

QA4EO Daily Report for IOP data:

<u>31/10/2021</u>

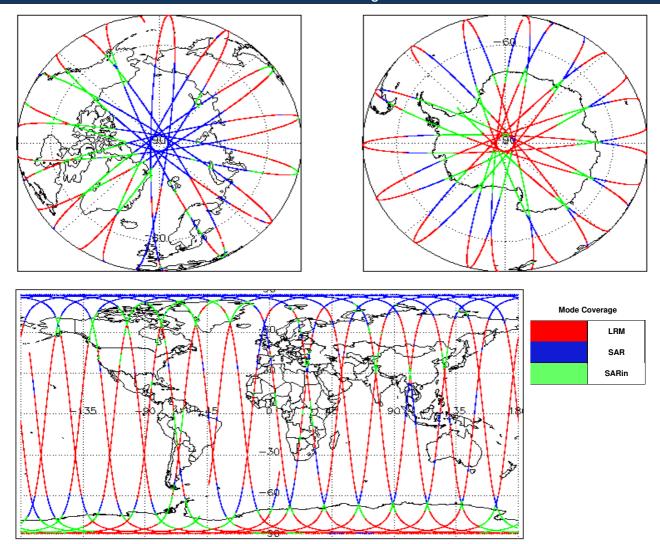
	00 Nev 0001	Check	L1 & L2	P2P
Report Production:	03-Nov-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Cruce Set Occore Braccocore	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data 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 7.1 and 7.2	See Section 7.1 and 7.2

1. Overview

Mission / Instrument News 30-Oct-2021 None 31-Oct-2021 None

01-Nov-2021 Nothing planned

2. Global Coverage



3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). 0

4.2 L1B Product Header Analysis	
For all products, a series of pre-defined checks are performed on the N	IPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently se OSARIn chains. A modification is required in the next release.	at all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and
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 measuremer	nt record. The bit value of this flag indicates any problems when set.
Number of products with errors: 0	
4.5 L1B Measurement Confidence Data Check	
CryoSat L1B data includes a measurement confidence flag for each me	easurement record. The bit value of this flag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOP	R products due to a configuration issue. This is being investigated and will be updated in the next SW update.
Number of products with errors: 1	

CS_OFEL_SIB_IOPM1B_202110311224346_202110311224503_C001IPower scaling error	Product	Test Failed	Description
records	CS_OFFL_SIR_IOPM1B_20211031T224346_20211031T224503_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

26

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211031T042810_20211031T044513_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211031T062004_20211031T064259_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211031T105252_20211031T105427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211031T144404_20211031T145206_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T024353_20211031T024810_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T042247_20211031T042401_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T042541_20211031T042810_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T050032_20211031T050133_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T060211_20211031T060432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T073708_20211031T073735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T105202_20211031T105251_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T154846_20211031T155236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T164708_20211031T165321_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T172907_20211031T173310_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T204204_20211031T204826_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211031T214635_20211031T214754_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T005629_20211031T010345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T053259_20211031T054148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T055600_20211031T060210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T073735_20211031T074152_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T083605_20211031T083823_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T105532_20211031T110319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T133242_20211031T133654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T145206_20211031T145309_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T213432_20211031T213653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211031T231114_20211031T231637_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors:
0

5.2 L2 Product Header Analysis

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

5.3 L2 Auxiliary Data File Usage Check

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

 Number of products with errors:
 0

5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

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

52

> 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_20211031T191953_20211031T192253_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_20211031T000718_20211031T000843_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_20211031T001354_20211031T001658_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_20211031T015257_20211031T015816_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_20211031T024353_20211031T024810_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_20211031T032734_20211031T033009_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_20211031T042247_20211031T042401_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_20211031T042541_20211031T042810_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211031T050032_20211031T050133_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_20211031T050237_20211031T050832_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211031T060211_20211031T060432_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_20211031T064452_20211031T064644_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_20211031T074153_20211031T074629_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_20211031T082432_20211031T082610_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211031T092237_20211031T092242_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211031T100424_20211031T100809_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_20211031T105202_20211031T105251_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20211031T114358_20211031T114714_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_20211031T123449_20211031T123540_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_20211031T133136_20211031T133242_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_20211031T155247_20211031T155420_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_20211031T164708_20211031T165321_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_20211031T182629_20211031T182948_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_20211031T190743_20211031T191133_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211031T204204_20211031T204826_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_20211031T214635_20211031T214754_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

CS_OFFL_SIR_IOPN_2_20211031T224507_20211031T224536_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211031T231638_20211031T231805_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20211031T232328_20211031T232638_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_20211031T005629_20211031T010345_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_20211031T010345_20211031T010557_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_20211031T023817_20211031T024240_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_20211031T024240_20211031T024353_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_20211031T041617_20211031T042108_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_20211031T042108_20211031T042247_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_20211031T055600_20211031T060210_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_20211031T073309_20211031T073552_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211031T073735_20211031T074152_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_20211031T091545_20211031T092237_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_20211031T092242_20211031T092311_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211031T105532_20211031T110319_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_20211031T123540_20211031T124350_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_20211031T141507_20211031T142229_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_20211031T152948_20211031T153133_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211031T155420_20211031T155941_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_20211031T173310_20211031T173807_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_20211031T173807_20211031T174009_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211031T191133_20211031T191657_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_20211031T204826_20211031T205725_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_20211031T222819_20211031T223611_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_20211031T223912_20211031T224119_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20211031T224536_20211031T224647_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211031T224346_20211031T224503_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

94

Number of products with errors:

