

QA4EO Daily Report for IOP data:

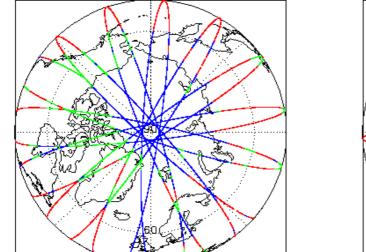
<u>27/12/2022</u>

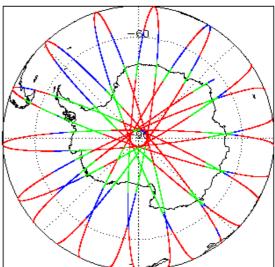
IDEAS-QA4E0

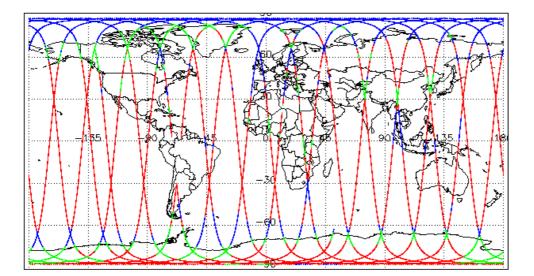
1. Overview					
Report Production: 03-Jan-2023		Check	L1 & L2	P2P	
		Server check: science-pds.cryosat.esa.int	Nominal	Nominal	
Processor Used: CryoSat Ocean Processor		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal	
		Product Software Check	Nominal	Nominal	
Data Usardi	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal	
Data Used: L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal		
	·	Auxiliary Data File Usage Check	Nominal	Nominal	
We would love to hear from you! Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to		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	
cs2_qc_team@telespazio.com		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2	

Mission / Instrument News		
26-Dec-2022		
27-Dec-2022	None	
28-Dec-2022	Nothing planned	

2. Global Coverage







Mode Coverage



3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inconsistencies	s and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre	-determined baseline and also to check the	validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	I. The bit value of this flag indicates any prol	blems 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 measurem	ent record. The bit value of this flag indicate	es any problems when set.
> Attitude Correction Missing: This flag is currently set in error for IOPR procupdate.	lucts due to a configuration issue. The attitu	de correction is actually not missing. This will be resolved in the next SW
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221227T090247_20221227T090340_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		
no Ere matororini oroup bata oncon		

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

26

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20221227T015434_20221227T022721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221227T153019_20221227T153529_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20221227T235226_20221227T235529_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T001057_20221227T001207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T050555_20221227T051119_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T055649_20221227T060113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T073825_20221227T074044_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T081742_20221227T081834_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T091509_20221227T091733_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T104847_20221227T104903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T105004_20221227T105035_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T123712_20221227T124201_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T135545_20221227T135745_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T190258_20221227T190720_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T202838_20221227T203001_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T204152_20221227T204605_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20221227T235529_20221228T000122_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T023039_20221227T023743_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T063442_20221227T064031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T072915_20221227T073400_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T104624_20221227T104847_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T104903_20221227T105003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T113452_20221227T113729_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T153529_20221227T153610_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T154846_20221227T155626_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20221227T190720_20221227T191433_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

 Number of products with errors:
 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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).

0

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.

53

> 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_20221227T203358_20221227T203643_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T032017_20221227T032142_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_20221227T032652_20221227T032958_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_20221227T050056_20221227T050347_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_20221227T050555_20221227T051119_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_20221227T055649_20221227T060113_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_20221227T064031_20221227T064307_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_20221227T073548_20221227T073659_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_20221227T073825_20221227T074044_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T081837_20221227T082123_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_20221227T091509_20221227T091733_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_20221227T091744_20221227T091932_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T095754_20221227T095944_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T100804_20221227T101021_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T105503_20221227T105932_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T123712_20221227T124201_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_20221227T131728_20221227T132107_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_20221227T140742_20221227T140828_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T145654_20221227T150012_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_20221227T150524_20221227T150649_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T164430_20221227T164538_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T172651_20221227T172805_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_20221227T200004_20221227T200616_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_20221227T204152_20221227T204605_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_20221227T213044_20221227T213308_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T213936_20221227T214249_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T222040_20221227T222428_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20221227T232027_20221227T232144_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_IOPN_2_20221227T235529_20221228T000122_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	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_IOPR_2_20221227T005158_20221227T005937_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_20221227T010954_20221227T011052_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221227T023039_20221227T023743_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_20221227T023743_20221227T023908_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_20221227T040943_20221227T041643_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_20221227T041643_20221227T042100_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_20221227T054927_20221227T055023_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221227T055117_20221227T055537_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_20221227T055537_20221227T055649_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_20221227T072915_20221227T073400_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_20221227T073400_20221227T073548_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_20221227T084728_20221227T085133_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221227T090857_20221227T091509_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_20221227T105035_20221227T105503_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_20221227T122751_20221227T123712_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_20221227T140828_20221227T141616_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_20221227T153857_20221227T154026_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_IOPR_2_20221227T154026_20221227T154502_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221227T154846_20221227T155626_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_20221227T172805_20221227T173529_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_20221227T190720_20221227T191433_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_20221227T193406_20221227T193555_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20221227T204606_20221227T205300_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_20221227T222429_20221227T223303_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

1

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221227T090247_20221227T090340_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

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

90

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20221227T000217_20221227T000723_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_20221227T000730_20221227T001057_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_20221227T001517_20221227T004820_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_20221227T011103_20221227T012015_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_20221227T012309_20221227T012937_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_20221227T013407_20221227T013819_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_20221227T014217_20221227T014756_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_20221227T015434_20221227T022721_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_20221227T024051_20221227T024150_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_20221227T030028_20221227T031654_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_20221227T032142_20221227T032652_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_20221227T033314_20221227T040715_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_20221227T043127_20221227T043559_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_20221227T043644_20221227T045419_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_20221227T051304_20221227T054530_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_20221227T054758_20221227T054800_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_20221227T054841_20221227T054844_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_20221227T060152_20221227T062014_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_20221227T062111_20221227T063442_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_20221227T064625_20221227T065007_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_20221227T065207_20221227T070726_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_20221227T070928_20221227T071850_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_20221227T074440_20221227T075812_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

