

QA4EO Daily Report for IOP data:

<u>16/05/2020</u>

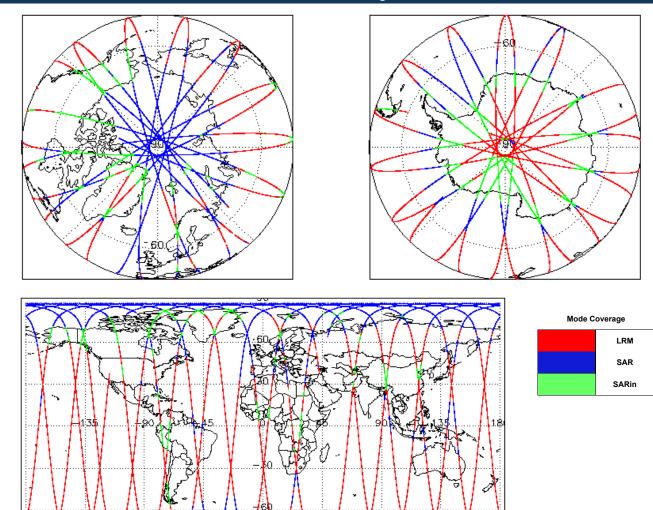
Demont Dreductions	10 May 2020	Check	L1 & L2	P2P
Report Production:	19-May-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrueSet Occor Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Dala Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

1. Overview

Mission / Instrument News 15-May-2020 None 16-May-2020 None

17-May-2020 Nothing planned

2. Global Coverage



3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

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 incons	sistencies and/or errors raised by the ground-segment processing chain.		
L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the 11b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.				
Number of products with errors: 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 cl	neck 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	d. The bit value of this flag indicates	any problems when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurem	ent record. The bit value of this flag	g indicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR produ	cts due to a configuration issue. Th	is is being investigated and will be updated in the next SW update.		
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20200516T132328_20200516T132741_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more		
		records		
4.6 L1B Waveform Group Data Check				
CryoSat L1B data includes a waveform data flag for each measurement record	. The bit value of this flag indicates	any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.			
Number of products with errors: 19				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20200516T140617_20200516T141522_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T054259_20200516T054419_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T072210_20200516T072316_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T090123_20200516T090709_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T103440_20200516T103510_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T153236_20200516T153510_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T184818_20200516T184857_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T185110_20200516T185246_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T195415_20200516T195842_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200516T234254_20200516T234715_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T005818_20200516T010006_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T035237_20200516T035443_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T040259_20200516T040719_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T072750_20200516T072936_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T090709_20200516T090932_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T094254_20200516T094447_C001 CS_OFFL_SIR_IOPR1B_20200516T134058_20200516T134436_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T153510_20200516T154232_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200516T184351_20200516T184351_20200516T184708_C001	Loss of Echo	The tracking echo is missing for one or more records		
5. IO	P Level 2 Data Quali	ty Check		
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).				
Number of products with errors: 0				
5.2 L2 Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any incons	sistencies and/or errors raised by the ground-segment processing chain.		

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

5.4 L2 Auxiliary Correction Error Check

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

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 Corection, 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.

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> 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_IOPN_2_20200516T013414_20200516T013729_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_20200516T022525_20200516T022622_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200516T031311_20200516T031627_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_20200516T044745_20200516T045022_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_20200516T045215_20200516T045806_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_20200516T054259_20200516T054419_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_20200516T062555_20200516T062919_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_20200516T072210_20200516T072316_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_20200516T080515_20200516T080715_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200516T090123_20200516T090709_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_20200516T094448_20200516T094605_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200516T112407_20200516T112528_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200516T112619_20200516T112812_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_20200516T130356_20200516T130721_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_20200516T140237_20200516T140511_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200516T144259_20200516T144619_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_20200516T153236_20200516T153510_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20200516T163022_20200516T163143_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_20200516T171308_20200516T171412_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_20200516T180732_20200516T180933_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_20200516T195415_20200516T195842_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200516T212649_20200516T212905_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200516T234254_20200516T234715_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_20200516T003832_20200516T004604_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_20200516T004922_20200516T005139_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200516T005517_20200516T005704_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200516T021346_20200516T022401_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_20200516T022401_20200516T022525_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_20200516T035557_20200516T040259_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_20200516T040259_20200516T040719_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_20200516T053540_20200516T054149_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_20200516T054149_20200516T054258_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_20200516T062422_20200516T062554_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20200516T071527_20200516T071640_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200516T071643_20200516T071724_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200516T071734_20200516T071952_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_20200516T071952_20200516T072210_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_20200516T085548_20200516T090123_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_20200516T103638_20200516T104141_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_20200516T121351_20200516T122341_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_20200516T135428_20200516T140237_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_20200516T152347_20200516T152715_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200516T153511_20200516T154232_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_20200516T171412_20200516T172128_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_20200516T184351_20200516T184709_C001	Mean Sea Surface (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 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_20200516T185326_20200516T190015_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_20200516T203159_20200516T203723_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_20200516T221022_20200516T221321_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_20200516T221322_20200516T221936_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_20200516T234715_20200516T235458_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
1