Product

Description

CS_OFFL_SIR_IOPM_2_20211030T234527_20211031T000312_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_20211031T000843_20211031T001354_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_20211031T002057_20211031T005504_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_20211031T010557_20211031T010814_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_20211031T011829_20211031T012311_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_20211031T012352_20211031T014245_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_20211031T020030_20211031T023406_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_20211031T023500_20211031T023504_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_20211031T024824_20211031T030736_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_20211031T030858_20211031T032120_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_20211031T033009_20211031T033206_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_20211031T033338_20211031T033709_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_20211031T033943_20211031T035428_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_20211031T035631_20211031T040552_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_20211031T042810_20211031T044513_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_20211031T045313_20211031T045838_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_20211031T050134_20211031T050236_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_20211031T050832_20211031T051132_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_20211031T051138_20211031T051611_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_20211031T051923_20211031T053259_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_20211031T054502_20211031T054543_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_20211031T061130_20211031T061719_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_20211031T061736_20211031T061841_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_20211031T062004_20211031T064259_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_20211031T064644_20211031T065510_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_20211031T065856_20211031T072323_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_20211031T072655_20211031T073128_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_20211031T075619_20211031T082206_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_20211031T082856_20211031T083312_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_20211031T083823_20211031T090249_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_20211031T090418_20211031T090619_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_20211031T091311_20211031T091545_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_20211031T092922_20211031T095947_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_20211031T100809_20211031T101352_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_20211031T101732_20211031T102132_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_20211031T105252_20211031T105427_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_20211031T110709_20211031T113953_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_20211031T114714_20211031T115226_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_20211031T115758_20211031T121352_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_20211031T123202_20211031T123330_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_20211031T124350_20211031T131430_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_20211031T131441_20211031T131907_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_20211031T132721_20211031T133135_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_20211031T133654_20211031T140101_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_20211031T140231_20211031T140936_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_20211031T141237_20211031T141349_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_20211031T142401_20211031T142802_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_20211031T142854_20211031T143651_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_20211031T144131_20211031T144319_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_20211031T144323_20211031T144346_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_20211031T144404_20211031T145206_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_20211031T145310_20211031T145823_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_20211031T150054_20211031T150614_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_20211031T151725_20211031T152948_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_20211031T153133_20211031T154017_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_20211031T154144_20211031T154846_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_20211031T161121_20211031T162040_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_20211031T162254_20211031T163007_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_20211031T163126_20211031T163711_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_20211031T164020_20211031T164515_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_20211031T164551_20211031T164707_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_20211031T165348_20211031T165650_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_20211031T171116_20211031T171546_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_20211031T171550_20211031T171930_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_20211031T180126_20211031T181554_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_20211031T182002_20211031T182444_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_20211031T183217_20211031T185412_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_20211031T185422_20211031T185802_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_20211031T193051_20211031T195503_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_20211031T195946_20211031T200344_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_20211031T201108_20211031T203726_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_20211031T204045_20211031T204204_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_20211031T210607_20211031T210840_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_20211031T211532_20211031T213432_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_20211031T213817_20211031T214259_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_20211031T214304_20211031T214635_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_20211031T215156_20211031T222424_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_20211031T223611_20211031T223912_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_20211031T230331_20211031T230716_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_20211031T230857_20211031T231113_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_20211031T231805_20211031T232327_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_20211031T233051_20211031T235133_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_20211031T235419_20211101T000552_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_20211031T101353_20211031T101507_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_20211031T204204_20211031T204826_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_20211031T230208_20211031T230330_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_20211031T231638_20211031T231805_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_20211031T051756_20211031T051923_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_20211031T073309_20211031T073552_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_20211031T073735_20211031T074152_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_20211031T104851_20211031T104957_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_20211031T160007_20211031T160133_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_20211031T195503_20211031T195726_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_20211031T231114_20211031T231637_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.

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L2 Quality Flags (20Hz PLRM)

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20211031T001354_20211031T001658_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_20211031T014743_20211031T015041_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_20211031T015257_20211031T015816_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_20211031T024353_20211031T024810_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_20211031T032734_20211031T033009_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_20211031T040552_20211031T040922_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_20211031T042541_20211031T042810_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_20211031T044513_20211031T044954_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_20211031T051611_20211031T051755_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_20211031T060211_20211031T060432_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_20211031T060459_20211031T060644_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.

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		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The Ocean Altimeter 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 Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211031T075228_20211031T075436_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211031T083313_20211031T083604_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211031T092311_20211031T092922_C001	Altimeter Bange and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH 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_20211031T100424_20211031T100809_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211031T104522_20211031T104538_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211031T105202_20211031T105251_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211031T110319_20211031T110444_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211031T150843_20211031T151026_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	OCOG Backscatter Quality	The OCOG 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 Range and Backscatter Quality Flags have been set for one or more records.
		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