0,000_ult_QHU_2HIZ212711011Q_URXIX_DT1001Q_URXIX 0.000 Allows Fines Package Data Number Fines, Polity, Polity	CS_OFFL_SIR_IOPM_2_20221227T081417_20221227T081535_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
G FFL, SH, DPN 2. 2021/27708101.001 ord Backattr Cubit, ECCO. per the COCO Attemps Page or Biochastr Cubit, Page has been and Attemps Page or Biochastr Cubit, Page has been and Attemps Page or Biochastr Cubit, Page has been and Backattr Cubit, Page has been and Backattr Cubit, Page or Biochastr Cubit, Page has been and Backattr Cubit, Page or Biochastr Cubit, Page has been and Backattr Cubit, Page or Biochastr Cubit, Page has been and Backattr Cubit, Page or Biochastr Cubit, Page has been and Backattr Cubit, Page or Biochastr Cubit, Page has been and Backattr Cubit, Page or Biochastr Cubit, Page has been and Backattr Cubit, Page or Biochastr Cubit, Pag	CS_OFFL_SIR_IOPM_2_20221227T082123_20221227T082909_C001		а , , , , , , , , , , , , , , , , , , ,
Control Descent Quark Descent Quark<	CS_OFFL_SIR_IOPM_2_20221227T083150_20221227T084631_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CR_CPPT_URL_DPM_2_X22127713844_0221277110184_0211 intermessante Quilty COOL intermessante Quilty COOL CR_CPPT_URL_DPM_2_X22127711018_021027110184_0211 COOL Altereter Responduity The COOL Altereter Responduity Council Altereter Responduity CR_CPPT_URL_DPM_2_X221277110181_021027110184_0211 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277110181_0210210271110184_0211 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277110181_0210210771110180_021011 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277110181_0210271111018_021011 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277111018_0210271111018_021011 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277111018_0210271111018_021011 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277111018_0210271111018_021011 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277111018_0210271111018_01011 COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277111018_01011 COOL Altereter Responduity The COOL Altereter Responduity The COOL Altereter Responduity CR_CPPT_URL_DPM_2_X221277111018_01001	CS_OFFL_SIR_IOPM_2_20221227T090247_20221227T090340_C001		
Open UPS Control Control (Control (Contro) (Contro) (Control (Control (Control (Contro) (Contro) (Contro)	CS_OFFL_SIR_IOPM_2_20221227T092431_20221227T095640_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bitscheller Calify Bitscheller Calify <td>CS_OFFL_SIR_IOPM_2_20221227T095944_20221227T100158_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOPM_2_20221227T095944_20221227T100158_C001		
CB, DFFL SIR, IDFM 2, 20221227110110, 20221227110280, C001 and Backcaster Cuality, CO05 and Field Coulity, CO05 CB, DFFL SIR, IDFM 2, 20221227110110, 2022122711010, 2022122711010, 2022122711010, 2022122711010, 2022122711010, 2022122711010, 2022122711010, 2022122711010, 2022122711010, 2022122711010, 2021122711010, 2022122711010, 2021122711010, 2022122711010, 2021122711010, 2021122711010, 202112271100, 2	CS_OFFL_SIR_IOPM_2_20221227T100210_20221227T100803_C001	0	, , , , , , , , , , , , , , , , , , ,
CB_OFFL_SIR_UPM_2_2021227T110818_20218_2021227T110818_20218_2021227T110818_20218_2021227T110818_20218_2021227T110818_20218_2021227T110818_20218_2021227T110818_20218_2021227T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_20218_2021827T110818_	CS_OFFL_SIR_IOPM_2_20221227T101130_20221227T103620_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Obj. DHL_SHL_DHL_SU21227111410_20221227111400_0001 Badscaller Quilty Tor one or more records C5_OFFL_SIR_IOPK_2_0021227112100_00221227112100_0001 Coan Altmeter Range ASSLA, SWH and Backcatter Quilty, Coan Altmeter Range and Backcatter Quilty, Flags have been Altmeter Range and Backcatter Quilty, Flags have	CS_OFFL_SIR_IOPM_2_20221227T110818_20221227T113452_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_LIOPM_2_8021227T115010_20221227T112610_20021 and Backstatter Quality, DCOG and Backstatter Quality, DCOG Attracter Range, BSHA, SWH, and Backstatter Quality Fags have been Attracter Range, BSHA, SWH, and Backstatter Quality Fags have been Attracter Range, BSHA, SWH, and Backstatter Quality Fags have been Attracter Range, BSHA, SWH, and Backstatter Quality Fags have been Attracter Range, SSHA, SWH, and Backstatter Quality Fags have been Attracter Range, SSHA, SWH, and Backstatter Quality Fags have been Attracter Range, SSHA, SWH, and Backstatter Quality Fags have been Attracter Range and Backstatter Quality. Fags have been attracter Range and Backstatter Quality. Fags have been attracter Range and Backstatter Quality. Fags have been for one or more records CB_OFFL_SIR_LIOPM_2_20221227T13846_20021227T13846_20021 Cocan Attracter Range Quality.QCOG Attracter Range and Backstatter Quality. Fags have been set for one or more records The Ocean Attracter Range and Backstatter Quality. Fags have been attracter Range and Backstatter Quality. Fags have been set for one or more records CS_OFFL_SIR_LIOPM_2_20221227T140544_20221227T140544_20221227T140544_20221227T140544_20221227T140544_20221227T140544_20221227T140544_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_20021227T140546_2	CS_OFFL_SIR_IOPM_2_20221227T114156_20221227T114616_C001		
CB_OFFL_SIR_JOPM_2_00212271122001_20221227115290_0001 and the SOCIAG CB_OFFL_SIR_JOPM_2_00212271124001_20221227113199_0001 Coam Alimeter Range ad Backscatter Quality Flags have been ad for one or more records CB_OFFL_SIR_JOPM_2_00212271132040_0021227113294_0001 Coam Alimeter Range Quality, OOG Alimeter Range Ad Almeter Range and Backscatter Quality Flags have been ad for one or more records CB_OFFL_SIR_JOPM_2_00212271132048_0001 Cocam Alimeter Range Quality, OOG Alimeter Range Ad Almeter Range Ad Almeter Range Ad Almeter Range Ad Almeter Range Add Backscatter Quality Flags have been add to one or more records CS_OFFL_SIR_JOPM_2_20221227T140742_0001 Ocean Almeter Range SHA, SWH and Backscatter Quality Flags have been add to one or more records The Ocean Almeter Range SHA, SWH and Backscatter Quality Flags have been add to one or more records CS	CS_OFFL_SIR_IOPM_2_20221227T115010_20221227T121600_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS, OFFL_SIR_JOPM 2.20221227T132401.20221227T133495.001 and Backscatter Quality.COCG Allineter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM 2.20221227T132107_20221227T132646_001 OCCG Allineter Range Quality.OCCG Backscatter Quality Flags have been set for one or more records The OCCG Allineter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM 2.20221227T132949_20221227T133428_001 OCCGA Allineter Range Quality.OCCG Backscatter Quality Flags have been set for one or more records The OCCGA Allineter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPM 2.20221227T143249_20221227T143524_0011 OCCGA Allineter Range Quality.OCCG Backscatter Quality.OCCG Backscatter Quality.COCG Backscatter Quality	CS_OFFL_SIR_IOPM_2_20221227T122604_20221227T122751_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_PFF_SIR_UOPM_2_00212271132040_20212271132040_2001 