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200516T132328_20200516T132741_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more record

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200516T000104_20200516T003521_C001	5	The Ocean Altimeter Range, SSHA, SWH 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_20200516T004825_20200516T004922_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_20200516T010712_20200516T010736_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_20200516T012033_20200516T012155_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_20200516T012845_20200516T013413_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_20200516T014035_20200516T021345_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_20200516T022705_20200516T022844_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_20200516T022902_20200516T022910_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_20200516T024624_20200516T030442_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_20200516T030806_20200516T031310_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_20200516T031916_20200516T035237_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_20200516T041749_20200516T044046_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_20200516T045927_20200516T051102_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_20200516T051223_20200516T051420_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_20200516T052115_20200516T053053_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_20200516T054419_20200516T054655_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_20200516T054838_20200516T060530_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_20200516T060731_20200516T062157_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_20200516T062919_20200516T063125_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_20200516T063219_20200516T063627_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_20200516T063826_20200516T065103_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_20200516T065540_20200516T070501_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_20200516T072316_20200516T072406_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_20200516T073159_20200516T074430_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_20200516T074955_20200516T080335_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_20200516T080715_20200516T081529_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_20200516T081802_20200516T083353_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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Control Description Description Description Description Control Control Control Control Description	CS_OFFL_SIR_IOPM_2_20200516T083656_20200516T084214_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
00.0011_201_0014_2_000001111000_0001111101 Biolocotor Quarty ever or an encross. 00.0011_201_0014_2_0000011110002_0000011110000_0011 Open History Range Status https://www.status 00.0011_201_0014_2_0000011110002_0000011110000_0011 Open History Range Status https://www.status 00.0011_201_0014_2_0000011110002_000011110000_0011 Open History Range Status https://www.status 00.0011_201_0014_2_0000011110000_00011110000_0011 Open History Range Status https://www.status 00.0011_201_0014_2_0000011110000_00011110000_00011 Open History Range Status https://www.status 00.0011_201_0014_2_0000011110000_00011110000_00011 Open History Range Status https://www.status 00.0011_201_0014_2_0000011110000_00011110000_00011 Open History Range Status https://www.status 00.0011_201_0014_2_0000011110000_000111100000_00011110000_00011110000_00011110000_00011110000_000	CS_OFFL_SIR_IOPM_2_20200516T090933_20200516T091540_C001		
BL_PER_LER_UDRUZ_20000111100012_0000111100001_0001 ave Bascatter Dally, GOD part De CODO Alterect Range and Bascatter Dally Rage Nace base BL_DER_LER_UDRUZ_20000111100001_000101 ODDO Alterect Range Cally, COD the ODD Alterect Range and Bascatter Dally Rage Nace base BL_DER_LER_UDRUZ_20000111100001_000101 ODDO Alterect Range Cally, COD the ODD Alterect Range Cally, COD BL_DER_LER_UDRUZ_20000111100001_0000011 ODDO Alterect Range Cally, COD the ODD Alterect Range Cally, COD BL_DER_LER_UDRUZ_20000111100001_0000011 ODDO Alterect Range Cally, COD the ODD Alterect Range, SOH, With and Dassatter Cally Rage Nace base of the ODD Alterect Range, SOH, With and Dassatter Cally Rage Nace base of the ODD Alterect Range, SOH, With and Dassatter Cally Rage Nace base of the ODD Alterect Range, SOH, With and Dassatter Cally Rage Nace base of the ODD Alterect Range, SOH, With and Dassatter Cally Rage Nace base of the ODD Alterect Range, SOH, With and Dassatter Cally Rage Nace base of the ODD Alterect Range, SOH, With and Dassatter Cally Rage Nace base of the ODD Alterect Range Cally, COD BL_DER_LER_UDRUZ_20000111110001_00001 ODD Alterect Range Cally, COD the ODD Alterect Range Cally, COD BL_DER_LER_UDRUZ_2000011110001_0001 ODD Alterect Range Cally, COD Alterect Range Cally,	CS_OFFL_SIR_IOPM_2_20200516T091954_20200516T092001_C001		
Lindown Jone Jone Jone Jone Jone Stress St	CS_OFFL_SIR_IOPM_2_20200516T092003_20200516T094254_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
City, Str. Unit, 2, 20200-01100897, 202003-01102890, COUNT Bestechter Gauty Korte en reverses. St. OFTL, SR. UOM 2, 20200-01102873, 202003-01102814, COUNT Count Ammon Range, SBAB, SUM The Obean Affender Range, SSAB, SUM CS, OFTL, SR. UOM 2, 20200-01110282, 202003-011102814, COUNT Count Ammon Range, SBAB, SUM The Obean Affender Range, SSAB, SUM CS, OFTL, SR. UOM 2, 20200-01110282, 202003-01110282, COUNT Count Affender Range, COUNT The Obean Affender Range, SSAB, SUM CS, OFTL, SR, UOM 2, 20200-01110282, 202003-01110282, COUNT COOD Affender Range County The Obean Affender Range and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the origon and Basscatter County Range how bean after the orin or in origon and Basscatter County Range how bean	CS_OFFL_SIR_IOPM_2_20200516T094605_20200516T094808_C001		
