

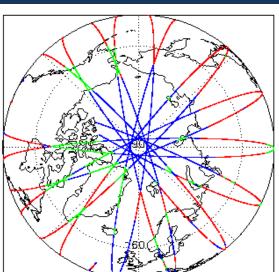
QA4EO Daily Report for IOP data:

<u>15/08/2020</u>

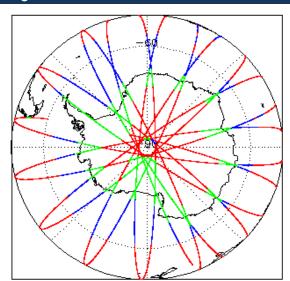
Papart Braduction	18 Aug 2020	Check	L1 & L2	P2P
Report Production:	18-Aug-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data 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
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2
		þ	1	
Mission / Instrument Ne	ews			
14-Aug-2020 None				

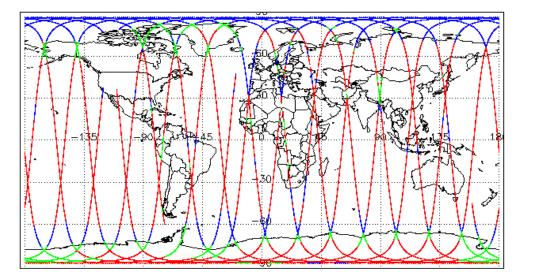
1. Overview

Mission / Instru	ment News
14-Aug-2020	None
15-Aug-2020	None
16-Aug-2020	Nothing planned













3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and S	SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain.		
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B I	OPR and IOPN products because the I1b_r	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-c	letermined baseline and also to check the v	alidity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record.	The bit value of this flag indicates any prob	lems 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 measureme	nt record. The bit value of this flag indicates	s any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR product	s due to a configuration issue. This 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_20200815T045325_20200815T050021_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 proble	ems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this is to				
Number of products with errors: 18				
		Presidentia		
Product CS_OFFL_SIR_IOPM1B_20200815T061702_20200815T061955_C001	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPM1B_20200815T130742_20200815T132224_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPM1B_20200815T141738_20200815T143321_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T012910_20200815T013030_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T013335_20200815T013559_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T031237_20200815T031447_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T044745_20200815T045238_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T111829_20200815T112133_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T125934_20200815T130032_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T143321_20200815T143620_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T143733_20200815T143948_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20200815T212346_20200815T212440_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200815T084614_20200815T085024_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200815T092746_20200815T093049_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200815T194159_20200815T194231_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200815T215806_20200815T220218_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200815T225126_20200815T225845_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20200815T231048_20200815T231328_C001	Loss of Echo	The tracking echo is missing for one or more records		
5. IOP Level 2 Data Quality Check				
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).				
umber of products with errors: 0				
5.2 L2 Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.				
Number of products with errors: 0				
5 2 1 2 Auviliany Data File Usage Chask				
5.3 L2 Auxiliary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre-	letermined baseline and also to check the v	alidity of Auxiliary Data Files is correct.		
umber of products with errors: 0				