Backscatter Quality Inc one or more neords CS_OFFL_SIR_UOPM_2_202212271132040_202212271133208_0001 Decean Attmater Range SHA, SWH and backscatter Quality The OCOCA Mitmeter Range and Backscatter Quality Flags have been set for one or more neords CS_OFFL_SIR_UOPM_2_202212271134709_202212271135204_0001 DCOCA Mitmeter Range Quality, OCOCA Backscatter Quality The OCOCA Mitmeter Range and Backscatter Quality Flags have been set for one or more neords CS_OFFL_SIR_UOPM_2_202212271140708_202212271140708_0001 Decen Attmater Range, SSHA, SWH and Backscatter Quality The OCOCA Mitmeter Range and Backscatter Quality CS_OFFL_SIR_UOPM_2_202212271140746_202212271140746_0001 Decen Attmater Range, SSHA, SWH and Backscatter Quality The OCECA Mitmeter Range and Backscatter Quality CS_OFFL_SIR_UOPM_2_202212271140746_200212271140746_001 Decen Attmater Range, SSHA, SWH and Backscatter Quality, OCOCA The OCECA Mitmeter Range and Backscatter Quality The OCECA Mitmeter Range and Backscatter Quality CS_OFFL_SIR_UOPM_2_202212271150012_20221227115084_C001 Decen Attmater Range, SSHA, SWH and Backscatter Quality, COCCA The OCECA Attimeter Range and Backscatter Quality Flags have been set for one or more necords CS_OFFL_SIR_UOPM_2_20221227115001_202212271150857_C001 Decen Attimeter Range, SSHA, SWH and Backscatter Quality, Flags have been attor one or more necords The OCECA Attimeter Range, SSHA, SWH and Backscatter Quality, Flags and t	CS_OFFL_SIR_IOPM_2_20221227T124201_20221227T131359_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20221227T13249_20221227T134282_0001 and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. COCG Backscatter Quality. COCG Batter Bange and Backscatter Quality. Flags have been backscatter Quality. COCG Batter Bange and Backscatter Quality. Flags have been backscatter Quality	CS_OFFL_SIR_IOPM_2_20221227T132107_20221227T132646_C001		
CS_OFFL_SIR_IOPM_2_20221227T140544_20221227T140544_20221227T140544_20221227T140728_0001 Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range. SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, COCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, COCOG Altimeter Range, SSHA, SWH and Backscatter Quality, COCOG Altimeter Range, SSHA, SWH and Backscatter Quality, COCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH a	CS_OFFL_SIR_IOPM_2_20221227T132949_20221227T133428_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221227T140544_20221227T140728_C001 and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality COG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T142025_20221227T150012_20221227T150524_C001 OCOG Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T150012_20221227T150524_C001 OCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T150012_20221227T15077_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T153847_20221227T153857_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T154505_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T154505_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T154505_C001 Ocean Altimeter Range ASHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T154505_C001 Ocean Altimeter Rang	CS_OFFL_SIR_IOPM_2_20221227T134709_20221227T135204_C001	0 11	
CS_OFFL_SIR_IOPM_2_20221227T142025_20221227T145346_C001 and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality set for one or more records CS_OFFL_SIR_IOPM_2_20221227T150012_20221227T150524_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T151000_20221227T15000 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T151000_20221227T152707_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T153847_20221227T153857_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have bee	CS_OFFL_SIR_IOPM_2_20221227T140544_20221227T140728_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221227115001_20221227115002_002212271152707_C001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPM_2_20221227T151000_20221227T152707_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T153847_20221227T153857_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T153847_20221227T153857_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T154502_20221227T154505_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T154502_20221227T154505_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T154503_0201 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T164019_20221227T16430_C001 OCCGA Altimeter Range Quality, OCOG The OCCGA Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Fags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T164019_20221227T164430_C001 OCCGA Altimeter Range Quality, OCOG <	CS_OFFL_SIR_IOPM_2_20221227T142025_20221227T145346_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221227T151000_20221227T152707_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T153847_20221227T153857_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat be OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat be OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat be OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat be OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat be OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range and Backscatter Quality Flags hat been set for one or mo	CS_OFFL_SIR_IOPM_2_20221227T150012_20221227T150524_C001		
CS_OFFL_SIR_IOPM_2_20221227T153847_20221227T153857_C001and Backscatter Quality, OCOG Attimeter Range and Backscatter Qualityand the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T154502_20221227T154505_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and the OCOG Attimeter Range and Backscatter QualityCS_OFFL_SIR_IOPM_2_20221227T154502_20221227T154503_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T164019_20221227T164430_C001OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T164912_20221227T171502_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T171526_20221227T171526_20221227T172522_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have beenCS_OFFL_SIR_IOPM_2_20221227T171526_20221227T172522_C001Ocean Altimeter Range,	CS_OFFL_SIR_IOPM_2_20221227T151000_20221227T152707_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221227T154502_20221227T154505_C001and Backscatter Quality, OCOG Attimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T155839_20221227T163230_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T164019_20221227T164430_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T164912_20221227T164912_20221227T17502_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T164912_20221227T17502_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20221227T17526_20221227T17526_20221227T177252_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221227T153847_20221227T153857_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221227T155839_20221227T163230_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T164019_20221227T164430_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_20221227T164019_20221227T164430_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T17526_20221227T17525_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and	CS_OFFL_SIR_IOPM_2_20221227T154502_20221227T154505_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221227T164019_20221227T17502_C001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPM_2_20221227T164912_20221227T17502_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 set for one or more records CS_OFFL_SIR_IOPM_2_20221227T171526_20221227T17252_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags hand backscatter Quality, OCOG	CS_OFFL_SIR_IOPM_2_20221227T155839_20221227T163230_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20221227T164912_20221227T171502_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20221227T171526_20221227T172525_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_IOPM_2_20221227T164019_20221227T164430_C001		