Operation Operation Operation 0.0011 Section Section <td< th=""><th></th><th>OCOG Altimeter Range Quality PLRM,</th><th>The OCOG Range and Backscatter Quality Flags have been set for one</th></td<>		OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one
cit City End	CS_OFFL_SIR_IOPN_2_20211031T172907_20211031T173310_C001	OCOG Backscatter Quality	5 5 5
UNIT ON LOW CALL ON LOW CALL THE DATE CALL ODCO Basecular Call or more meads. OCCOMPLICATION CALL ODCO Basecular Call See on Annue Trans.	CS_OFFL_SIR_IOPN_2_20211031T182629_20211031T182948_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
BB, GRE, SRE UPRI, 2. 201101110202, 10211011102000 and the second of t	CS_OFFL_SIR_IOPN_2_20211031T190535_20211031T190657_C001		
CL_PRL_BRL_DRU_2_X01100110658_001101110664_001 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X01100110066_001101110001_0001 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X011001120066_0011011101001_0001 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X011001120066_00110111010110 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X0110011210000_000110111010110 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X0110011210000_00011011101011010 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X0110011210000_000110110110110110101 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X0110011210000_00011011011010101 cmc Descarer During PLAIN DOG cmc Descarer During PLAIN DOG CS_CPRL_BRL_DRU_2_X0110011210000_000110101101010101 cmc Descarer During PLAIN DOG cmc Dog PLAIN DOG CS_CPRL_BRL_DRU_2_X0110011210000_00011010110101010101010101	CS_OFFL_SIR_IOPN_2_20211031T190743_20211031T191133_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Construction Construction Construction Construction Construction Construction Construction The Construction	CS_OFFL_SIR_IOPN_2_20211031T195726_20211031T195945_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2_0FFL_SR_UON_2_2011001T0484_2011001T0484_2011001T0484_2001 Image address control in the second control in	CS_OFFL_SIR_IOPN_2_20211031T200345_20211031T200349_C001		
CG_CEFL_SIR_CEPL_2_R011001713003_2011031713007_C001 mit State-Center Duning PLAN. COOL Amore an Association Duning PLAN. COOL Amore and State-Center Duning PLAN. COOL Amor	CS_OFFL_SIR_IOPN_2_20211031T204204_20211031T204826_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_DFH_SH_20PL_2.0211011703488_0011 DCCD Besocater Guily or more records. CS_OFFL_SH_UPPL_2.0211011702203_00111011702203_0011 CCCO Altriver Regres SHA_SHY and Backacater Guily FLML. The OCCO Farge and Backacater Guily Flag have been set for one one more seconds. CS_OFFL_SH_UPPL_2.0211011702032_00211011700102_00211011700103_0021 CCCO Altriver Regres SHA_SHY and Backacater Guily Flag. The OCCO Farge and Backacater Guily Flag have been PLAN CS_OFFL_SH_UPPL_2.0211011700103_0021 CCCO Altriver Regres Altriver PLAN The OCCO Farge and Backacater Guily Flag have been PLAN CS_OFFL_SH_UPPL_2.0211011700103_0021 CCCO Altriver Regres Altriver PLAN The OCCO Altriver Regres Altriver PLAN CS_OFFL_SH_UPPL_2.0211011700103_0021 CCCO Altriver Regres Altriver PLAN The OCCO Altriver Regres Altriver PLAN CS_OFFL_SH_UPPL_2.0211011701036_0021 CCCO Altriver Regres Altriver PLAN The OCCO Altriver Regres Altriver PLAN CS_OFFL_SH_UPPL_2.0211011701036_0021 CCCO Altriver Regres Altriver Regres Altriver PLAN The OCCO Altriver Regres Altriver PLAN CS_OFFL_SH_UPPL_2.0211011701036_0021 CCCO Altriver Regres Altriv	CS_OFFL_SIR_IOPN_2_20211031T213653_20211031T213817_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCC Description DCCC Relational for Quark The Ocean Alimeter Renge, SSHA, SWH and Backscatter Quarky Flags, Not Quark Flags, SSHA, SWH and Backscatter Quarky Flags, SSHA, SWH and Backscatter Quarky Flags, SSHA, SWH and Backscatter Quarky Flags, Not Quark Flags, SSHA, SWH and Backscatter Quarky Flags, Not Quark Flags, SSHA, SWH and Backscatter Quarky Flags, Not Quark Flags, SSHA, SWH and Backscatter Quarky Flags, Not Quark Flags, SSHA, SWH and Backscatter Quarky Flags, Not Plags, SSHA, SWH and Backscatter Quarky Flags, Not Plags, SSHA, SWH and Backscatter Quarky Flags, Not Plags, Not P	CS_OFFL_SIR_IOPN_2_20211031T214635_20211031T214754_C001		
CS_OFFL_SIR_IOPR_2_20211031T000312_00211001T020057_0001 and Basesate Quality PLAN_COCOL PLAN_COCOL PLAN_DECOLOR PLA	CS_OFFL_SIR_IOPN_2_20211031T232328_20211031T232638_C001		
C6_OFFL_SIR_JOPR_2_20211031T002557_C001 and Backstater Cuality PLNA_COCG The Oxean Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. C6_OFFL_SIR_JOPR_2_20211031T002629_20211031T01054_0011 Cock_Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. The Oxean Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. C6_OFFL_SIR_JOPR_2_20211031T01054_0011 Cock Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. The Oxean Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. C6_OFFL_SIR_JOPR_2_20211031T011642_02211031T011652_0011 Cock Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. The Oxean Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. C6_OFFL_SIR_JOPR_2_20211031T011642_02211031T011624_00010 Cocker Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. The Oxean Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more stocks. C6_OFFL_SIR_JOPR_2_20211031T016242_0201001 Cocker Altimeter Range Cality PLIN, OCCA The Oxean Altimeter Range, SSHA_SWH and Backstater Cuality Plags have been set for one more more discuss. C6_OFFL_SIR_JOPR_2_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026287_20211031T026280_20211031T026287_20211031T026287_20211031T026287_2021	CS_OFFL_SIR_IOPR_2_20211031T000312_20211031T000717_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_JOPR_2_20211031T006928_20211001T010345_C001 Indextaget Cubity PLRM. Indextaget Cubity PLRM. GS_OFFL_SIR_JOPR_2_20211031T01645_20211001T01057_C001 Indextaget Cubity PLRM. The Occan Altimeter Range, SSHA, SWH and Backscatter Oually Flags have been set for one more records. GS_OFFL_SIR_JOPR_2_20211031T01654_20211001T011628_C001 OCCG Altimeter Range Cubity PLRM. The OCCAN Altimeter Range, SSHA, SWH and Backscatter Oually Flags have been set for one more records. GS_OFFL_SIR_JOPR_2_20211031T01654_20211001T011628_C001 OCCG Altimeter Range Cubity PLRM. The OCCG Range and Backscatter Oually Flags have been set for one more records. CS_OFFL_SIR_JOPR_2_20211031T01642_02211031T01642_02000_C001 OCCG Altimeter Range Cubity PLRM. The OCCG Range and Backscatter Oually Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20211031T016817_20211031T012620_C001 OCCG Altimeter Range Cubity PLRM. The OCCG Range and Backscatter Oually Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20211031T016817_20211031T025721_C001 OCCG Altimeter Range Cubity PLRM. The OCCGO Range and Backscatter Oually Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20211031T025897_20211031T025721_C001 OCCG Altimeter Range Cubity PLRM. The OCCGO Range and Backscatter Oually Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20211031T056500_20211031T06210_C001 Altimeter Range SHA_SWH and Backscatter Oually Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20211031T001658_20211031T002057_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_JOPR_2_20211031T010345_20211031T010557_0001 and Backscatter Quality FLML, OCCO The Occord State Database Teal D	CS_OFFL_SIR_IOPR_2_20211031T005629_20211031T010345_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_UPPL_SIR_UOPR_2_202110311011662_0011 OCCOB Backscater Quality or more records. CS_OFFL_SIR_UOPR_2_202110311014245_202110311014743_C0011 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been after one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been after one or more records. CS_OFFL_SIR_UOPR_2_202110311015817_202110311020030_C0011 Ocean Altimeter Range and Backscatter Quality Flags have been after one or more records. The OCCOR Altimeter Range and Backscatter Quality Flags have been after one or more records. CS_OFFL_SIR_UOPR_2_202110311023037_202110311022032_C0011 OCCOR Altimeter Range and Backscatter Quality Flags have been after one or more records. The OCCOR Altimeter Range and Backscatter Quality Flags have been after one or more records. CS_OFFL_SIR_UOPR_2_202110311023037_202110311024240_C0001 OCCOR Altimeter Range and Backscatter Quality Flags have been after one or more records. The OCCOR Altimeter Range and Backscatter Quality Flags have been after one or more records. CS_OFFL_SIR_UOPR_2_202110311055560_202110311060210_C0011 OCCOR Altimeter Range ASHA, SWH and Backscatter Quality Flags have been after one or more records. The OCCOR Altimeter Range ASHA, SWH and Backscatter Quality Flags have been after one or more records. CS_OFFL_SIR_UOPR_2_2021103110565701_202110311060210_C0011 OCCOR Altimeter Range ASHA, SWH and Backscatter Quality Flags have been after one or more records. The OCCAN Altimeter Range ASHA, SWH and Backscatter Quality Flags have been after one or mor	CS_OFFL_SIR_IOPR_2_20211031T010345_20211031T010557_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T014245_20211031T014743_C001 and Backscatter Quality PLM, COCO Altimeter Range and Backscatter Quality PLM, DOCO Altimeter Range	CS_OFFL_SIR_IOPR_2_20211031T011654_20211031T011829_C001		