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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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_IOPM_2_20200815T031448_20200815T032835_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20200815T075733_20200815T080132_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20200815T180624_20200815T180655_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_20200815T003401_20200815T003636_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_20200815T004213_20200815T004456_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_20200815T012910_20200815T013030_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_20200815T013335_20200815T013559_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_20200815T020921_20200815T021528_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_20200815T030832_20200815T031047_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_20200815T035130_20200815T035320_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_20200815T040148_20200815T040336_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_20200815T044745_20200815T045238_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_20200815T062033_20200815T062109_C001	Mean Dynamic Topography (1) мean Sea Surrace (1), мean Dynamic	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200815T071219_20200815T071432_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Fauilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200815T085025_20200815T085340_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_20200815T102912_20200815T103232_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_20200815T103757_20200815T103922_C001	Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_IOPN_2_20200815T111829_20200815T112133_C001	Topography (1), Total Geocentric Ocean Tide (GOT)	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200815T121610_20200815T121707_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_20200815T121707_20200815T121747_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_20200815T135349_20200815T135559_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_20200815T143733_20200815T143948_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_20200815T161415_20200815T161813_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_20200815T171340_20200815T171539_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_20200815T210944_20200815T211209_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200815T220218_20200815T220344_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_20200815T220855_20200815T221200_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_20200815T234246_20200815T234544_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_20200815T234758_20200815T235318_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_20200815T012145_20200815T012759_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_20200815T012800_20200815T012909_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_20200815T015133_20200815T015346_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20200815T030140_20200815T030333_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20200815T030411_20200815T030548_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_20200815T030548_20200815T030831_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_20200815T044128_20200815T044745_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_20200815T062258_20200815T062809_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_20200815T075057_20200815T075258_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_20200815T080200_20200815T081002_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_20200815T094048_20200815T094913_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_20200815T112133_20200815T112924_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_20200815T130033_20200815T130615_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_20200815T143948_20200815T144641_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_20200815T161813_20200815T162335_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_20200815T175636_20200815T180623_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_20200815T193537_20200815T194130_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_20200815T195209_20200815T195254_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_20200815T211323_20200815T211945_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_20200815T211946_20200815T212133_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_20200815T225126_20200815T225845_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_20200815T225846_20200815T230047_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
	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200815T000035_20200815T000253_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_20200815T000402_20200815T002701_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T003636_20200815T003829_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20200815T004615_20200815T010100_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_20200815T010732_20200815T011513_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_20200815T013031_20200815T013335_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_20200815T013559_20200815T015132_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_20200815T015347_20200815T020804_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_20200815T021528_20200815T021743_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_20200815T021824_20200815T022242_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_20200815T022512_20200815T023921_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_20200815T024100_20200815T025711_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_20200815T031448_20200815T032835_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_20200815T033526_20200815T034906_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_20200815T035320_20200815T040147_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_20200815T040513_20200815T042649_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_20200815T045325_20200815T050021_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_20200815T050239_20200815T052844_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_20200815T053225_20200815T053420_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_20200815T053512_20200815T054000_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_20200815T054457_20200815T054530_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_20200815T054642_20200815T060859_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_20200815T061702_20200815T061955_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_20200815T062109_20200815T062203_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_20200815T064135_20200815T070702_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_20200815T071432_20200815T072029_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_20200815T072344_20200815T074529_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_20200815T075733_20200815T080132_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_20200815T081313_20200815T084613_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_20200815T085341_20200815T085901_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_20200815T090252_20200815T090420_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T090537_20200815T090659_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T093642_20200815T094048_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T094914_20200815T094919_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T095221_20200815T100141_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T100427_20200815T102543_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T103232_20200815T103344_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_20200815T103350_20200815T103757_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_20200815T104316_20200815T105302_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T105450_20200815T110054_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T110231_20200815T110723_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T112924_20200815T120426_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T120739_20200815T121243_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_20200815T121303_20200815T121609_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_20200815T122343_20200815T125455_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T125612_20200815T125800_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_20200815T125801_20200815T125933_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_20200815T130742_20200815T132224_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T132410_20200815T134359_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T134634_20200815T135142_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_20200815T135220_20200815T135348_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_20200815T140126_20200815T141119_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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T141738_20200815T143321_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 beer set for one or more records.
	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 beer set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T144642_20200815T150726_C001	rame buoksoutter Quality	
CS_OFFL_SIR_IOPM_2_20200815T144642_20200815T150726_C001 CS_OFFL_SIR_IOPM_2_20200815T150906_20200815T152240_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 bee