CS_OFFL_SIR_IOPM_2_20221227T171526_20221227T17252_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20221227T164912_20221227T171502_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20221227T171526_20221227T172252_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_JOPM_2_0021227117882_0021227117849_0001 Ocean Alimeter Range, SSHA, SWH and Backscatter Quality, Flags have be and Backscatter Quality, QOO Backscatter Quality, COO Backscatter Quality, QOO Backscatter Quality, RDB Backscatter Quality, QOO Backscatter Quality, RDB Backscatter Quality, Flags have bear Backscatter Quality, Flags have b
US_OFFL_SIR_JOPM_2_00221227119503_0021227119504_0001 Backstater Qualty fer one or more records QS_OFFL_SIR_JOPM_2_00221227119503_00221227119504_0001 Ocean Altmeter Range, SSHA, SWH and Backstater Qualty Flag QS_OFFL_SIR_JOPM_2_002212271190318_0021227119515_0001 Ocean Altmeter Range, SSHA, SWH and Backstater Qualty Flag QS_OFFL_SIR_JOPM_2_002212271191315_0001 Ocean Altmeter Range, SSHA, SWH and Backstater Qualty Flag QS_OFFL_SIR_JOPM_2_002212271191315_0021227119115_0001 OCOCA Altmeter Range, SSHA, SWH and Backstater Qualty Flags have been tor one or more records QS_OFFL_SIR_JOPM_2_002212271191315_002212271191315_0001 OCOCA Altmeter Range, SSHA, SWH and Backstater Qualty Flags have been tor one or more records QS_OFFL_SIR_JOPM_2_002212271191315_00221227119131_00221227119213_CO01 OCOCA Altmeter Range, SSHA, SWH and Backstater Qualty Flags have been tor one or more records QS_OFFL_SIR_JOPM_2_00221227119131_00221227119213_CO01 OCCCA Altmeter Range, SSHA, SWH and Backstater Qualty Flags have been tor one or more records QS_OFFL_SIR_JOPM_2_00221227119313_00221227119213_C001 OCCCA Altmeter Range, SSHA, SWH and Backstater Qualty Flags have been tor one or more records QS_OFFL_SIR_JOPM_2_00221227119313_00211207119222_0001 Ocean Altmeter Range, SSHA, SWH and Backstater Qualty Flags have been tor one or more records QS_OFFL_SIR_JOPM_2_00212271194241_0021227119335_0001 Ocean Altmeter Range, SSHA, SWH and Backstater Qualty Flags have been tor one or more records QS_OFFL_SIR_JOPM_2_002122771194458_00211227119355_0001 Ocean Altmeter Range, SS
GS_OFFL_SIR_IOPM_2_20221227T18664_2001 and Backscatter Quality. GOGA and the abcscatter Quality. Flags have b GS_OFFL_SIR_IOPM_2_20221227T18618_20221227T18150_001 Decan Altimeter Range, SHA, SWH and Backscatter Quality. Flags have b GS_OFFL_SIR_IOPM_2_20221227T18151_0021227T18151_00201 DCGA Altimeter Range Quality. GOGA GS_OFFL_SIR_IOPM_2_20221227T18153_00221227T18151_00201 DCGA Altimeter Range Quality. GOGA GS_OFFL_SIR_IOPM_2_20221227T18153_02021227T18151_00201 DCGA Altimeter Range Quality. GOGA GS_OFFL_SIR_IOPM_2_20221227T181531_00221227T18151_00201 DCGA Altimeter Range Quality. GOGA GS_OFFL_SIR_IOPM_2_20221227T181531_00221227T18151_00201 DCGA Altimeter Range Quality. GOGA GS_OFFL_SIR_IOPM_2_20221227T181531_00221227T181547_0001 DCGA Altimeter Range, SNA, SWH and Backscatter Quality Flags have bear to one or more records GS_OFFL_SIR_IOPM_2_20221227T1813021_20221227T1814247_0001 DCGA Altimeter Range, SNA, SWH and Backscatter Quality. Flags have bear to one or more records GS_OFFL_SIR_IOPM_2_20221227T183021_20221227T180242_0001 DCGA Altimeter Range, SNA, SWH and Backscatter Quality. Flags have bear to one or more records GS_OFFL_SIR_IOPM_2_20221227T184455_00211227T180242_0001 DCGA Altimeter Range, SNA, SWH and Backscatter Quality. Flags have bear to one or more records GS_OFFL_SIR_IOPM_2_20221227T184456_00211227T180542_0001 DCGA Altimeter Range, SNA, SWH and Backscatter Quality. Flags have bear to one or more records GS_OFFL_SIR_IOPM_2_20221227T184458_0021227T195614_0001 DCGA Altimeter R
CS_OFFL_SIR_IOPM_2_20221227T180818_20221227T18150_0001 and Backscatter Quality. OCOG Attimeter Range and Backscatter Quality. GCOG Backscatter Quality. GCOG Attimeter Range. SNA. SWH and Backscatter Quality. GCOG Attimeter Range. SNA. SWH and Dackscatter Quality. Flags have be set for one or more records GS_OFFL_SIR_IOPM_2_20221227T183251_20221227T193353_COO1 CCCAA Itimeter Range. SNA. SWH and Backscatter Quality. GCOG Attimeter Range and Backscatter Quality. Flags have been for one or more records GS_OFFL_SIR_IOPM_2_20221227T195351_20221227T195319_20221227T195319_20221227T195322_CO01 CCCGA Attimeter Range Quality. CCCG Attimeter Range Quality. CCCG Attimeter Range Quality. CCCG Attimeter Range Quality. CCCG The OCC
US_OFFL_SIR_IOPM_2_0021227T18133_20221227T182135_C001 Backscatter Quality for one or more records GS_OFFL_SIR_IOPM_2_0021227T18133_20221227T182135_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_0021227T184265_20221227T184247_C001 Ocoarn Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_0021227T184456_20221227T180222_C001 Cocarn Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_0021227T184456_20221227T180222_C001 Cocarn Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_0021227T184456_20221227T189353_C001 Cocarn Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_20221227T195421_20221227T195044_C001 Cocan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_20221227T195819_20221227T195842_C001 Cocan Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_20221227T195848_0221227T195842_C001 COCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records GS_OFFL_SIR_IOPM_2_20221227T195848_
US_OFFL_SIR_IOPM_2_20221227T183021_20221227T183021_20221227T184247_C001 Decen Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have b and the COCG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195814_C001 OCCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195842_C001 OCCG Altimeter Range Quality, OCCG The OCCG Alt
S2_OFFL_SIR_IOPM_2_20221227T183021_20221227T184247_C001 and Backscatter Quality, COGG and the OCGG Altimeter Range and Backscatter Quality Set for one or more records GS_OFFL_SIR_IOPM_2_20221227T184456_20221227T190222_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T192421_20221227T193353_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T192421_20221227T193353_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T193455_20221227T195044_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T193555_0221227T195044_C001 Ocean Altimeter Range and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T195319_20221227T195814_C001 Ocean Altimeter Range Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T195814_C001 OCOG Altimeter Range Quality, OCOG The OCCG Altimeter Range and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T195842_2021 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T195842_2021 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have b GS_OFFL_SIR_IOPM_2_20221227T195848_20221227T195842_C0011 OCOG Altimeter Range Quality