63. 0FTL_SIR_IOPM_2_2020516T102752_2020516T102763_0021 and Backardine Quality, COCG Mittered Range and Backardine Quality, COCG Mittered Range and Backardine Quality, COCG Amazar Range and Backardine Quality, COCG Amazar Range and Backardine Quality, COCG The COCG Alimeter Range Quality, COCG The COCG Alimeter Range, SDM, SNM and Backater Quality, Fage Interve State of Coce or in rane records. CS_OFFL_SR_IOPM_2_RECORD_2_RECORD SITT12551_COCT COCG Alimeter Range SDM, SNM Alimeter Range SDM, SNM and Backater Quality, Fage Interve SDM, Alimeter Range SDM, SNM and Backater Quality, Fage Interve SDM, Alimeter Range SDM, SO	CS_OFFL_SIR_IOPM_2_20200516T094847_20200516T095400_C001		
CSL_OFFL_SIR_IOPM_2_20200510T105408_20200510T112141_C001 Ind Baskcaster Quality DOCO CSL_OFFL_SIR_IOPM_2_20200510T102182_20200510T113146_C001 DOCO Attenues Reage Calably, OCOD Ins CODO Attenues Reage Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T102182_20200510T102182_C001 DOCOG Attenues Reage Calably, OCOD Ins CODO Attenues Reage Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T102082_20200510T102082_C001 DOCOG Attenues Reage Calably, OCOD The CODOA Attenues Reage Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T102082_20200510T102082_C001 DOCOG Attenues Reage Calably, OCOD The CODOA Attenues Reage Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T102082_20200510T102082_C001 DOCOG Attenues Reage Calably, OCOD The CODOA Attenues Reage Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T102082_20200510T102082_C001 DOCOG Attenues Reage Calably, OCOD The CODOA Attenues Reage Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T112108_000510T12108_0001 DOCOG Attenues Reage SIR4, SWH at Biodocatter Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T112108_000510T12208_000510T12208_0001 DOCOG Attenues Reage SIR4, SWH at Biodocatter Calably, OCOD CSL_OFFL_SIR_IOPM_2_20200510T13100_20200510T13208_0001 DOCOG Attenues Reage SIR4, SWH at Biodocatter Calably Plags have been set in the Cool Attenues Reage SIR4, SWH at Biodocatter Calably Plags have been set in the Cool Attenues Reage SIR4, SWH at Biodocatter Calably Plags have been set in the Cool Attenues Reage SIR4, SWH at Biodocatter Calably Plags have been set in the Cool Attenues Reage SIR4, SWH at Biodocatter Calably Plags have been se	CS_OFFL_SIR_IOPM_2_20200516T095735_20200516T102153_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CSUDECKLORM CAUGUSTIENT (2010) Backscatter (2010) Ear one or more records. CSLOFFL_SIR_UOPM_2_20200516T120357_20200516T120352_20201 COOD Altineter Range Quality, OCCO The OCCO Altineter Range and Buckscatter Quality Plags have been set the disc or more records. CSLOFFL_SIR_UOPM_2_20200516T120357_20200516T120352_20201 COOD Altineter Range Quality, OCCO The OCCO Altineter Range and Buckscatter Quality Plags have been set the disc or more records. CSLOFFL_SIR_UOPM_2_20200516T120357_20200516T120352_20201 COOD Altineter Range Quality, OCCO The OCCO Altineter Range and Buckscatter Quality Plags have been set the disc or more records. CSLOFFL_SIR_UOPM_2_20200516T120352_20200516T121351_2021 Coexin Altineter Range, SSHA, SWH and Buckscatter Quality Plags have been set the disc or more records. CSLOFFL_SIR_UOPM_2_20200516T122722_20200516T121351_2021 Coexin Altineter Range, SSHA, SWH and Buckscatter Quality, Plags have been set the disc or or more records. CSLOFFL_SIR_UOPM_2_20200516T120722_20200516T130724_2021 Coexin Altineter Range, SSHA, SWH and Buckscatter Quality, Plags have been set the disc or or more records. CSLOFFL_SIR_UOPM_2_20200516T130721_20200516T130724_2021 Coexin Altineter Range, SSHA, SWH and Buckscatter Quality, Plags have been set the disc or or more records. CSLOFFL_SIR_UOPM_2_20200516T130721_20200516T130721_20200516T13674_2021 Coexin Altineter Range, SSHA, SWH and Buckscatter Quality, Plags have been set the disc or or more records. CSLOFFL_SI	CS_OFFL_SIR_IOPM_2_20200516T105428_20200516T112141_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_DFH_SH_UPPL_CAUGUSTIGTIALS Eadescater Quality for one or more records. CS_OFFL_SIR_IOPM_2_20000516T120357_20200516T120165_0001 Badescater Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20000516T120126_0020510T120126_0001 DCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20000516T120126_000510T121126_0001 DCOG Altimeter Range QUALITY, ONE one or more records. CS_OFFL_SIR_IOPM_2_20000516T120126_000510T121126_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T120126_000510T120126_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T120126_000510T120126_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T130272_0000516T130208_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T130272_0000516T130282_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T130272_0000516T130282_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T130272_0000516T130282_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T130282_0001 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T130108_00005 DCOG Altimeter Range CNAIN CS_OFFL_SIR_IOPM_2_20000516T130108_0000516T1315116_0001 <td>CS_OFFL_SIR_IOPM_2_20200516T112812_20200516T113416_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOPM_2_20200516T112812_20200516T113416_C001		