Description Reserved Output Reserved Output In or an intermediate CD_COL_CRE_UPUD_ZEDEXPTOTUDE_COUTDITUDECOUTDITUDE_COUTDITUDUECCOUTDITUDE_COUTDITUDUECOUTDITUDE_COUTDITUDE_COUT			· · · · · · · · · · · · · · · · · · ·
BJ GPFL BR. OPP 2 302041711522 200010115240. D001 and bioscant Quity D000 QUITL BR. OPP 2 302041715242 200010115244. D001 Doca Allows Fingue BBS, BPH QUITL BR. OPP 2 302041715242 200010115244. D001 Doca Allows Fingue BBS, BPH QUITL BR. OPP 2 302041715242 200010115244. D001 Doca Allows Fingue BBS, BPH QUITL BR. OPP 2 302041715242 2000101151418. D001 Doca Allows Fingue BBS, BPH QUITT DR. OPP 2 302041715242 20001011151418. D001 Doca Allows Fingue BBS, BPH QUITT DR. OPP 2 3020417151404 200010111118. D001 Doca Allows Fingue BBS, BPH QUITT DR. OPP 2 3020417151404 200010111118. D001 Doca Allows Fingue BBS, BPH QUITT DR. OPP 2 3020417111104 200101111118. D001 Doca Allows Fingue BBS, BPH QUITT DR. OPP 2 3020417111104 200101111118. D001 DOCA Allows Fingue BBS, BPH QUITT DR. OPP 2 3020417111104 20010111111111111 DOCA Allows Fingue BBS, BPH QUITT DR. OPP 2 30204171111104 20010111111111111111111111111111	CS_OFFL_SIR_IOPM_2_20200815T152553_20200815T153054_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
 CH, DHL JRLOPM Z. 2020015116582. 2020015116596. 2017 CH, DHL JRLOPM Z. 2020015116582. 2020015116116.001 CH, SHL JRM Z. 2020015116082. 2020015116116.001 CH, SHL JRM Z. 2020015116082. 202001511618	CS_OFFL_SIR_IOPM_2_20200815T153932_20200815T154156_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CD: 041, SH, IOM 2. 2020015110448. 20200151101201 (2017) ext descaptor (4x1), SO(0) inter integra to descaptor (4x1), SO(0) CD: 041, SH, IOM 2. 20200151101201, 20200151101201 (2017) Observations (4x2), SO(0), SO(0) inter integra control (4x2), SO(0), SO(0) CD: 041, SH, IOM 2. 20200151101201, 20200151101201 (2017) Observations (4x2), SO(0), SO(0) inter integra control (4x2), SO(0), SO(0) CD: 041, SH, IOM 2. 20200151101201, 20200151101201 (2017) Observations (4x2), SO(0),	CS_OFFL_SIR_IOPM_2_20200815T154242_20200815T155446_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2: 0FL SR (OPL 2 200015110060 2020015110052 _ 000015110057 _ 000	CS_OFFL_SIR_IOPM_2_20200815T155448_20200815T160116_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CBL_GPH_LSR_(OPM_2_T000H10114400_T000H101117007_001 and talk/cater Galing.COB and talk/cater Galing.COB CBL_GPH_LSR_(OPM_2_T000H10117007_000H10117001_C001 CODA Almeder Reage Caling.COB The CODA Almeder Reage Caling.COB CBL_GPH_LSR_(OPM_2_T000H10117007_0000H10117010_C001 CODA Almeder Reage Caling.COB The CODA Almeder Reage Caling.COB CBL_GPH_LSR_(OPM_2_T000H10117007_0000H10117010_C001 CODA Almeder Reage Caling.COB The CODA Almeder Reage Caling.COB CBL_GPH_LSR_(OPM_2_T000H10117017_000_000H10117011_C001 CODA Almeder Reage Caling.COB The CODA Almeder Reage Caling.COB CBL_GPH_LSR_(OPM_2_T000H10117017_000_000H10117011_C001 CODA Almeder Reage Caling.COB The CODA Almeder Reage Caling.COB CBL_GPH_LSR_(OPM_2_T000H10117017_000_000H101170101_C001 CODA Almeder Reage Caling.COB The CODA Almeder Reage Caling.COB CBL_GPH_LSR_(OPM_2_T000H101170107_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C001H101170412_C000H1011101012_C000H101170412_C000H101170412_C000H101170412_C00	CS_OFFL_SIR_IOPM_2_20200815T160400_20200815T161328_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Displace	CS_OFFL_SIR_IOPM_2_20200815T164005_20200815T170057_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sex. DFL_SR_OPM_22.000081511/1030_0001 Sex. Sector Dealty Sex. Sector	CS_OFFL_SIR_IOPM_2_20200815T170633_20200815T171011_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
 CGL_OFFL_SRL_UPHL_2_00008151717732_000081517177122_00008151719772_2000081517198400_C001 CGL_OFFL_SRL_UPHL_2_2000081517198578_2000081517198400_C001 CGL_OFFL_SRL_UPHL_2_2000081517198578_200008151719858_20000011200014_C001 CGL_OFFL_SRL_UPHL_2_2000081517198578_200008151719858_2000000001 CGL_OFFL_SRL_UPHL_2_20000815171920547_200008151719858_2000000001 CGL_OFFL_SRL_UPHL_2_20000815171920547_200000151719858_2000000001 CGL_OFFL_SRL_UPHL_2_2000081517203748_20000815721984_20001 CGL_OFFL_SRL_UPHL_2_200008157219253_20000815721984_20001 CGL_OFFL_SRL_UPHL_2_200008157219264_2000815721984_2000081572	CS_OFFL_SIR_IOPM_2_20200815T171033_20200815T171340_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_JOPM_2_20200815T18476_20200815T18425 and Backszeite Cuality and Backszeite Cuality CS_OFFL_SIR_JOPM_2_20200815T184486_20200815T18428_C001 OCGG Altimeter Range Outlity, OCGG The OCGG Altimeter Range and Backszeiter Cuality Flags have been affinister Range, SSHA, SWH CS_OFFL_SIR_JOPM_2_20200815T184486_20200815T18428_C001 OCGG Altimeter Range, SSHA, SWH The OCGG Altimeter Range, SSHA, SWH and Backszeiter Cuality Flags have been affinister Range, SSHA, SWH and Backszeiter Cuality Flags have been affinister Range, SSHA, SWH and Backszeiter Cuality Flags have been affinister Range, SSHA, SWH and Backszeiter Cuality Flags and Backszeiter Cuality Flags and Backszeiter Cuality Flags have been affinister Range, SSHA, SWH and Backszeiter Cuality Flags have been affinister Range, SSHA, SWH and Backszeiter Cuality Flags have been affinister Range and Backszeiter Cuality Fl	CS_OFFL_SIR_IOPM_2_20200815T171732_20200815T174413_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OS_JPPL_SIR_UPPL_2.02008157169200_0001 Backscatter Quality for one or more records. CS_OFFL_SIR_UPPL_2.20208157169269_02008157169200_0001 Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Ba	CS_OFFL_SIR_IOPM_2_20200815T181702_20200815T184051_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20200815T194231_20200815T194239_0001 and Backazater Quality COG and the COG Altimeter Range and Backazater Quality Flags have been an	CS_OFFL_SIR_IOPM_2_20200815T184416_20200815T184926_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T14231_20200815T14239_0001 and Backscatter Quality COCG Attimeter Range and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimeter Range. SHA, SWH and Backscatter Quality Flags have been Attimete	