CS_OFFL_SIR_IOPM_2_20221227T194456_20221227T190222_0001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T192421_20221227T193535_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20221227T193355_00211227T195044_C001 Ocean Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records CS_OFFL_SIR_IOPM_2_20221227T195319_20221227T195814_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG The OCGG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195814_0001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_02221227T195842_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_02221227T195842_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more record
CS_OFFL_SIR_IOPM_2_20221227T192421_20221227T193353_C001 and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have b Attimeter Range and Backscatter Quality, Flags have b and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have b and the OCOG Attimeter Range and Backscatter Quality Flags have b and the OCOG Attimeter Range and Backscatter Quality Flags have b and the OCOG Attimeter Range and Backscatter Quality Flags have b and the OCOG Attimeter Range and Backscatter Quality Flags have b and the OCOG Attimeter Range and Backscatter Quality Flags have b and the OCOG Attimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195319_20221227T195814_C001 OCOG Attimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195831_20221227T195842_C001 OCOG Attimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_20221227T195842_C001 OCOG Attimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_20221227T200004_C001 OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T203001_20221227T203228_C001 OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T210229_20221227T210240_C001 OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T210249_C001 OCOG Attimeter
CS_OFFL_SIR_IOPM_2_20221227T193555_20221227T195044_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have be ackscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records CS_OFFL_SIR_IOPM_2_20221227T195319_20221227T195814_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195831_20221227T195842_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_20221227T195842_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_20221227T200004_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T203001_20221227T203228_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T210229_20221227T210240_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records </td
CS_OFFL_SIR_IOPM_2_20221227T195319_20221227T195814_C001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPM_2_20221227T195831_20221227T195842_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_20221227T200004_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T203001_20221227T203028_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T203001_20221227T203228_C001 Ocean Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T210229_20221227T210240_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T211346_20221227T210240_C001 Ocean Altimeter Range, SSHA, SWH The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T211346_20221227T210240_C001 Ocean Altimeter Range,
CS_OFFL_SIR_IOPM_2_2022122/T195848_2022122/T195844_C001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPM_2_20221227T195848_20221227T200004_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T203001_20221227T203001_20221227T203228_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range Quality, OCOG CS_OFFL_SIR_IOPM_2_20221227T210229_20221227T210240_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T210240_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T211346_20221227T212957_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20221227T1995848_20221227T203004_C001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPM_2_20221227T203001_20221227T203228_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 have b CS_OFFL_SIR_IOPM_2_20221227T210229_20221227T210240_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T210240_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T211346_20221227T2112957_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flag
CS_OFFL_SIR_IOPM_2_20221227T203001_20221227T203228_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have b set for one or more records CS_OFFL_SIR_IOPM_2_20221227T210229_20221227T210240_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records CS_OFFL_SIR_IOPM_2_20221227T210240_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20221227T2110229_20221227T2110240_C001 Backscatter Quality for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have b
CS_OFFL_SIR_IOPM_2_20221227T211346_20221227T212957_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have b
Altimeter Range and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20221227T213308_20221227T213741_C001 OCOG Altimeter Range Quality, OCOG for one or more records for one or more records
CS_OFFL_SIR_IOPM_2_20221227T213803_20221227T213935_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20221227T214415_20221227T220853_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have b Altimeter Range and Backscatter Quality, occog and the OCOG Altimeter Range and Backscatter Quality Flags have b Altimeter Range and Backscatter Quality
CS_OFFL_SIR_IOPM_2_20221227T224349_20221227T230920_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Set or one or more records CS_OFFL_SIR_IOPM_2_20221227T224349_20221227T230920_C001
CS_OFFL_SIR_IOPM_2_20221227T231138_20221227T231644_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20221227T231703_20221227T232027_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20221227T232359_20221227T235100_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Set for one or more records CS_OFFL_SIR_IOPM_2_20221227T232359_20221227T235100_C001 CS_OFFL_SIR_IOPM_2_20221227T232359_20221227T235100_C001 CS_OFFL_SIR_IOPM_2_20221227T232359_20221227T235100_C001 CS_OFFL_SIR_IOPM_2_20221227T232359_20221227T235100_C001 CS_OFFL_SIR_IOPM_2_20221227T232359_20221227T235100_C001 CS_OFFL_SIR_IOPM_2_20221227T232359_20221227T235100_C001 CS_OFFL_SIR_IOPM_2_20221227T235100_C001 CS_OFFL_SIR_IOPM_2_2022 CS_OFFL_SIR_IOPM_2_2022 CS_OFFL_SIR_IOPM_2_2022 CS_OFFL_SIR_IOPM_2_202 CS_OFFL_SIR_IOPM_2_202 CS_OFFL_SIR_IOPM_2_202 CS_OFFL_S
CS_OFFL_SIR_IOPM_2_20221227T235226_20221227T235529_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have b Altimeter Range and Backscatter Quality Flags have b
CS_OFFL_SIR_IOPN_2_20221227T005937_20221227T010002_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG set for one or more records