CSUPPL_SR_UPPL_2.40000161110409_200011112409_0001 Backstatter Quality for one or more records. CS_OFFL_SIR_UPPL_2.20000161112008_20000161121025_0001 CCCQR Attracter Range SNA SWH The Ocean Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.200001611121022_00001611121032_0001 CCCR Attracter Range SNA SWH The Ocean Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.200001611122122_200200161112003_0001 CCCR Attracter Range SNA SWH The Ocean Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.200001611120721_200200161131247_0001 CCCR Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.20000161131047_0001 CCCR Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.202005161131048_0001 CCCR Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.202005161131049_202000161131049_20001 CCCR Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.202005161134088_0001 CCCR Attracter Range SNA SWH and Backstatter Quality Flags have been set for one or more records. CS_OFFL_SIR_UPPL_2.202005161134082_0001 CCCR Attracter Range SNA SWH and Backstatt	CS_OFFL_SIR_IOPM_2_20200516T120347_20200516T120352_C001		
Cal, DFIL_SIR_JOPM_2_20200516T121218_20200516T121285_C0001 Can Attimeter Range, SHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags and the COCG Attimeter Range and Backscatter Quality Flags and the COCG Attimeter Range and Backscatter Quality Flags and the COCG Attimeter Range and Backscatter Quality Flags and the COCG Attimeter Range and Backscatter Quality Flags and the COCG Attimeter Range and Backscatter Quality Flags and the COCG Attimeter Range and Backscatter Quality Flags and the COCG Attimeter Range and Backscatter Quality Flags are been Attimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T130721_20200516T131247_C001 OCG Attimeter Range Quality, COCG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T131509_20200516T132038_C001 DOEA Attimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T131509_20200516T131008_C001 DOEA Attimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T131008_20200516T13108_C001 DOEA Attimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T13108_20200516T13108_C001 DOEA Attimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T13108_20200516T13108_20200516T135108_20200516T135108_20200516T135108_20200516T135108_20200516T13528_C001 OCGA Attimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T135108_20200516T13528_C001 COCGA Attimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T135128_20200516T135428_C001 COCGA Attimeter Range SHA, SWH and Backscatter Quality Flags have been se	CS_OFFL_SIR_IOPM_2_20200516T120357_20200516T120450_C001		
CE_DFFL_SIR_IOPM_2_20200516T121216_20200516T121315_001 and Backscatter Quality COCG and Backscatter Quality COCG and Backscatter Quality Flags have been CB_OFFL_SIR_IOPM_2_20200516T122722_20200516T130036_C001 Cocma Alimeter Range SSHA, SWH The Obsort Alimeter Range SSHA, SWH CB_OFFL_SIR_IOPM_2_20200516T130721_20200516T131247_C001 OCCM Alimeter Range Quality, OCCG The Obsort Alimeter Range and Backscatter Quality Flags have been CB_OFFL_SIR_IOPM_2_20200516T130721_20200516T1312037_C001 OCCM Alimeter Range Quality, OCCG The Obsort Alimeter Range and Backscatter Quality Flags have been set CB_OFFL_SIR_IOPM_2_20200516T131006_20200516T131008_C001 OCCM Alimeter Range Quality, OCCG The Obsort Alimeter Range and Backscatter Quality Flags have been set CB_OFFL_SIR_IOPM_2_20200516T134006_20200516T134058_C001 OCCM Alimeter Range Quality, OCCG The Obsort Alimeter Range and Backscatter Quality Flags have been set CB_OFFL_SIR_IOPM_2_20200516T135106_20200516T135116_C001 Ocean Alimeter Range, SHA, SWH The OCCG Alimeter Range and Backscatter Quality Flags have been CB_OFFL_SIR_IOPM_2_20200516T135125_20200516T135126_20200	CS_OFFL_SIR_IOPM_2_20200516T120825_20200516T121025_C001		
CS_OFFL_SIR_JOPM_2_20200516T122722_20200516T130036_C001 and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, GCCG Backscatter Quality, GCCG Backscatter Quality, GCCG Backscatter Quality, GCCG Backscatter Quality, GCCG Altimeter Range SSHA_SWH and backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T131007_120200516T132038_C001 CCGCA Itimeter Range Guality, GCCG Altimeter Range and Backscatter Quality, Flags and backscatter Quality, COCG Altimeter Range Guality, QCCG Altimeter Range and Backscatter Quality, Flags and backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags and backscatter Quality, Flags and backscatter Quality, Flags and backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags and backscatter Quality, Flags and backscatter Quality, Flags and backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200516T1410617_20200516T141027_20200516T1414027_20200516T14140	CS_OFFL_SIR_IOPM_2_20200516T121218_20200516T121351_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_PFL_SIR_IOPM_2_20200516T13026_20200516T132038_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20200516T131509_20200516T132038_C001 Coesan Altmeter Range. SNA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, Plags have been set for one or more records. The Occan Altmeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T135106_20200516T135106_20200516T135116_C001 Occan Altmeter Range, SNA, SWH and Backscatter Quality, COCG Altmeter Range, SNA, SWH and Backscatter Quality, Plags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T135106_20200516T13516_C001 Occean Altmeter Range, SNA, SWH and Backscatter Quality, COCG Altmeter Range, SNA, SWH and Backscatter Quality, Plags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T135126_20200516T135428_C001 Ocean Altmeter Range, SNA, SWH and Backscatter Quality, COCG Altmeter Range, SNA, SWH and Backscatter Quality, COCG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range, SNA, SWH and Backscatter Quality, COCG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range and Backscatter Quality, Plags have been at the OCGG Altmeter Range a	CS_OFFL_SIR_IOPM_2_20200516T122722_20200516T130036_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200516T13509_20200516T132038_C001 