CS_OFFL_SIR_IOPM_2_20200815T185656_20200815T193007_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20200815T20166_20200815T202014_C001 and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been and for one or more records. CS_OFFL_SIR_JOPM_2_20200815T203748_20200815T210043_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_JOPM_2_20200815T211250_20200815T211233_C001 OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_JOPM_2_20200815T211250_20200815T211233_C001 OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The OCEGA Altimeter Range, SSHA, SWH and Backscatter Quality The	CS_OFFL_SIR_IOPM_2_20200815T194231_20200815T194939_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815120304/_202008151203000_20001 Backscatter Quality for one or more records. CS_OFFL_SIR_IOPM_2_202008157203748_202008157210943_C001 Doesn Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatte	CS_OFFL_SIR_IOPM_2_20200815T201606_20200815T202014_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815T203748_20200815T211943_C001 and Backscatter Quality, CGG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimeter Range and Backscatter Quality Flags have been and the CCOG Altimet	CS_OFFL_SIR_IOPM_2_20200815T202417_20200815T203000_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T211250_20200815T211323_C001 and Backscatter Quality COCOG and Backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been all backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been all backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been Allimeter Range All	CS_OFFL_SIR_IOPM_2_20200815T203748_20200815T210943_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815T212210_20200815T212346_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T213335_20200815T215806_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPM_2_20200815T220344_20200815T220355_C001 OCGA Altimeter Range Quality, OCOG The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200815T221558_20200815T225126_C001 OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200815T221558_20200815T225126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200815T221558_20200815T225126_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality CCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality CCOG Altimeter Range and Backscatter Quality Flags have been and Ba	CS_OFFL_SIR_IOPM_2_20200815T211250_20200815T211323_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815T213835_20200815T215806_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_20200815T220344_20200815T220855_C001 OCOG Attimeter Range Quality, OCOG Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200815T230047_20200815T230314_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality The Ocean Attimeter Range, SSHA, SWH and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality The Ocean Attimeter Range, SSHA, SWH and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality The Ocean Attimeter Range, SSHA, SWH and	CS_OFFL_SIR_IOPM_2_20200815T212210_20200815T212346_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_202008151220344_202008151220344_202008151220344_202008151220344_202008151220344_202008151220344_202008151220344_202008151220344_202008151225126_C001 Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality, OCOG Alt	CS_OFFL_SIR_IOPM_2_20200815T213935_20200815T215806_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815T221558_20200815T225126_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200815T230047_20200815T230314_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 and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean 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, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range	CS_OFFL_SIR_IOPM_2_20200815T220344_20200815T220855_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200815T230047_20200815T230314_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T231328_20200815T231809_C001 Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T231809_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T231850_20200815T233745_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T231850_20200815T233745_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T231850_20200816T003033_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200815T221558_20200815T225126_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815T231328_20200815T231809_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T231850_20200815T233745_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T233785_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Ocean Altimeter Range, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200815T230047_20200815T230314_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815T231850_20200815T233745_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200815T231328_20200815T231809_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_IOPM_2_20200815T231850_20200815T233745_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOC Altimator Panas Quality OCOC Altimator Panas and Pastasatter Quality Flams have not	CS_OFFL_SIR_IOPM_2_20200815T235539_20200816T003033_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPN_2_20200815T085025_20200815T085340_C001 Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPN_2_20200815T085025_20200815T085340_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20200815T110055_20200815T110231_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200815T111556_20200815T111637_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_20200815T121707_20200815T121747_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_20200815T135349_20200815T135559_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_20200815T152407_20200815T152553_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_20200815T093052_20200815T093137_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_20200815T193537_20200815T194130_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200815T230314_20200815T231042_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: These flags are currently set for occasional records over sea ice.