CS_OFFL_SIR_IOPR_2_20211031T015817_20211031T020030_C001 and Backscatter Quality PLEM. COuld in the COGR Alimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T023637_20211031T023721_C001 CCCG Alimeter Range Quality PLEM. COCG Alimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T023817_20211031T024240_C001 Ccean Alimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLEM. COCG Alimeter Range and Backscatter Quality Flags and Backscatter Q	CS_OFFL_SIR_IOPR_2_20211031T014245_20211031T014743_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031102363/_20211031102363/_20211031102363/_20211031102363/_20211031102363/_20211031102363/_20211031102363/_202110311024240_C001 OCOG Backscatter Quality FLags A, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202110311053269_202110311054148_C001 OCOG Altimeter Range Quality PLRM, COG GA Rameter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202110311055600_202110311060210_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202110311065711_202110311066210_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202110311065711_202110311066256_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_2021103110767375_202110311074152_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_2021103110782207_202110311074152_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202110311082207_202110311082432_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_202110311082605_202110311083823_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality	CS_OFFL_SIR_IOPR_2_20211031T015817_20211031T020030_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T023817_20211031T024240_C001 and Backscatter Quality PLRM, CCCG Interfer Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and Backscatter Quality Plags and the COCG Altimeter Range and Backscatter Quality Plags and Backscatter Quality Plags and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T082207_20211031T082432_C001 Ceean Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T082605_20211031T082823_C001 CCCG Altimeter Range a	CS_OFFL_SIR_IOPR_2_20211031T023637_20211031T023721_C001	0,000	5 , 5
CS_OFFL_SIR_IOPR_2_20211031T055600_20211031T060210_C001 OCCG Backscatter Quality in or more records. CS_OFFL_SIR_IOPR_2_20211031T055600_20211031T060210_C001 Mitimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Attimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCCG Altimeter Range, and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211031T065711_20211031T065856_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCCG Altimeter Range, SSHA, SWH and the OCCG Altimeter Range, and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211031T065711_20211031T074152_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCCG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211031T073735_20211031T074152_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211031T082207_20211031T082432_C001 Mitmeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211031T083605_20211031T083823_C001 Altimeter Range Quality PLRM, QCCG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20211031T080605_20211031T083823_C001 Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Bac	CS_OFFL_SIR_IOPR_2_20211031T023817_20211031T024240_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T055600_20211031T060210_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Inte OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T065711_20211031T065856_C001 Ccean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T073735_20211031T074152_C001 Ccean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20211031T080605_20211031T083823_C001 OCOG Attimeter Range Quality PLRM, OCCOG Attimeter Range and Backscatter Quality PLRM	CS_OFFL_SIR_IOPR_2_20211031T053259_20211031T054148_C001		
CS_OFFL_SIR_IOPR_2_20211031T065711_20211031T065856_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T073735_20211031T074152_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T091158_20211031T091311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20211031T055600_20211031T060210_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T073735_20211031T074152_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Interest Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Attimeter Range, and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T082207_20211031T082432_C001 Decean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and B	CS_OFFL_SIR_IOPR_2_20211031T065711_20211031T065856_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T082207_20211031T082432_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Inte Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T090619_20211031T090705_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T091311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG and Ba	CS_OFFL_SIR_IOPR_2_20211031T073735_20211031T074152_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T083605_20211031T083823_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Intercer Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality FLRM, OCOG The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20211031T090619_20211031T090705_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_20211031T091158_20211031T091311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range	CS_OFFL_SIR_IOPR_2_20211031T082207_20211031T082432_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T091158_20211031T091311_C001 OCOG Backscatter Quality or more records. 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 been set for one records.	CS_OFFL_SIR_IOPR_2_20211031T083605_20211031T083823_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20211031T091158_20211031T091311_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Qua	CS_OFFL_SIR_IOPR_2_20211031T090619_20211031T090705_C001		
	CS_OFFL_SIR_IOPR_2_20211031T091158_20211031T091311_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPR_2_20211031T091545_20211031T092237_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_20211031T095948_20211031T100424_C001	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_20211031T101507_20211031T101732_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_20211031T104201_20211031T104243_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_20211031T105500_20211031T105516_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_20211031T105532_20211031T110319_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_20211031T110444_20211031T110524_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_20211031T113953_20211031T114357_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_20211031T115350_20211031T115758_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_20211031T123330_20211031T123449_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_20211031T123540_20211031T124350_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_20211031T131908_20211031T132113_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_20211031T141507_20211031T142229_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_20211031T145206_20211031T145309_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_20211031T151026_20211031T151725_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_20211031T152948_20211031T153133_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_20211031T155420_20211031T155941_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_20211031T162051_20211031T162254_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_20211031T163712_20211031T163836_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_20211031T173310_20211031T173807_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_20211031T175355_20211031T180126_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_20211031T182949_20211031T183217_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_20211031T185802_20211031T185838_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_20211031T191133_20211031T191657_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_20211031T191710_20211031T191953_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_20211031T195503_20211031T195726_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_20211031T204826_20211031T205725_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_20211031T205750_20211031T210012_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_20211031T213432_20211031T213653_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_20211031T214754_20211031T215156_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_20211031T222549_20211031T222626_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_20211031T222819_20211031T223611_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_20211031T223912_20211031T224119_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_20211031T231114_20211031T231637_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_20211031T232638_20211031T233051_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.				
L2 Quality Flags (1 Hz & 1Hz PLRM)						
Currently, there are several common flags raised in the Level 2 products, which are summarised below.						
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for p	> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.					
Number of products with errors: 196						