and Backscatter Quality, COCG and the OCOG Altimeter Range and Backscatter Quality Flags have been act CS_OFFL_SIR_IOPM_2_20200516T134006_20200516T134058_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been act CS_OFFL_SIR_IOPM_2_20200516T135106_20200516T135116_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20200516T135105_20200516T135125_20200516T135428_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20200516T136125_20200516T135428_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20200516T140617_20200516T141522_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20200516T141807_20200516T141622_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20200516T141807_20200516T144022_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20200516T144027_2001 Ocean Altimeter Range Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been atter CS_OFFL_SIR_IOPM_2_20200516T144027_20200516T144022_C001 OCOG Altimeter Range Quality, OCOG The Ocean Altimeter Range SSHA, SWH and Backscatter Quality Flags have been atte	CS_OFFL_SIR_IOPM_2_20200516T130721_20200516T131247_C001		
CS_OFFL_SIR_IOPM_2_20200516T134006_20200516T135116_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20200516T135106_20200516T135116_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T14525_20200516T145137_C001 OCGG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T145425_20200516T154353_C001 OCGG Altimeter Range Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154356_20200516T154353_C001 OCCGG Altimeter Range Quality, COCG Backscatter Quality, SOCG The OCCGG Altimeter Range and Backscatter Quality	CS_OFFL_SIR_IOPM_2_20200516T131509_20200516T132038_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200516T135106_20200516T135116_C001 and Backscatter Quality, OCOG Altimeter Range, SHA, SWH and Backscatter Quality, OCOG Altimeter Range, SHA, SWH and Backscatter Quality, Plags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SHA, SWH and Backscatter Quality, Plags and the OCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T140617_20200516T141522_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, OCOG Altimeter Range, SHA, SWH and Backscatter Quality, OCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, Flags and the OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T141672_20200516T145137_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T145427_20200516T154353_C001 OCCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154356_20200516T154356_20200516T154356_20200516T154356_202000516T154356_20200516T154356_20200516T154356_20200516T1	CS_OFFL_SIR_IOPM_2_20200516T134006_20200516T134058_C001		
CS_OFFL_SIR_IOPM_2_20200516T135125_20200516T135428_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20200516T140617_20200516T141522_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20200516T141807_20200516T141522_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T144728_20200516T145137_C001 OCCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T145427_20200516T151311_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154255_20200516T154353_C001 OCCGA Altimeter Range Quality, OCOG Backscatter Quality The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154356_2020	CS_OFFL_SIR_IOPM_2_20200516T135106_20200516T135116_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200516T140617_20200516T141522_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T141807_20200516T144002_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T144728_20200516T144022_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T144728_20200516T145137_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T145427_20200516T151311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154255_20200516T154353_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154356_20200516T154410_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCCGA Altimeter Range and Backscatter Quality Flags have been set 	CS_OFFL_SIR_IOPM_2_20200516T135125_20200516T135428_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200516T141807_20200516T144022_C001 and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T144728_20200516T145137_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_20200516T145427_20200516T151311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154255_20200516T154353_C001 Ocean 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_20200516T154356_20200516T154410_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_20200516T154356_20200516T154410_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_20200516T154507_20200516T154306_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200516T140617_20200516T141522_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_202005161144728_202005161143137_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20200516T145427_20200516T151311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154255_20200516T154353_C001 OCCOG Altimeter Range Quality, OCOG Backscatter 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_20200516T154356_20200516T154410_C001 OCOG Altimeter Range Quality, OCOG Backscatter 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_20200516T154356_20200516T154410_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154507_20200516T161836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200516T141807_20200516T144022_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200516T145427_20200516T151311_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154255_20200516T154353_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_20200516T154356_20200516T154410_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_20200516T154356_20200516T154410_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_20200516T154507_20200516T161836_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 and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200516T144728_20200516T145137_C001		