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200815T003401_20200815T003636_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_20200815T003829_20200815T004209_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_20200815T020921_20200815T021528_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_20200815T022243_20200815T022419_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_20200815T033055_20200815T033526_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_20200815T042825_20200815T043204_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_20200815T043244_20200815T043351_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_20200815T044745_20200815T045238_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_20200815T053420_20200815T053511_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_20200815T072029_20200815T072158_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_20200815T081134_20200815T081313_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_20200815T085901_20200815T090020_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_20200815T091814_20200815T091919_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_20200815T093515_20200815T093532_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_20200815T094920_20200815T095057_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_20200815T102912_20200815T103232_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_20200815T103757_20200815T103922_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_20200815T110055_20200815T110231_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_20200815T111829_20200815T112133_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_20200815T125456_20200815T125612_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_20200815T135349_20200815T135559_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_20200815T141120_20200815T141225_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_20200815T143321_20200815T143620_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_20200815T143733_20200815T143948_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_20200815T163438_20200815T163823_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_20200815T180656_20200815T180703_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_20200815T181604_20200815T181625_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_20200815T184241_20200815T184416_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_20200815T193007_20200815T193355_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_20200815T203001_20200815T203030_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_IOPN_2_20200815T211215_20200815T211250_C001	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_20200815T211215_20200815T211250_C001 CS_OFFL_SIR_IOPN_2_20200815T212346_20200815T212440_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM,	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20200815T212346_20200815T212440_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20200815T212346_20200815T212440_C001 CS_OFFL_SIR_IOPN_2_20200815T220855_20200815T221200_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM,	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20200815T212346_20200815T212440_C001 CS_OFFL_SIR_IOPN_2_20200815T220855_20200815T221200_C001 CS_OFFL_SIR_IOPN_2_20200815T234246_20200815T234544_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200815T2346_20200815T212440_C001 CS_OFFL_SIR_IOPN_2_20200815T220855_20200815T221200_C001 CS_OFFL_SIR_IOPN_2_20200815T234246_20200815T234544_C001 CS_OFFL_SIR_IOPN_2_20200815T234758_20200815T235318_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200815T2346_20200815T212440_C001 CS_OFFL_SIR_IOPN_2_20200815T220855_20200815T221200_C001 CS_OFFL_SIR_IOPN_2_20200815T234246_20200815T234544_C001 CS_OFFL_SIR_IOPN_2_20200815T234758_20200815T235318_C001 CS_OFFL_SIR_IOPR_2_20200815T002702_20200815T003400_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags
CS_OFFL_SIR_IOPN_2_20200815T2346_20200815T212440_C001 CS_OFFL_SIR_IOPN_2_20200815T220855_20200815T221200_C001 CS_OFFL_SIR_IOPN_2_20200815T234246_20200815T234544_C001 CS_OFFL_SIR_IOPN_2_20200815T234758_20200815T235318_C001 CS_OFFL_SIR_IOPR_2_20200815T002702_20200815T003400_C001 CS_OFFL_SIR_IOPR_2_20200815T012145_20200815T012759_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200815T212346_20200815T212440_C001 CS_OFFL_SIR_IOPN_2_20200815T220855_20200815T221200_C001 CS_OFFL_SIR_IOPN_2_20200815T234246_20200815T234544_C001 CS_OFFL_SIR_IOPN_2_20200815T234758_20200815T235318_C001 CS_OFFL_SIR_IOPR_2_20200815T002702_20200815T003400_C001 CS_OFFL_SIR_IOPR_2_20200815T012145_20200815T012759_C001 CS_OFFL_SIR_IOPR_2_20200815T015133_20200815T015346_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200815T212346_20200815T212440_C001 CS_OFFL_SIR_IOPN_2_20200815T220855_20200815T221200_C001 CS_OFFL_SIR_IOPN_2_20200815T234246_20200815T234544_C001 CS_OFFL_SIR_IOPN_2_20200815T234758_20200815T235318_C001 CS_OFFL_SIR_IOPR_2_20200815T002702_20200815T003400_C001 CS_OFFL_SIR_IOPR_2_20200815T012145_20200815T012759_C001 CS_OFFL_SIR_IOPR_2_20200815T015133_20200815T015346_C001 CS_OFFL_SIR_IOPR_2_20200815T044128_20200815T044745_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_JOPR 2_202008151707000_202008151707103_C001 Dog An Almeter Range, SSH, SMH and Backscatter Cuality Flags have been self or one of mere records. CS_OFFL_SIR_JOPR 2_202008151707600_202008151707033_C001 OCCG Allmeter Range Cuality FLAR, COCO Al
CS_OFFL_SIR_JOPR_2_2020081510624_00008151067053_0001 OCCG Backstatter Quality Flags more records. CS_OFFL_SIR_JOPR_2_20200815106200_20200815108108_0001 OCCG Backstatter Quality FLAG, OCCG more records. CS_OFFL_SIR_JOPR_2_202008151068002_00200815108108_0001 OCCG Backstatter Quality FLAG, OCCG more records. CS_OFFL_SIR_JOPR_2_202008151080102_0001 OCCG Backstatter Quality FLAG, OCCG more records. CS_OFFL_SIR_JOPR_2_202008151102315_0001 OCCG Backstatter Quality FLAG, OCCG more records. CS_OFFL_SIR_JOPR_2_20200815110232_002008151102315_0001