CS_OFFL_SIR_IOPN_2_20221227T014756_20221227T014852_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_20221227T023026_20221227T023039_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_20221227T043559_20221227T043644_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_20221227T104427_20221227T104455_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_20221227T105004_20221227T105035_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_20221227T114025_20221227T114155_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_20221227T204054_20221227T204058_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_20221227T213044_20221227T213308_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_20221227T005030_20221227T005035_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_20221227T122446_20221227T122603_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_20221227T173720_20221227T173728_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_20221227T173751_20221227T173832_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_20221227T193353_20221227T193404_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_20221227T193406_20221227T193555_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_20221227T195044_20221227T195134_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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

90

rrors:	with err	products	mber of	Ν
--------	----------	----------	---------	---

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20221227T000044_20221227T000217_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_20221227T004820_20221227T005004_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_20221227T005937_20221227T010002_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20221227T012124_20221227T012309_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_20221227T014101_20221227T014217_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_20221227T022922_20221227T022959_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_20221227T025953_20221227T030028_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_20221227T032017_20221227T032142_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_20221227T032652_20221227T032958_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_20221227T043559_20221227T043644_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_20221227T050056_20221227T050347_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_20221227T050555_20221227T051119_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_20221227T055023_20221227T055117_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_20221227T055649_20221227T060113_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_20221227T064031_20221227T064307_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_20221227T071850_20221227T072202_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_20221227T073548_20221227T073659_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_20221227T081535_20221227T081726_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_20221227T091509_20221227T091733_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_20221227T095754_20221227T095944_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_20221227T100158_20221227T100210_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_20221227T105503_20221227T105932_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_20221227T110505_20221227T110734_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_20221227T114025_20221227T114155_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_20221227T114617_20221227T114907_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_20221227T123712_20221227T124201_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_20221227T132646_20221227T132800_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_20221227T141616_20221227T141749_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_20221227T141830_20221227T142025_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_20221227T145654_20221227T150012_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_20221227T150524_20221227T150649_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_20221227T152707_20221227T153019_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_20221227T164430_20221227T164538_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_20221227T172329_20221227T172500_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_20221227T182135_20221227T182322_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_20221227T190258_20221227T190720_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_20221227T192027_20221227T192421_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_20221227T195134_20221227T195319_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_20221227T200004_20221227T200616_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_20221227T203713_20221227T203836_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_20221227T204152_20221227T204605_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_20221227T213936_20221227T214249_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_20221227T222040_20221227T222428_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_20221227T223443_20221227T223555_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_20221227T001229_20221227T001517_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_20221227T005016_20221227T005028_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_20221227T005158_20221227T005937_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_20221227T010003_20221227T010256_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_20221227T010302_20221227T010435_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_20221227T010954_20221227T011052_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_20221227T023039_20221227T023743_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_20221227T023743_20221227T023908_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_20221227T024258_20221227T024646_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_20221227T025048_20221227T025227_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_20221227T040715_20221227T040747_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_20221227T040943_20221227T041643_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_20221227T041643_20221227T042100_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_20221227T045420_20221227T050056_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_20221227T055117_20221227T055537_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_20221227T055537_20221227T055649_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_20221227T062015_20221227T062111_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_20221227T063442_20221227T064031_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_20221227T072915_20221227T073400_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_20221227T084631_20221227T084725_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_20221227T084728_20221227T085133_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_20221227T085133_20221227T085327_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_20221227T085329_20221227T085446_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_20221227T090857_20221227T091509_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_20221227T092051_20221227T092307_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_20221227T104624_20221227T104847_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_20221227T113452_20221227T113729_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_20221227T122751_20221227T123712_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_20221227T133429_20221227T133838_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_20221227T140116_20221227T140446_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_20221227T140828_20221227T141616_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_20221227T145346_20221227T145654_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_20221227T154026_20221227T154502_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_20221227T154846_20221227T155626_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_20221227T155628_20221227T155838_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_20221227T164538_20221227T164912_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_20221227T172805_20221227T173529_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_20221227T173707_20221227T173714_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_20221227T173717_20221227T173718_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_20221227T173732_20221227T173749_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_20221227T182322_20221227T182646_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_20221227T190720_20221227T191433_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_20221227T203228_2022122	27T203358_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_20221227T204606_2022122	27T205300_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_20221227T222429_2022122	27T223303_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_20221227T232144_2022122	27T232359_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records			