CS_OFFL_SIR_IOPM_2_202005161154255_202005161154353_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154356_20200516T154410_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154356_20200516T154410_C001 OCOG Altimeter Range, SSHA, SWH The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154507_20200516T161836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200516T145427_20200516T151311_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_202005161154356_202005161154410_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_20200516T154507_20200516T161836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200516T154255_20200516T154353_C001		
CS_OFFL_SIR_IOPM_2_20200516T154507_20200516T161836_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200516T154356_20200516T154410_C001		
	CS_OFFL_SIR_IOPM_2_20200516T154507_20200516T161836_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20200516T162141_20200516T162622_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_20200516T162642_20200516T163022_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_20200516T163722_20200516T170844_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_20200516T171030_20200516T171307_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_20200516T172526_20200516T172549_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_20200516T172753_20200516T173600_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_20200516T174317_20200516T175807_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_20200516T180004_20200516T180520_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_20200516T180555_20200516T180732_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_20200516T181533_20200516T182858_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_20200516T183307_20200516T184351_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_20200516T191038_20200516T191842_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_20200516T192241_20200516T193656_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_20200516T193930_20200516T194431_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_20200516T194455_20200516T194505_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_20200516T194509_20200516T194610_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_20200516T195304_20200516T195415_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_20200516T195842_20200516T200537_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_20200516T201001_20200516T201450_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_20200516T201733_20200516T202321_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_20200516T205358_20200516T211541_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_20200516T212000_20200516T212347_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_20200516T213026_20200516T215744_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_20200516T223039_20200516T225550_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_20200516T225742_20200516T230301_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_20200516T230308_20200516T230634_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_20200516T231005_20200516T234254_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_20200516T130356_20200516T130721_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_20200516T071527_20200516T071640_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_20200516T120457_20200516T120514_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200516T003717_20200516T003832_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_20200516T010737_20200516T010950_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_20200516T010956_20200516T011054_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_20200516T022910_20200516T023029_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_20200516T024353_20200516T024623_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_20200516T045215_20200516T045806_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_20200516T054259_20200516T054419_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_20200516T054655_20200516T054812_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_20200516T062251_20200516T062421_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_20200516T071725_20200516T071734_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_20200516T072648_20200516T072750_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_20200516T074431_20200516T074955_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_20200516T081529_20200516T081716_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_20200516T084215_20200516T084602_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_20200516T090123_20200516T090709_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_20200516T094448_20200516T094605_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_20200516T095401_20200516T095639_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_20200516T102154_20200516T102254_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_20200516T113416_20200516T113542_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_20200516T122342_20200516T122722_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_20200516T130356_20200516T130721_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_20200516T135019_20200516T135106_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_20200516T145137_20200516T145300_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_20200516T151312_20200516T151637_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_20200516T153236_20200516T153510