GS_OFFL_SIR_LOPR_2_20200815T080200_20200815T081002_C001 and Backscatter Quality FLRM, QCCG Minimetr Range and Backscatter Quality FLRM, MCCG Allmeter Range and Backscatter Quality FLRM, SNH and Backscatte
CS_OFFL_SIR_JOPR_2_20200815T084614_20200815T085024_C001 and Backscatter Quality FLMM_COCQ and Backscatter Quality FLMM_COCQ CS_OFFL_SIR_JOPR_2_20200815T080021_20200815T080252_C001 Cocan Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T080025_20200815T0893157_C001 OCCO Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T08408_20200815T084913_C001 OCCO Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T08408_20200815T084913_C001 Alimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T108408_20200815T102912_C001 Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T108408_20200815T102912_C001 Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T10892_20200815T102912_C001 Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T102912_C001 Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPR_2_20200815T10292_20200815T10292_C001 Cocan Alimeter Range, SSHA, SWH and Backscatter Qua
GS_OFFL_SIR_IOPR_2_2020815T090021_20200815T090252_C001 and Backscatter Quality PLRM. OCOO Alimeter Range and Backscatter Quality PLRM. The OCOG Rainege and Backscatter Quality Flags have been at for one or more necords. CS_OFFL_SIR_IOPR_2_20200815T090052_0200815T0904913_C001 OCOG Alimeter Range and Backscatter Quality Flags Number Range SNA, SWH and Backscatter Quality Flags and the OCOG Rainege and Backscatter Quality Flags and the OCOG Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been affort one or more records. CS_OFFL_SIR_IOPR_2_20200815T102543_20200815T102912_C001 Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been Alimeter Range and Backscatter Quality Flam Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been affort one or more records. CS_OFFL_SIR_IOPR_2_20200815T102543_20200815T1102912_C001 Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been affort one or more records. The Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been affort one or more records. CS_OFFL_SIR_IOPR_2_20200815T112152_0200815T11292_C001 Ocean Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been affort one or more records. The Ocean A
CS_OFFL_SIR_IOPR_2_20200815109305_20200815109313/_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPR_2_20200815T094048_20200815T094913_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T102543_20200815T102912_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T102912_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T103922_20200815T104315_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T11233_20200815T112924_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T112032_20200815T112024_C001 Desan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T11303559_20200815T1140125_C001 Desan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T1150305_C001 OCCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_IOPR_2_20200815T152241_20200815T152265_20200815T159045_C001 OCCOA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records. CCOG Altimeter Range SSHA, SWH
GS_OFFL_SIR_IOPR_2_20200815T094048_20200815T094913_C001 and Backszatter Quality PLRM, does an Altmeter Range, SSHA, SWH and Backszatter Quality PLRS, Moccon Altmeter Range,
CS_OFFL_SIR_IOPR_2_20200815T102543_20200815T102912_C001 and Backscatter Quality Flags and Backscatter Quality
CS_OFFL_SIR_IOPR_2_20200815T103322_20200815T104315_C001 and Backscatter Quality PLRM_COG Attimeter Range and Backscatter Quality Plags and Backscatter Quality PLRM_COG Attimeter Range and Backscatter Quality Plags and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Plags and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the COG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T141525_20200815T141738_C001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T152265_20200815T152265_20200815T152255_20200815T152265_20200815T152
CS_OFFL_SIR_IOPR_2_20200815T112133_20200815T112924_C001 and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T141525_000815T140125_C001 Decean Altimeter Range and Backscatter Quality PLRM The OCCG Altimeter Range and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags and the OCCG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T141752_0000815T141738_C001 OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T152241_20200815T152255_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T152255_20200815T152406_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Cs_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Alti
CS_OFFL_SIR_IOPR_2_20200815T135559_20200815T140125_C001 and Backscatter Quality PLRM, 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_IOPR_2_20200815T141525_20200815T141738_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_20200815T150726_20200815T150905_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_20200815T152241_20200815T152255_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T152241_20200815T152255_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T152255_20200815T152406_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality
CS_OFFL_SIR_IOPR_2_202008151141525_202008151141738_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPR_2_20200815T150726_20200815T150905_C001 OCOG Backscatter 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_20200815T152241_20200815T152255_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. The OCean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T152255_20200815T152406_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Decean Attimeter Range and Backscatter Quality PLRM, OCOG Ocean Attimeter Range and Backscatter Quality Flags have been set for one or more records. Decean Attimet