L2 Quality Flags (1 Hz & 1 Hz PLRM)						
Currently, there are several common flags raised in	n the Level 2 products, whi	ch are summarised below.				
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These	flags are currently set for pro	ducts over sea ice, which is to be expecte	d. The number of products with this error flag set is given below.			
Number of products with errors:	196					
5.8 L2 Ocean Retracking Quality Che	eck					
L2 Retracking Flags (20 Hz)						
CryoSat L2 data includes an ocean retracking quality f	lag for each 20 Hz measurem	ent record. The bit value of this flag indica	tes any problems when set.			
> Ocean Retracking Quality Flag: This flag is curren	tly set for products over land	and sea ice, but this is to be expected. Th	e number of products with this error flag set is given below.			
Number of products with errors:	56					
L2 Retracking Flags (20 Hz PLRM)						
CryoSat L2 data includes an ocean retracking quality f	lag for each 20 Hz PLRM me	asurement record. The bit value of this flag	j indicates any problems when set.			
> Ocean Retracking Quality Flag (PLRM): This flag given below.	is currently set for products IC	OPR and IOPN products over sea ice, but	this is to be expected. The number of products with this error flag set is			
Number of products with errors:	160					
	6. <mark>IOP</mark> L2 P	ole-to-Pole Data Quality	Check			
6.1 P2P Product Format Check						
Each product, retrieved and unpacked from the scienc	e server, is checked to ensur	e it consists of both an XML header file (.H	IDR) 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 ne	rformed on the MPH and SPI	l in order to identify any inconsistancies a	nd/or errors raised by the ground-segment processing chain.			
Number of products with errors:		The order to identify any inconsistencies at	ion errors raised by the ground-segment processing chain.			
	-					
6.3 P2P Auxiliary Data File Usage Ch	neck					
Each product is checked for missing Data Set Descrip	tors with respect to a pre-dete	ermined baseline and also to check the va	idity of Auxiliary Data Files is correct.			
Number of products with errors:	0					
6.4 P2P Auxiliary Correction Error C	heck					
For all products, the auxiliary corrections within the Ge	ophysical 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,						
		• •	to surface type. All common flags are summarised in the list below,			
followed by a table highlighting any additional issues > ECMWF Meteo Corrections: Currently the following	ues which may arise from t	nis check. d over CONTINENTAL ICE: Dry Troposph	to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below.	ues which may arise from t g corrections are not compute f the ECMWF model wind ver	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI	neric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components o	ues which may arise from t g corrections are not compute f the ECMWF model wind ver value is currently set for proc	his check. d over CONTINENTAL ICE: Dry Troposph tor. This is a known anomaly (CRYO-COF ucts over sea ice, but this is to be expected	neric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set if	ues which may arise from t g corrections are not compute f the ECMWF model wind ver value is currently set for proc for products over land and se	his check. d over CONTINENTAL ICE: Dry Troposph tor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected.	heric Correction, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set > Mean Dynamic Topography: The error value is cur	ues which may arise from to g corrections are not compute f the ECMWF model wind ver value is currently set for proc for products over land and se mently set for products over la	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. nd and sea ice, but this is to be expected.	neric Correction, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set if	ues which may arise from to g corrections are not compute f the ECMWF model wind ver value is currently set for proc for products over land and se mently set for products over la	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. nd and sea ice, but this is to be expected.	neric Correction, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set if > Mean Dynamic Topography: The error value is cur > Altimetric Wind Speed Error: The error value is cur Number of products with errors:	ues which may arise from to g corrections are not compute f the ECMWF model wind ver- value is currently set for proce- for products over land and se rrently set for products over la irrently set for products over la	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. Ind and sea ice, but this is to be expected. and and sea ice, but this is to be expected.	neric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ad.			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set if > Mean Dynamic Topography: The error value is currently set if > Altimetric Wind Speed Error: The error value is currently set if > Altimetric Wind Speed Error: The error value is currently set if > Mean Sea Surface: The error value is currently set if > Mean Dynamic Topography: The error value is currently set if > Mean Sea Surface: The error value is currently set if > Mean Dynamic Topography: The error value is currently set if > Mean Sea State Bias A Sea S	ues which may arise from to g corrections are not compute f the ECMWF model wind ver- value is currently set for proce- for products over land and se rrently set for products over la irrently set for products over la	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. and and sea ice, but this is to be expected. and and sea ice, but this is to be expected. Test Failed	P-3) and will be resolved in a future IPF update. The affected products are ed.			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set if > Mean Dynamic Topography: The error value is cur > Altimetric Wind Speed Error: The error value is cur Number of products with errors:	ues which may arise from t g corrections are not compute f the ECMWF model wind ver value is currently set for proc for products over land and se rrently set for products over la rrently set for products over l 29	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. Ind and sea ice, but this is to be expected. and and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1)	P-3) and will be resolved in a future IPF update. The affected products are ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set > Mean Dynamic Topography: The error value is cur > Altimetric Wind Speed Error: The error value is cur Number of products with errors: Product	ues which may arise from t g corrections are not compute f the ECMWF model wind ver value is currently set for proc for products over land and se rently set for products over la urrently set for products over l 29	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. Ind and sea ice, but this is to be expected and and sea ice, but this is to be expected Test Failed Mean Sea Surface (1), Mean Dynamic	P-3) and will be resolved in a future IPF update. The affected products are ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set if > Mean Dynamic Topography: The error value is cur > Altimetric Wind Speed Error: The error value is cur Number of products with errors: Product CS_OFFL_SIR_IOP_2_20221227T000733_2022122	ues which may arise from t or corrections are not compute f the ECMWF model wind ver- value is currently set for proc for products over land and se rrently set for products over la urrently set for products over la 29 277005709_C001	his check. d over CONTINENTAL ICE: Dry Troposph ctor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. and and sea ice, but this is to be expected. and and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	P-3) and will be resolved in a future IPF update. The affected products are ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic			
followed by a table highlighting any additional issu > ECMWF Meteo Corrections: Currently the following Correction and the U-Wind and V-Wind components of not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error > Mean Sea Surface: The error value is currently set if > Mean Dynamic Topography: The error value is cur > Altimetric Wind Speed Error: The error value is cur Number of products with errors: Product CS_OFFL_SIR_IOP_2_20221227T000733_2022122	ues which may arise from t or corrections are not compute f the ECMWF model wind ver value is currently set for products for products over land and se rrently set for products over la 29 27T005709_C001 27T014648_C001 27T023624_C001	his check. d over CONTINENTAL ICE: Dry Troposph tor. This is a known anomaly (CRYO-COI ucts over sea ice, but this is to be expected a ice, but this is to be expected. and and sea ice, but this is to be expected. and and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	P-3) and will be resolved in a future IPF update. The affected products are ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)			