E 0	10	0aaan	Detrealing	Quality Check	
D.O	L2	ocean	Retracking		

L2 Retracking Flags (20Hz)

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

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

Number of	products with errors:	70
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L2 Retracking Flags (20Hz, PLRM)

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

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

147

Number of products with errors:

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

6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0

6.2 P2P Product Header Analysis

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

6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

6.4 P2P Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

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

30

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220211030T232338_20211031T001316_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211031T001316_20211031T010252_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

Ox_OPT_D_D_D_Z_NETIONTONIN_CONT More des Subscription The second	CS_OFFL_SIR_IOP_220211031T010252_20211031T015231_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)
62,67TL_SRU_OP_2_20211031T62402_20211031T62416_2021 Integraphy (integraphy context) There is an even with the X8D bady (postboll 1). It as New Dynamic Context is the an even with the X8D bady (postboll 1). It as New Dynamic Context is the annext with the X8D bady (postboll 1) and the Xeen Dynamic Context is the annext with the X8D bady (postboll 1) and the Xeen Dynamic Context is the annext with the X8D bady (postboll 1) and the Xeen Dynamic Context is the annext with the X8D bady (postboll 1) and the Xeen Dynamic Context is th	CS_OFFL_SIR_IOP_2_20211031T015231_20211031T024207_C001		
Construction Transport (n Transport (n) Transport (n) Construction March Sociation (1), March Deval Transport (n) Construction Transport (n) March Sociation (1), March Deval Transport (n) Construction Transport (n) March Sociation (1), March Deval Transport (n) Construction Transport (n) March Sociation (1), March Deval Transport (n) Construction Transport (n) Transport (n) Transport (n) Transport (n) Construction Transport (n) March Sociation (1), March Deval Transport (n) Transport (n) Construction March Sociation (1), March Deval Transport (n) Transport(n) Transport(n) Tr	CS_OFFL_SIR_IOP_220211031T024207_20211031T033146_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
Cold Dirty, Sim, Cold 2, 2021100111002102 20211011100200 Transportsyn (1) Transportsyn (1) CS, Dirty, Sim, Cold 2, 202110011100200, 2001 Meen Exe Statice (1), Meen Durantsi Transportsyn (1) Tere is an enzy with it eVES heads (1) for the Meen Durantsi Transportsyn (1). CS, Dirty, Sim, Cold 2, 202110011100200, 202110011100000, 10	CS_OFFL_SIR_IOP_2_20211031T033146_20211031T042122_C001		
Corp. Sam, Corp. 2, and Control Barling And Corp. Sam, Corp. Sam, Corp. 2, and Control Barling And Corp. Sam, Corp. Sam, Corp. 2, and Control Barling And Corp. Sam, Corp. 2, and Control Barling And Corp. Sam, Corp. 2, and Control Barling And Corp. Sam, Corp. 2, a	CS_OFFL_SIR_IOP_220211031T042122_20211031T051100_C001		
C8. DFL_SH_UP_2_2021031T08005_20211031T18005_202110031T18005_20211031T18005_20211031T18005_2021	CS_OFFL_SIR_IOP_2_20211031T051100_20211031T060036_C001		
Control Control Transparty (1) Transparty (1) CS_OFFL_SR_OPOPI_011031103051_C001 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP0211031103050_C001 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP02211031103050_C001 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP02210311103050_C001 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP02210311103050_C001 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP02210311100502_0011 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP02210311100502_0011 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP02210311100502_0011 Mem Sea Surface (1), Mean Dynamic Transparty (1) CS_OFFL_SR_OP02210311100502_00111102704_0001 Mem Sea Surface (1), Mem Dynamic Transparty (1) CS_OFFL_SR_OP02210311100502_00111102704_0001 Mem Sea Surface (1), Mem Dynamic Transparty (1) CS_OFFL_SR_OP02210311100502_00111102704_0001 Mem Sea Surface (1), Mem Dynamic Transparty (1) CS_OFFL_SR_OP02210311100502_0011 Mem Sea Surface (1), Mem Dynamic Transparty (1)	CS_OFFL_SIR_IOP_2_20211031T060036_20211031T065015_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
Disk Disk Disk Disk Tappgraphy (1) Tappgraphy (1) CS OFFL_SIN_IOP_2_20211031T08280_20211031T089106_C001 Mars Sea Surface (1), Man Dynamic Tappgraphy (1) Tappgraphy (1) There is an error with NeXS height (solution 1) and the Man Dynamic Tappgraphy (1) CS_OFFL_SIN_IOP_2_20211031T108044_20211031T10820_C001 Mars Sea Surface (1), Man Dynamic Tappgraphy (1) There is an error with NeXS height (solution 1) and the Man Dynamic Tappgraphy (1) CS_OFFL_SIN_IOP_2_20211031T108044_20211031T10820_C001 Mars Sea Surface (1), Man Dynamic Tappgraphy (1) There is an error with NeXS height (solution 1) and the Man Dynamic Tappgraphy (1) CS_OFFL_SIN_IOP_2_20211031T108044_20211031T108202_C001 Mars Sea Surface (1), Man Dynamic Tappgraphy (1) There is an error with NeXS height (solution 1) and the Man Dynamic Tappgraphy (1) CS_OFFL_SIN_IOP_2_20211031T108042_0011103714_0001 Mars Sea Surface (1), Man Dynamic Tappgraphy (1) There is an error with NeXS height (solution 1) and the Man Dynamic Tappgraphy (1) CS_OFFL_SIN_IOP_2_20211031T108042_0011103714_0001 Mars Sea Surface (1), Man Dynamic Tappgraphy (1) There is an error with NeXS height (solution 1) and the Man Dynamic Tappgraphy (1) CS_OFFL_SIN_IOP_2_20211031T108048_02011031T108048_0001 Mars Sea Surface (1), Mean Dynamic Tappgraphy (1) There is an error with NeXS height (solution 1) and the Man Dynamic Tappgraphy (1) CS_OFFL_SIN_IOP_	CS_OFFL_SIR_IOP_220211031T065015_20211031T073951_C001		
OP. JPT:	CS_OFFL_SIR_IOP_220211031T073951_20211031T082930_C001		
DALPHPL_SHLUP_2_021103110366_021103110064_0201103110064 Topography (1) Topography (1) Topography (1) CS_OFFL_SIR_JOP_2_0211031110684_02011031100840_0001 Mean Ses Sufface (1), Mean Dynamic Topography (1) There is an orner with the MSS height (doublen 1), the Mean Dynamic Topography (1) CS_OFFL_SIR_JOP_2_02011031110580_0001 Mean Ses Sufface (1), Mean Dynamic Topography (1) There is an orner with the MSS height (doublen 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_JOP_2_020110311102735_0001 Mean Ses Sufface (1), Mean Dynamic Topography (1) There is an orner with the MSS height (doublen 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_JOP_2_020110311102735_0001 Mean Ses Sufface (1), Mean Dynamic Topography (1) There is an orner with the MSS height (doublen 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_JOP_2_020110311102714_0001 Mean Ses Sufface (1), Mean Dynamic Topography (1) There is an orner with the MSS height (doublen 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_JOP_2_020110311102714_0001 Mean Ses Sufface (1), Mean Dynamic Topography (1) There is an orner with the MSS height (doublen 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_JOP_2_020110311102713_0001 Mean Ses Sufface (1), Mean Dynamic Topography height (doublen 1) and the Mean Dynamic Topography	CS_OFFL_SIR_IOP_220211031T082930_20211031T091906_C001		
