOPO SIR_IOPM1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 0 Product Type RPEPOPLRM SIR_IOPN1B 0 SIR_IOPM1B 0 SIR_IOPM2 29 SIR_IOPM1B 0 SIR_IOPN2 0 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPR2 0 SIR_IOPR2 0 SIR_IOPR2 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR2 43	0 7 0 39 NCDF RNELPOTONCDF 0 2 0 0 0 0 0 3 3 VCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 0 45	0 0 F RPEPOPFDPLRMS. 0 0 0 0 0 0 0 0 0 0 0 0 45	0 25 0 39 ARNCU RPEPOPFDPLRMSINN 0 0 21 0 0 21 0 0 21 0 0 30 0 30 0 45 0	0 28 0 37 ICDI RPEPOPFDSARNCDF 0 0 0 0 0 0 0 56 RSSHAOFDPLRMNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	0 15 0 26 RPEPOPFDSINNCD 0 0 0 30 0 0 RSSHAONCDF 0 3 0 3 0 3 9 3 9
SIR_IOPN_2 0 SIR_IOPR1B 106 SIR_IOPR2 0 Product Type RMSSGHOPC SIR_IOPM1B 0 SIR_IOPM2 1 SIR_IOPN2 0 SIR_IOPM2 29 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 0 SIR_IOPM1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0	7 0 39 NCDF RNELPOTONCDF 0 2 0 0 0 0 0 0 0 3 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 0 45 RPEPOPFDLRMNCD 0 34 0 0 0 0 0 0 0 RPEPOPSINNCDF 0 0 0 24 0	0 0 F RPEPOPFDPLRMS. 0 0 0 0 0 0 0 0 0 0 0 0 45	25 0 39 ARNCE RPEPOPFDPLRMSINN 0 0 21 0 21 0 0 21 0 0 0 0 RSSHAOFDNCDF 0 30 0 45 0	0 37 ICDI RPEPOPFDSARNCDF 0 0 0 0 0 56 RSSHAOFDPLRMNCDF 0 0 0 0 52 0 0	0 15 0 26 RPEPOPFDSINNCDI 0
SIR_IOPN_2 0 SIR_IOPR1B 106 SIR_IOPR2 0 Product Type RMSSGHOPC SIR_IOPM1B 0 SIR_IOPM2 1 SIR_IOPN2 0 SIR_IOPM1B 0 SIR_IOPM2 29 SIR_IOPM1B 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0	39 NCDF RNELPOTONCDF 0 2 0 0 0 0 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	0 45 RPEPOPFDLRMNCD 0 34 0 0 0 0 0 0 0 RPEPOPSINNCDF 0 0 0 24 0	0 0 F RPEPOPFDPLRMS. 0 0 0 0 0 0 0 0 0 0 0 0 45	0 39 ARNCC RPEPOPFDPLRMSINN 0 0 21 0 21 0 0 0 0 0 0 0 0 0 0 0 0 30 0 0 45 0 0	0 37 ICDI RPEPOPFDSARNCDF 0 0 0 0 0 56 RSSHAOFDPLRMNCDF 0 0 0 0 52 0 0	0 26 RPEPOPFDSINNCD 0 0 0 0 0 0 0 0 0 0 0 3 0 3 0 3 9
SIR_IOPR_2 0 Product Type RMSSGHOPC SIR_IOPM1B 0 SIR_IOPM2 1 SIR_IOPM2 1 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 Product Type RPEPOPLRM SIR_IOPM2 29 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPN2 0 SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	39 NCDF RNELPOTONCDF 0 2 0 0 0 0 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	45 RPEPOPFDLRMNCD 0 34 0 0 0 0 0 0 0 0 0 0 0 24 0 0	RPEPOPFDPLRMS. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 0 14 0	39 ARNCC RPEPOPFDPLRMSINN 0 0 21 0 21 0 0 0 8 8 8 8 8 8 8 8 8 8 8 8 8	37 ICDI RPEPOPFDSARNCDF 0 0 0 0 0 0 56 ISSHAOFDPLRMNCDF 0 0 0 0 0 0 0 0 0 0 56 ISSHAOFDPLRMNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	26
Product Type RMSSGHOPC SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 0 Product Type RPEPOPLRM SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM1B 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 27 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	NCDF RNELPOTONCDF 0 2 0 0 0 0 0 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RPEPOPFDLRMNCD 0 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 24 0	F RPEPOPFDPLRMS. 0 0 0 0 0 0 45 FASSECONCDF 0 7 0 14 0	ARNCI RPEPOPFDPLRMSINN 0 0 2 0 21 0 0 0 21 0 0 0 0 0 0 0 0 0 0	ICDI RPEPOPFDSARNCDF 0 0 0 0 0 0 0 0 0 0 56	RPEPOPFDSINNCDI 0 0 0 0 0 0 0 0 0 0 0 0 0 30 0 33 0 39
SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPR1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 0 Product Type RSWHOEPFE SIR_IOPM2 0 SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPM2 27 SIR_IOPR1B 0 SIR_IOPR2 43	0 2 0 0 0 3 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	0 34 0 0 0 0 0 0 RPEPOPSINNCDF 0 0 0 24 0	0 0 0 45 RSSBCONCDF 0 7 0 14 0	0 0 21 0 0 0 RSSHAOFDNCDF 0 30 0 45 0	0 0 0 0 56 RSSHAOFDPLRMNCDF 0 0 0 52 0	0 0 0 30 0 0 0 RSSHAONCDF 0 3 0 39
SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPR1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 0 Product Type RSWHOEPFE SIR_IOPM2 0 SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPM2 27 SIR_IOPR1B 0 SIR_IOPR2 43	0 2 0 0 0 3 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	0 34 0 0 0 0 0 0 RPEPOPSINNCDF 0 0 0 24 0	0 0 0 45 RSSBCONCDF 0 7 0 14 0	0 0 21 0 0 0 RSSHAOFDNCDF 0 30 0 45 0	0 0 0 0 56 RSSHAOFDPLRMNCDF 0 0 0 52 0	0 0 0 30 0 0 0 RSSHAONCDF 0 3 0 39
SIR_IOPM_2 1 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPM2 39 SIR_IOPN2 27 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR2 43	2 0 0 0 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0	34 0 0 0 0 0 0 0 0 24 0 0	0 0 0 45 RSSBCONCDF 0 7 0 14 0	0 0 21 0 0 0 RSSHAOFDNCDF 0 30 0 45 0	56	0 0 30 0 0 RSSHAONCDF 0 3 3 0 39
SIR_IOPN1B 0 SIR_IOPN_2 0 SIR_IOPN1B 0 SIR_IOPR1B 0 SIR_IOPR2 0 Product Type RPEPOPLRM SIR_IOPM1B 0 SIR_IOPN2 29 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPN2 0 SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	0 0 0 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 24 0	0 0 0 45 885BCONCDF 0 7 0 14 0	0 21 0 0 8SSHAOFDNCDF 0 30 0 45 0	56	0 30 0 0 RSSHAONCDF 0 3 0 39
SIR_IOPN_2 0 SIR_IOPR1B 0 SIR_IOPR2 0 Product Type RPEPOPLRM SIR_IOPM1B 0 SIR_IOPM2 29 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPR12 0 SIR_IOPR2 0 SIR_IOPR2 0 SIR_IOPR2 0 SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	0 0 3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0	0 0 0 RPEPOPSINNCDF 0 0 0 0 24 0	45 RSSBCONCDF 0 7 0 14 0	21 0 0 RSSHAOFDNCDF 0 30 0 45 0	56	30 0 0 RSSHAONCDF 0 3 0 39
SIR_IOPR1B 0 SIR_IOPR2 0 Product Type RPEPOPLRM SIR_IOPM1B 0 SIR_IOPM2 29 SIR_IOPM2 29 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 Product Type RSWHOEPFL SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM2 27 SIR_IOPR1B 0 SIR_IOPR2 43	3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 24 0	45 RSSBCONCDF 0 7 0 14 0	0 0 RSSHAOFDNCDF 0 30 0 45 0	56	0 0 RSSHAONCDF 0 3 0 39
SIR_IOPR_2 0 Product Type RPEPOPLRM SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN_2 0 SIR_IOPN1B 0 SIR_IOPR_2 0 Product Type RSWHOEPFE SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	3 NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0 0 0 0 0	0	45 RSSBCONCDF 0 7 0 14 0	0	56	0 RSSHAONCDF 0 3 0 39
Product Type RPEPOPLRM SIR_IOPM1B 0 SIR_IOPM2 29 SIR_IOPM2 0 SIR_IOPM1B 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 SIR_IOPM2 0 Product Type RSWHOEPFE SIR_IOPM2 39 SIR_IOPM1B 0 SIR_IOPM2 27 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	NCDF RPEPOPSARNCDF 0 0 0 0 0 0 0 0 0	RPEPOPSINNCDF 0 0 0 24 0	RSSBCONCDF 0 7 0 14 0	RSSHAOFDNCDF 0 30 0 45 0	RSSHAOFDPLRMNCDF 0 0 0 52 0	RSSHAONCDF 0 3 0 39
Product Type RSWHOEPH1B SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0	0 0 0 0 0 0	0 0 0 24 0	0 7 0 14 0	0 30 0 45 0	0 0 0 52 0	0 3 0 39
Product Type RSWHOEPHTB SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR2 43	0 0 0 0 0 0	0 0 0 24 0	0 7 0 14 0	0 30 0 45 0	0 0 0 52 0	0 3 0 39
SIR_IOPM_2 29 SIR_IOPN1B 0 SIR_IOPN2 0 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR2 0 Product Type RSWHOEPFE SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR2 43	0 0 0 0	0 0 24 0	7 0 14 0	30 0 45 0	0 0 52 0	3 0 39