_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_20200516T161951_20200516T162141_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_20200516T163022_20200516T163143_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_20200516T171308_20200516T171412_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_20200516T175828_20200516T180004_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_20200516T184818_20200516T184857_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_20200516T185110_20200516T185246_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_20200516T185246_20200516T185326_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_20200516T190746_20200516T191038_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_20200516T200537_20200516T201001_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_20200516T201450_20200516T201612_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_20200516T204757_20200516T205157_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_20200516T211648_20200516T212000_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_20200516T220442_20200516T221021_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_20200516T222634_20200516T222806_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_20200516T225615_20200516T225742_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_20200515T235859_20200516T000103_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_20200516T003636_20200516T003717_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_20200516T003832_20200516T004604_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_20200516T004922_20200516T005139_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_20200516T005517_20200516T005704_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_20200516T005818_20200516T010006_C001 OCOG Alumeter Range OCOG Backscatter Qual	Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200516T011744_20200516T012033_C001 OCOG Altimeter Range OCOG Backscatter Qual	
CS_OFFL_SIR_IOPR_2_20200516T013729_20200516T014035_C001 CS_OFFL_SIR_IOPR_2_20200516T013729_20200516T014035_C001 Altimeter Range and Bac PLRM	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T021346_20200516T022401_C001 Ocean Altimeter Range, Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T023101_20200516T023302_C001 OCOG Altimeter Range OCOG Backscatter Qual	
CS_OFFL_SIR_IOPR_2_20200516T023530_20200516T023733_C001 Attimeter Range, And Backscatter Quality Attimeter Range and Backscatter Ran	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T031627_20200516T031916_C001 Additional and Backscatter Quality PLRM	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T035557_20200516T040259_C001 Attimeter Range, And Backscatter Quality Attimeter Range and Backscatter Ran	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T040259_20200516T040719_C001 CS_OFFL_SIR_IOPR_2_20200516T040719_C001 CS_OFFL_SIR_IOPR_2_200070070000000000000000000000000000	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T044046_20200516T044744_C001 Attimeter Range, And Backscatter Quality Attimeter Range and Backscatter Ran	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T053540_20200516T054149_C001 Attimeter Range, and Backscatter Quality Attimeter Range and Bac PLRM	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T062422_20200516T062554_C001 CS_OFFL_SIR_IOPR_2_20200516T062422_20200516T062554_C001 Altimeter Range, and Backscatter Quality Altimeter Range, and Backscatter Quality PLRM	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T071734_20200516T071952_C001 CS_OFFL_SIR_IOPR_2_20200516T071952_C001 CS_OFFL_SIR_IOPR_2_20200516T071734_20200516T071952_C001 CS_OFFL_SIR_IOPR_2_20200516T071952_C001 CS_OFFL_SIR_IOPR_2_20200516T071734_20200516T071952_C001 CS_OFFL_SIR_IOPR_2_20200516T071734_20200516T071952_C001 CS_OFFL_SIR_IOPR_2_20200516T071952_C001 CS_OFFL_SIR_IOPR_202005 CS_OFF	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T071952_20200516T072210_C001 Ocean Altimeter Range, Altimeter Range and Backscatter Quality Altimeter Range and Backplane	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T073118_20200516T073159_C001 OCOG Altimeter Range OCOG Backscatter Qual	
CS_OFFL_SIR_IOPR_2_20200516T080336_20200516T080515_C001 Attimeter Range, Attimeter Range and Backscatter Quality Attimeter Range and Backscatter Quality PLRM	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T083353_20200516T083623_C001 OCOG Altimeter Range OCOG Backscatter Qual	
CS_OFFL_SIR_IOPR_2_20200516T085425_20200516T085548_C001 Attimeter Range, Attimeter Range, Attimeter Range and Backscatter Quality Attimeter Range and Backscatter Range and Back	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T085548_20200516T090123_C001 Altimeter Range, and Backscatter Quality Altimeter Range and Bac PLRM	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T103234_20200516T103440_C001 Attimeter Range, And Backscatter Quality Attimeter Range and Backscatter Ran	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T103638_20200516T104141_C001 CS_OFFL_SIR_IOPR_2_20200516T103638_20200516T104141_C001 Altimeter Range, and Backscatter Quality Altimeter Range, and Backscatter Quality PLRM	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T121025_20200516T121218_C001 OCOG Altimeter Range OCOG Backscatter Qual	
CS_OFFL_SIR_IOPR_2_20200516T121351_20200516T122341_C001 Ocean Altimeter Range, Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T130037_20200516T130356_C001 Ocean Altimeter Range, Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T131405_20200516T131509_C001 Ocean Altimeter Range, Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality	PLRM, OCOG
CS_OFFL_SIR_IOPR_2_20200516T132038_20200516T132328_C001 OCOG Altimeter Range OCOG Backscatter Qual	