CS_OFFL_SIR_JOP_2_B2211031T10844_80211031T105820_0001 Topography (1), Total Geocemic Ocean Topography (2), Total Geocemic Ocean Topography (2), Total Geocemic Ocean CS_OFFL_SIR_JOP_2_20211031T105820_20211031T114759_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T114759_20211031T112735_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T112735_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T112714_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T14650_20211031T150688_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T160688_0211031T150688_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T16643_0201 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T164543_0201 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_JOP_2_20211031T164	CS_OFFL_SIR_IOP_220211031T091906_20211031T100844_C001		
Dis_OFF_SIR_IOP_2_20211031T122735_0001 Topography (1) Topography (1) Topography (1) CS_OFFL_SIR_IOP_2_20211031T122735_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) CS_OFFL_SIR_IOP_2_20211031T122735_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) CS_OFFL_SIR_IOP_2_20211031T122735_000103T1122714_20211031T14650_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) CS_OFFL_SIR_IOP_2_20211031T132714_20211031T166028_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T156028_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) The Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T156024_20211031T15604_2001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T15604_20211031T15604_2001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T15604_20211031T15604_2001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T152458_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynam	CS_OFFL_SIR_IOP_2_20211031T100844_20211031T105820_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS_OFFL_SIR_IOP_2_20211031T14203_20211031T14203_0001 Topography (1) Topography leght (solution 1) CS_OFFL_SIR_IOP_2_20211031T122738_20211031T132714_0001 Mean Sea Surface (1), Mean Dynamic Topography leght (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography leght (solution 1) CS_OFFL_SIR_IOP_2_20211031T14650_2001 Mean Sea Surface (1), Mean Dynamic Topography leght (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography leght (solution 1) CS_OFFL_SIR_IOP_2_20211031T14650_20211031T14650_0001 Mean Sea Surface (1), Mean Dynamic Topography leght (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography leght (solution 1) CS_OFFL_SIR_IOP_2_20211031T166643_20211031T164643_0001 Mean Sea Surface (1), Mean Dynamic Topography leght (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography leght (solution 1) CS_OFFL_SIR_IOP_2_20211031T164643_20211031T164643_0001 Mean Sea Surface (1), Mean Dynamic Topography leght (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography leght (solution 1) CS_OFFL_SIR_IOP_2_20211031T164643_20211031T13619_001 Mean Sea Surface (1), Mean Dynamic Topography leght (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography leght (solution 1) CS_OFFL_SIR_IOP_2_20211031T164643_20211031T191434_2001 Mean Sea Surface (1), Mean Dynamic Topography leght (solution 1) There is	CS_OFFL_SIR_IOP_220211031T105820_20211031T114759_C001		
CS_OFFL_SIR_IOP_2_20211031T12074_20211031T12054_0001 Topography (1) Topography Height (solution 1) CS_OFFL_SIR_IOP_2_20211031T13274_20211031T141650_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T141650_20211031T150628_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T150628_00211031T15664_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T15664_2001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T15664_2001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T164543_0211031T178519_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T182458_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T191434_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T191434_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T191434_0001 </td <td>CS_OFFL_SIR_IOP_220211031T114759_20211031T123735_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOP_220211031T114759_20211031T123735_C001		
CS_OFFL_SIR_IOP_2_20211031T142/4_20211031T150628_0001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T145602_00211031T150628_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T150628_20211031T165604_0011 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T165604_20211031T164543_0011 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T164543_0211031T164543_0011 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_20211031T164543_0211031T161434_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T161434_00211031T161434_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T161434_00211031T200413_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error wit	CS_OFFL_SIR_IOP_220211031T123735_20211031T132714_C001		
CS_OFFL_SIR_IOP_2_20211031T150628_20211031T150628_20211031T150628_20211031T150628_20211031T155604_2001 Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T155604_20211031T164543_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T164543_20211031T164543_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T173519_20211031T182458_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T173519_20211031T182458_0001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T191434_20211031T200413_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T191434_20211031T200413_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T191434_20211031T200413_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic CS_OFFL_SIR_IOP_2_20211031T200413_20211031T200413_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dyna	CS_OFFL_SIR_IOP_220211031T132714_20211031T141650_C001		
CS_OFFL_SIR_IOP_2_20211031T155604_20211031T164543_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T164543_20211031T164543_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T164543_20211031T164543_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T164543_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T164543_0001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tde (FES), Nor-Equilibrium Long Period There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records Topography (solution 1), and tidal corrections for one or more records Topography (solution 1), and tidal corrections for one or more records CS_OFFL_SIR_IOP_2_20211031T200413_20211031T205349_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and tidal cocretic Ocean Tde (FES), Nor-Equilibrium Long Period Cean Tide There is an error with the MSS height (solution 1), and the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tde (FES), Nor-Equilibrium Long Period Cean Tide CS_OFFL_SIR_IOP_2_20211031T205349_20211031T214327_C001 Mean Sea	CS_OFFL_SIR_IOP_220211031T141650_20211031T150628_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	