CS_OFFL_SIR_IOPR_2_202008151150726_202008151150905_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_IOPR_2_20200815T152241_20200815T152255_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T152255_20200815T152406_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T162335_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality VERM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality VERM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The O
CS_OFFL_SIR_IOPR_2_20200815T152241_20200815T152255_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCGA Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality set for one or more records. CS_OFFL_SIR_IOPR_2_20200815T152255_20200815T152406_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200815T152255_20200815T152406_C001 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, SSHA, SWH and Backscatter Quality Flags het ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200815T161813_20200815T162335_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range, and Backscatter Quality PLRM, OCOG Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Decean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags
and Backscatter Quality PLRM_OCOGITHE Ocean Alumeter Range, SSHA, SWH and Backscatter Quality Flags
Altimeter Range and Backscatter Quality And the OCOG Altimeter Range and Backscatter Quality Flags have been PLRM
CS_OFFL_SIR_IOPR_2_20200815T185429_20200815T185656_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been been and been been been been been been been be
CS_OFFL_SIR_IOPR_2_20200815T193537_20200815T194130_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200815T195209_20200815T195254_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_20200815T202015_20200815T202254_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 have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20200815T203317_20200815T203747_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.
CS_OFFL_SIR_IOPR_2_20200815T211323_20200815T211945_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range 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_20200815T215806_20200815T220218_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.
CS_OFFL_SIR_IOPR_2_20200815T221200_20200815T221558_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20200815T225126_20200815T225845_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_20200815T231048_20200815T231328_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_20200815T235319_20200815T235539_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products	, which are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for	products over sea ice, which is to be expected	l.
Number of products with errors: 183		
5.8 L2 Ocean Retracking Quality Check		
L2 Retracking Flags (20Hz)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea	surement record. The bit value of this flag indic	ates any problems when set.
Ocean Retracking Quality Flag: This flag is currently set for products over la	nd and sea ice, but this is to be expected. The	number of products with this error flag set is given below.
Number of products with errors: 57		
L2 Retracking Flags (20Hz, PLRM)		
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR		
Ocean Retracking Quality Flag (PLRM): This flag is currently set for product Number of products with errors: 139	is IOPR and IOPN products over sea ice, but the	is is to be expected.
Number of products with errors. 139		
6. IOP L	2 Pole-to-Pole Data Quality	Check
6.1 P2P Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML header file (.	HDR) and a NetCDF product file (.nc).
Number of products with errors: 0		
6.2 P2P Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsistencies of	and/or arrans raised by the ground cogmont processing chain
Number of products with errors: 0	a Serri in order to identify any inconsistencies a	indior enors raised by the ground-segment processing chain.
A A DAD Availing Data File Usage Obsels		
6.3 P2P Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a provide the products with errors: 0	e-determined baseline and also to check the va	andity of Auxiliary Data Files is correct.
6.4 P2P Auxiliary Correction Error Check		
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr	he Level 2 products which are expected due	to surface type. All common flags are summarised in the list below,
> ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below.		
> Sea State Bias & Sea State Bias PLRM: The error value is currently set fo	r products over sea ice, but this is to be expect	ed.
> Mean Sea Surface: The error value is currently set for products over land a	•	
> Mean Dynamic Topography: The error value is currently set for products o	•	
> Altimetric Wind Speed Error: The error value is currently set for products of Number of products with errors: 30	over land and sea ice, but this is to be expected	1.
Product	Test Failed Mean Sea Surface (1), Mean Dynamic	Description There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOP_220200814T234821_20200815T003801_C001	Topography (1)	Topography height (solution 1)
CS_OFFL_SIR_IOP_220200815T003801_20200815T012736_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_20200815T012736_20200815T021715_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic	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_220200815T021715_20200815T030650_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_220200815T030650_20200815T035630_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_220200815T035630_20200815T044605_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_220200815T044605_20200815T053545_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_220200815T053545_20200815T062520_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surrace (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_2__20200815T062520_20200815T071459_C001

Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Fquilibrium Long Period

	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOP_2_20200815T071459_20200815T080434_C001	Topography (1)	Topography height (solution 1)
CS_OFFL_SIR_IOP_220200815T080434_20200815T085414_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_220200815T085414_20200815T094349_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_220200815T094349_20200815T103329_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_220200815T103329_20200815T112304_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_220200815T112304_20200815T121243_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_220200815T121243_20200815T130218_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_220200815T130218_20200815T135158_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_220200815T135158_20200815T144133_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_220200815T144133_20200815T153113_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_220200815T153113_20200815T162048_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_220200815T162048_20200815T171027_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_220200815T171027_20200815T180003_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_220200815T180003_20200815T184942_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_220200815T184942_20200815T193917_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_220200815T193917_20200815T202857_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_220200815T202857_20200815T211832_C001	Mean Sea Sunace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_220200815T211832_20200815T220812_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_220200815T220812_20200815T225747_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200815T225747_20200815T234726_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_220200815T234726_20200816T003701_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)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20200815T044605_20200815T053545_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.

1

30

Number of products with errors:

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

26

30

Number of products with errors:

P2P Retracking Flags PLRM

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

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

0

2178

Number of products with errors:

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	156	156	5	151	0
SIR_IOPR1B	104	99	3	96	0
SIR_IOPN1B	99	104	0	104	0
SIR_IOPM_2	156	156	102	54	0
SIR_IOPR_2	104	99	33	66	0
SIR_IOPN_2	99	104	31	73	0
SIR_IOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC reports with warnings

				per of occurrences of			
Product Type	AXSTAME	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRM
SIR_IOPM1B	0	151	0	0	0	0	0
SIR_IOPM_2	0	0	39	43	0	42	0
SIR_IOPN1B	0	96	0	0	0	0	0
SIR_IOPN_2	0	0	10	31	5	25	30
SIR_IOPR1B	1	101	0	0	0	0	0
SIR_IOPR_2	1	0	38	42	2	38	33
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSAR		DRPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR IOPM 2	34	0	36	0	0	0	0
SIR IOPN1B	0	0	0	0	0	0	0
SIR IOPN 2	20	0	0	0	28	0	33
SIR IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	24	1	0	42	0	52	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR IOPM1B	0	0	0	0	0		0
SIR IOPM 2	29			11	31		6
		0	0	11	0	0	0
SIR_IOPN1B	0	0	29	0	48		34
SIR_IOPN_2		0		19		50	-
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	42	0	2	62	38	8
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPM1B	0	0	0	0	0	0	
SIR_IOPM_2	38	0	7	0	0	0	
SIR_IOPN1B	0	0	0	0	41	1	
SIR_IOPN_2	29	30	10	2	0	0	
SIR IOPR1B	0	0	0	0	104	6	
SIR_IOPR_2	41	45	3	2	0	0	
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOP_2_	15	29	29	6	29	16	29
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD		RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCI
SIR IOP 2		17		25	25	29	18
SIK_IUP_2_	1	17	23	23	25	23	10
	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
Product Type							

Abbreviation	Test name	Details
AXSTAME	AttributeXrefStarTrackerAttcopMustExist	Existence of Attribute xref_star_tracker_attcop is mandatory
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0