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

CS_OFFL_SIR_IOP_2_20221227T041538_20221227T050517_C001

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

CS_OFFL_SIR_IOP_2_202	21227T082346_20221227T091322_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
Number of products with er Product		Test Failed	Description
	measurement confidence flag for each 20-Hz mea	asurement record. The bit value of this flag ind	icates any problems when set.
3.5 P2P Measureme	nt Confidence Data Check		
S_OFFL_SIR_IOP_2202	21227T231659_20221228T000635_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_2202	21227T222720_20221227T231659_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T213744_20221227T222720_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T204805_20221227T213744_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T195829_20221227T204805_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T190851_20221227T195829_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T181914_20221227T190851_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T172936_20221227T181914_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T164000_20221227T172936_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2202	21227T155021_20221227T164000_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2_202	21227T150045_20221227T155021_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2202	21227T141107_20221227T150045_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T132130_20221227T141107_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T123152_20221227T132130_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2202	21227T114216_20221227T123152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T105237_20221227T114216_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T100301_20221227T105237_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2_202	21227T091322_20221227T100301_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
CS_OFFL_SIR_IOP_2202	21227T082346_20221227T091322_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
S_OFFL_SIR_IOP_2_202	21227T073408_20221227T082346_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
S_OFFL_SIR_IOP_2202	21227T064431_20221227T073408_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynam Topography height (solution 1)
S_OFFL_SIR_IOP_2202	21227T055453_20221227T064431_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
		Topography (1)	Topography height (solution 1)

6.6 P2P Measurement Quality Flag Check

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

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

 Number of products with errors:
 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

29

30

Number of products with errors:

P2P Retracking Flags PLRM

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

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

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	193	193	4	189	0
SIR_IOPR1B	132	107	0	107	0
SIR_IOPN1B	107	132	0	132	0
SIR_IOPM_2	193	193	145	48	0
SIR_IOPR_2	132	107	39	68	0
SIR_IOPN_2	107	132	40	90	2
SIR_IOP_P2P	29	29	0	27	2

7.1 QCC Errors

Number of QCC	c reports with er	rors:	12								
					Total number	of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_IOPR_2	2	2	2	2	2	2					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	2	2	2	2							

Test Description Key:	est Description Key:					
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7				
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7				
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				

7.2 QCC Warnings

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	hber of occurrences of ea MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRM	
SIR IOPM1B	189	0	0	0	0	0	0	
SIR IOPM 2	0	0	33	31	0	41	0	
SIR IOPN1B	106	0	0	0	0	0	0	
SIR IOPN 2	0	0	10	39	6	27	30	
SIR IOPR1B	129	0	0	0	0	0	0	
SIR IOPR 2	0	2	34	51	1	23	23	
SIR_IOPR_2	0	2	34	51	1	23	23	
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	
SIR_IOPM1B	0	0	0	0	0	0	0	
SIR IOPM 2	36	0	27	0	0	0	0	
SIR IOPN1B	0	0	0	0	0	0	0	
SIR IOPN 2	21	1	0	0	27	0	37	
SIR IOPR1B	0	0	0	0	0	0	0	
SIR IOPR 2	8	5	0	54	0	64	0	
	-	-	1-	1	1-	1		
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	
SIR_IOPM1B	0	0	0	0	0	0	0	
SIR_IOPM_2	23	0	0	5	22	0	6	
SIR_IOPN1B	0	0	0	0	0	0	0	
SIR_IOPN_2	0	0	33	17	41	59	32	
SIR IOPR1B	0	0	0	0	0	0	0	
SIR_IOPR_2	0	50	0	2	74	35	9	
	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF				SCSTODHRNCDF	SCSTODNCDF	
Product Type				SPHRTASCNSNCDF	SOOHHIFHD			
SIR_IOPM1B	0	0	0	1	0	0		
SIR_IOPM_2	34	0	3	1	0	0	0	
SIR_IOPN1B	0	0	0	0	0	52	1	
SIR_IOPN_2	32	32	15	1	2	0	0	
SIR_IOPR1B	0	0	0	0	0	132	7	
SIR_IOPR_2	38	53	0	0	3	0	0	
Due de et Teme	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC		
Product Type	15	27	29		28	17	28	
SIR_IOP_2_	10	21	29	1	20	17	20	
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNC	
SIR_IOP_2_	6	16	28	23	17	29	18	
							-	
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCD		SPHLPQWNCDF	•	-	
SIR_IOP_2_	24	28	17	14	29			
Product Type	-	-	-	-	-	-	-	

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 NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for 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 NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	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 F	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
RSWHOEPFDPLRMNC DF	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
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
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
·	1	1

7.3 Missing QCC Reports

Number of products with missing QCC reports: 0