OFFL_SIR_IOP_2_d0211031T164543_20211031T173519_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOP_2_20211031T164543_20211031T173519_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T164543_20211031T162458_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T162458_20211031T191434_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T191434_20211031T200413_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Cocean Tide There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Cocean Tide CS_OFFL_SIR_IOP_2_20211031T200413_20211031T205349_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Cocean Tide There is an error with the MSS height (solution 1), and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Cocean Tide CS_OFFL_SIR_IOP_2_20211031T205349_20211031T214327_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) <td>CS_OFFL_SIR_IOP_220211031T150628_20211031T155604_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOP_220211031T150628_20211031T155604_C001		
CS_OFFL_SIR_IOP_2_202110311173519_202110311173519_202110311182458_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_202110311173519_202110311182458_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_202110311182458_202110311191434_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_202110311191434_202110311200413_C001 Mean Sea Surface (1), Mean Dynamic Topography (Solution 1), and tidal corrections for one or more records 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_202110311200413_202110311205349_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ceean Tide There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: Tide (FES), Non-Equilibrium Long Period Ocean Tide for one or more Ceean Tide CS_OFFL_SIR_IOP_2_20211031T205349_20211031T214327_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T214327_20211031T223303_C001 Mean Sea Surface (1), Mean Dynamic Topography (1)	CS_OFFL_SIR_IOP_220211031T155604_20211031T164543_C001		
CS_OFFL_SIR_IOP_2_2021103117182458_2021103117191434_C001 Topography (1) Topography (eliptic (solution 1) CS_OFFL_SIR_IOP_2_20211031T182458_20211031T191434_C001 Mean Sea Surface (1), Mean Dynamic Topography (hean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (height (solution 1) CS_OFFL_SIR_IOP_2_20211031T214327_20211031T214327_C001 Mean Sea Surface (h, Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and th	CS_OFFL_SIR_IOP_220211031T164543_20211031T173519_C001		o ()
CS_OFFL_SIR_IOP_2_20211031T182438_20211031T191434_2001 Topography (1) Topography (1) Topography (solution 1) CS_OFFL_SIR_IOP_2_20211031T191434_20211031T200413_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and tidal corrections for one or more records Tde (GED), Non-Equilibrium Long Period Ceen 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 Ceen Tide CS_OFFL_SIR_IOP_2_20211031T200413_20211031T205349_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (GED), Non-Equilibrium Long Period Ceen Tide (Solution 1), the Total Geocentric Ocean Tide (solution 2: Tfee) records CS_OFFL_SIR_IOP_2_20211031T205349_20211031T214327_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T214327_20211031T223303_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T223303_20211031T223303_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T223303_20211031T223242_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T223303_20211031T232242_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) <td>CS_OFFL_SIR_IOP_220211031T173519_20211031T182458_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOP_220211031T173519_20211031T182458_C001		
CS_OFFL_SIR_IOP_2_20211031T191434_20211031T200413_C001 Topgraphy (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), and tidal corrections for one or more records CS_OFFL_SIR_IOP_2_20211031T200413_20211031T205349_C001 Mean Sea Surface (1), Mean Dynamic Tide (FES), Non-Equilibrium Long Period There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period CS_OFFL_SIR_IOP_2_20211031T205349_20211031T205349_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T205349_20211031T214327_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T214327_20211031T223303_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T223303_20211031T223203_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20211031T223203_20211031T223242_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)	CS_OFFL_SIR_IOP_2_20211031T182458_20211031T191434_C001		
CS_OFFL_SIR_IOP_2_20211031T200413_20211031T205349_C001Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Cean TideTopography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more recordsCS_OFFL_SIR_IOP_2_20211031T205349_20211031T214327_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_IOP_2_20211031T214327_20211031T223303_C001Mean 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_20211031T223303_20211031T223242_C001Mean 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_20211031T223303_20211031T232242_C001Mean 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_20211031T223303_20211031T232242_C001Mean 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_220211031T191434_20211031T200413_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
CS_OFFL_SIR_IOP_2_202110311205349_202110311214327_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOP_2_202110311214327_202110311223303_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_202110311223303_202110311223242_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_202110311223242_202110311223242_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_202110311232242_202111011001218_C002 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOP_220211031T200413_20211031T205349_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more
CS_OFFL_SIR_IOP_2_202110311223303_202110311223303_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOP_2_202110311223303_202110311232242_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_202110311232242_202110311232242_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2_202110311232242_202111011001218_C002 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOP_220211031T205349_20211031T214327_C001		
CS_OFFL_SIR_IOP_2_202110311232242_2001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOP_2_202110311232242_20211101T001218_C002 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOP_220211031T214327_20211031T223303_C001		
	CS_OFFL_SIR_IOP_220211031T223303_20211031T232242_C001		
	CS_OFFL_SIR_IOP_2_20211031T232242_20211101T001218_C002		