SIR_IOPN1B 0 SIR_IOPN_2 0 SIR_IOPR1B 0 SIR_IOPR_2 0 Product Type RSWHOEPFC SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPM1B 0 SIR_IOPM1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	0	24 0	0	0 45 0	0	
SIR_IOPN_2 0 SIR_IOPR1B 0 SIR_IOPR2 0 Product Type RSWHOEPFL SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR2 43	0	24 0	0	45 0	0	
SIR_IOPR1B 0 SIR_IOPR2 0 Product Type RSWH0EPFC SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPR1B 0 SIR_IOPR2 43	0	0	0	0	0	
SIR_IOPR_2 0 Product Type RSWH0EPFE SIR_IOPM1B 0 SIR_IOPM_2 39 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR1B 0 SIR_IOPR2 43		-	-			0
Product Type RSWHOEPFC SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPN1B 0 SIR_IOPR12 27 SIR_IOPR1B 0 SIR_IOPR2 43	42	0	3	65	47	7
SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR2 43						1.
SIR_IOPM1B 0 SIR_IOPM2 39 SIR_IOPN1B 0 SIR_IOPN2 27 SIR_IOPR1B 0 SIR_IOPR2 43		NARE ROUGERSUARE	0000	00070511511055	0007051055	
SIR_IOPM_2 39 SIR_IOPN1B 0 SIR_IOPN_2 27 SIR_IOPR1B 0 SIR_IOPR2 43		NCDF RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPN1B 0 SIR_IOPN_2 27 SIR_IOPR1B 0 SIR_IOPR2 43	0	0	0	0	0	
SIR_IOPN_2 27 SIR_IOPR1B 0 SIR_IOPR_2 43	0	2	0	0	0	
SIR_IOPR1B 0 SIR_IOPR_2 43	0	0	0	46	1	
SIR_IOPR_2 43	30	15	1	0	0	
	0	0	0	110	5	
Product Type IOHHMOOR	53	2	2	0	0	
	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN	
SIR IOP 2 16	29	29	5	29	18	29
Product Type RMSSGHOPC	NCDF RNELPOTONCDF	RPEPOPFDPLRMSIN	NCDIRPEPOPFDSINNCD	OF RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
SIR_IOP_2_ 1	4	19	29	23	16	29
Desident Trans DOOLLA OF DE	DWNODE DECHAONODE	DOWHOEDEDMODE				
Product Type RSSHAOFDP		RSWHOEPFDNCDF			SPHLPQWNCDF	-
SIR_IOP_2_ 20		29	19	14	29	
Product Type -	27					
SIR IOP 2	-	-	-	-	-	-

Test Description Key:	-	
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RMSSGHOPONCDF	RangeMSSGeoidHeightOPOceanNetCDF	The MSS/geoid height should be between -106000mm and 88000mm (or missing) for surface type = ocean - NetCDF
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean

ExcludingPolarOPFD2PLRMSARNetCDF ExcludingPolarOPFD2PLRMSINNetCDF ExcludingPolarOPFD2SARNetCDF ExcludingPolarOPFD2SINNetCDF ExcludingPolarOPLRMNetCDF ExcludingPolarOPSARNetCDF ExcludingPolarOPSINNetCDF ExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPFD2SARNetCDF ExcludingPolarOPFD2SINNetCDF ExcludingPolarOPLRMNetCDF ExcludingPolarOPSARNetCDF ExcludingPolarOPSINNetCDF	and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPFD2SINNetCDF ExcludingPolarOPLRMNetCDF ExcludingPolarOPSARNetCDF ExcludingPolarOPSINNetCDF	and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPLRMNetCDF ExcludingPolarOPSARNetCDF ExcludingPolarOPSINNetCDF	and 70 degrees The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPSARNetCDF	and 70 degrees The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
ExcludingPolarOPSINNetCDF	and 70 degrees The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	and 70 degrees
BiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
eHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
eHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
eHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
WaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
WaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
WaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
er1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
erstep i ODminie(GDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter
erStepTODNetCDF	
	StepTODHRNetCDF

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0