CS_OFFL_SIR_IOPR_2_20200516T134722_20200516T135003_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_20200516T135428_20200516T140237_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_20200516T144022_20200516T144258_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_20200516T152347_20200516T152715_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_20200516T153117_20200516T153235_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_20200516T153511_20200516T154232_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_20200516T163144_20200516T163722_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_20200516T171412_20200516T172128_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_20200516T180933_20200516T181533_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_20200516T182859_20200516T183112_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPR_2_20200516T184351_20200516T184709_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_20200516T184857_20200516T185110_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_20200516T185326_20200516T190015_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_20200516T201613_20200516T201733_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPR_2_20200516T202443_20200516T202650_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_20200516T203159_20200516T203723_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_20200516T221022_20200516T221321_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_20200516T221322_20200516T221936_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_20200516T230757_20200516T231005_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_20200516T234715_20200516T235458_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_20200516T235756_20200516T235949_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

L2 Retracl	kina Fla	as (20Hz	. PLRM)

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

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

160

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200515T235404_20200516T004339_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200516T004339_20200516T013318_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T013318_20200516T022252_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200516T022252_20200516T031231_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T031231_20200516T040206_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20200516T040206_20200516T045145_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T045145_20200516T054119_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T054119_20200516T063058_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_220200516T063058_20200516T072033_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200516T072033_20200516T081012_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T081012_20200516T085947_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T085947_20200516T094926_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_220200516T094926_20200516T103900_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T103900_20200516T112839_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200516T112839_20200516T121814_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200516T121814_20200516T130753_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T130753_20200516T135727_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_220200516T135727_20200516T144706_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T144706_20200516T153641_C001	Topography (1), Total Geocentric Ocean	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_220200516T153641_20200516T162620_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T162620_20200516T171555_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T171555_20200516T180533_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T180533_20200516T185508_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200516T185508_20200516T194447_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T194447_20200516T203422_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200516T203422_20200516T212401_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T212401_20200516T221335_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20200516T221335_20200516T230314_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200516T230314_20200516T235249_C001		There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

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6.5 P2P Measurement Confidence Data Check

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

Number of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200516T130753_20200516T135727_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.				
Number of products with errors:	29			

Number	or products	with errors.	

P2P Quality Flags (20Hz PLRM)

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

 Number of products with errors:
 30

P2P Quality Flags (1 Hz & 1Hz PLRM) Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. Number of products with errors: 30 6.8 P2P Ocean Retracking Quality Check P2P Retracking Flags (20Hz) Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected. Number of products with errors: 30 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:

30