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.

1

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220211031T223303_20211031T232242_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz) CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products. Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. Number of products with errors: 30

P2P Quality Flags (20Hz PLRM)

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

30

30

27

30

Number of products with errors:

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors:

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors:

P2P Retracking Flags PLRM

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

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

9

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	200	200	2	198	0
SIR_IOPR1B	106	110	2	108	0
SIR_IOPN1B	110	106	0	106	0
SIR_IOPM_2	200	200	139	61	0
SIR_IOPR_2	106	110	43	67	0
SIR_IOPN_2	110	106	31	74	1
SIR_IOP_P2P	29	29	0	27	2

7.1 QCC Errors

Number of QCC reports with errors:

					Total number	of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	2	2	2	2							

Test Description Key:	Test Description Key:				
Abbreviation	Test name	Details			
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7			
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7			
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7			
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7			

7.2 QCC Warnings

Number of QCC reports with warnings

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
SIR_IOPM1B	198	0	0	0	0	0	0
SIR_IOPM_2	0	0	43	45	1	45	0
SIR_IOPN1B	107	0	0	0	0	0	0
SIR_IOPN_2	0	0	15	37	5	31	34
SIR_IOPR1B	103	0	0	0	0	0	0
SIR_IOPR_2	0	1	46	46	0	36	27
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSAR	NCERPEPOPFDPLRMSINNC	DRPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	37	0	42	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	25	1	0	0	26	0	36
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	11	3	0	50	0	54	0
Due doubt Toma	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
Product Type		RPEPOPSARNCDP	RPEPUPSININCUP	ROODCONCDE		RSSHAUFDPLRMINCDF	
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	31 0	0	0	3	27	0	3
SIR_IOPN1B		0	0	0	0	0	0
SIR_IOPN_2	0	0	30	22	38	58	34
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	49	0	0	66	42	11
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR IOPM1B	0	0	0	0	0	0	
SIR IOPM 2	38	0	1	0	0	0	
SIR IOPN1B	0	0	0	0	51	0	
SIR IOPN 2	36	32	19	2	0	0	
SIR IOPR1B	0	0	0	0	106	2	
SIR IOPR 2	42	48	2	2	0	0	

SIR_IOP_2_	14	29	29	6	29	19	29
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	4	18	29	25	18	29	19
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
Product Type SIR_IOP_2_	RSSHAONCDF 25	RSWHOEPFDNCDF 29	RSWHOEPFDPLRMNCDF 21	RSWHOEPNCDF	SPHLPQWNCDF 29	-	•
				RSWHOEPNCDF 17		•	•
				RSWHOEPNCDF 17 -		-	•

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
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	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				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) fo surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMN	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter				

7.3 Missing QCC Reports

Number of products with missing QCC reports: 0