

QA4EO Daily Report for IOP data:

<u>23/09/2022</u>

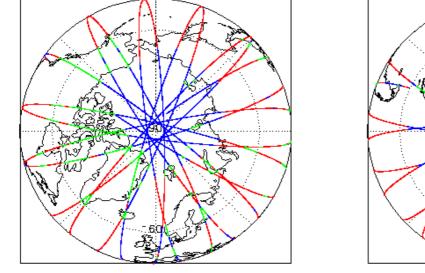
IDEAS-QA4E0

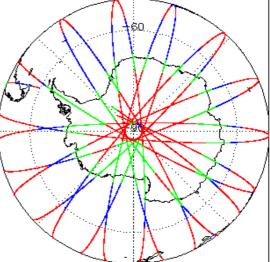
on out Duoduction.	00 Con 0000	Check	L1 & L2	P2P
Report Production:	26-Sep-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSal Ocean Frocessor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Oseu:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2

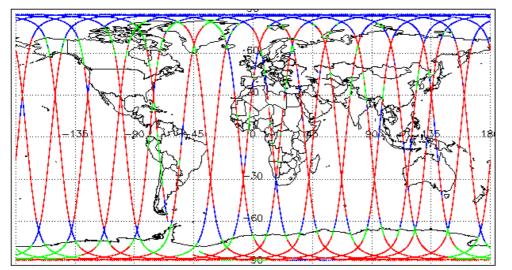
1. Overview

Μ	lission / Instru	ment News
	22-Sep-2022	None
	23-Sep-2022	None
	24-Sep-2022	Nothing planned











SARin

3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any incon	sistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-	-determined baseline and also to o	heck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record.	. The bit value of this flag indicate	s any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurement	ent record. The bit value of this fla	g indicates any problems when set.
> Attitude Correction Missing: This flag is currently set in error for IOPR prod update.	ucts due to a configuration issue.	The attitude correction is actually not missing. This will be resolved in the next SW
Number of products with errors: 1		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220923T143951_20220923T144312_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		
4.6 L1B Waveform Group Data Check		

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20220923T011615_20220923T011827_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220923T055436_20220923T062655_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220923T091718_20220923T093957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220923T111228_20220923T111928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T010344_20220923T010805_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T013128_20220923T013551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T045848_20220923T045905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T113459_20220923T113620_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T133054_20220923T133216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T145344_20220923T145832_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T212135_20220923T212224_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T212322_20220923T212725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T225942_20220923T230117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220923T230528_20220923T230621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220923T055036_20220923T055436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220923T082840_20220923T082958_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220923T153433_20220923T153654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220923T175445_20220923T175549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220923T175701_20220923T175846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220923T230622_20220923T231203_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of	products	with	errors:	
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5.2 L2 Product Header Analysis

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

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

0

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

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

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

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T121430_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPM_2_20220923T144638_20220923T144735_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T013128_20220923T013551_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_20220923T022026_20220923T022148_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_20220923T022929_20220923T023238_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T031026_20220923T031414_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T041015_20220923T041132_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T071927_20220923T072053_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T072613_20220923T072919_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_20220923T085912_20220923T090150_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_20220923T090513_20220923T090847_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_20220923T103952_20220923T104226_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_20220923T113459_20220923T113620_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_20220923T121525_20220923T122112_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_20220923T130927_20220923T131025_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T131430_20220923T131641_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_20220923T135718_20220923T135859_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T140741_20220923T140947_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_20220923T145344_20220923T145832_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_20220923T171629_20220923T172023_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_20220923T185618_20220923T185930_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_20220923T194049_20220923T194212_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T204347_20220923T204512_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_20220923T212322_20220923T212725_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_20220923T221142_20220923T221313_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220923T222135_20220923T222319_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_20220923T230528_20220923T230621_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_20220922T235708_20220923T000443_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_20220923T013552_20220923T014311_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_20220923T031415_20220923T032148_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_20220923T045108_20220923T045848_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_20220923T063041_20220923T063704_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_20220923T063704_20220923T063844_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_20220923T080832_20220923T081604_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_20220923T081604_20220923T081743_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_20220923T095014_20220923T095501_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_20220923T095501_20220923T095626_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_20220923T112744_20220923T113344_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_20220923T113344_20220923T113459_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_20220923T131025_20220923T131112_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_20220923T131112_20220923T131430_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_20220923T144832_20220923T145344_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_20220923T162844_20220923T163413_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_20220923T175701_20220923T175846_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20220923T180755_20220923T181547_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_20220923T194622_20220923T195449_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_20220923T212725_20220923T213528_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_20220923T230622_20220923T231203_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

1

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220923T143951_20220923T144312_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

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

B, DFH, SH, OHM J, 2020H22TH01411, 2020B22TH01400, CODI Nimetri Program Di Sockettari Octificatione Control Nimetri Program Di Sockettari Octificatione Control Nimetri Program Di Sockettari Octificatione Contr			
6 OFL_SHI_00M_2 BI220827103111 BI2208271031111 BI2208271031111 BI2208271031111 BI2208271031111 BI2208271111111 BI2208271111111 BI22082711111111 BI22082711111111 BI22082711111111 BI22082711111111 BI22082711111111 BI22082711111111 BI22082711111111 BI22082711111111 BI22082711111111 BI220827111111111 BI220827111111111 BI220827111111111 BI220827111111111 BI220827111111111 BI22082711111111 BI2208271111111111 BI22082711111111 BI220827111111111 BI220827111111111111111111111111111 BI2208271111111111111111111111111111111111	Product	Test Failed	Description
B OFFL SRI (DPM 2 20220221100001 20200201100411_0001 and Bascatter Gudey, DCGG ber the COCO Alterest Frage and Bascatter Gudey, Frage have been at Cudey, Bascatter Gudey, Frage have been at Bascatter Gudey, Frage have been at Bascatter Gudey, Frage have been at Cudey, Bascatter Gudey, Frage have been at Gudey Bascatter Gudey, Frage have	CS_OFFL_SIR_IOPM_2_20220923T001411_20220923T002342_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Part - SMC_CHRUC_CHRUNC (100001_CAD00000110001_CAD000001100001_CAD000001100001_CAD000001100001_CAD000001100001_CAD0000001100001_CAD0000001100001_CAD000000100001_CAD000000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220923T002618_20220923T004000_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Suff L, Suff, DPM 2, SUSSEXTENDES, CONTROL	CS_OFFL_SIR_IOPM_2_20220923T004307_20220923T004811_C001		
S. OFFL_SHI_UPPL_2.02209237101195_02001 and disclocater Quality, OCOG Attitued Trage of Dascatation Quality, Page Attitue Strage of Dascatattitue Quality, Page Attitue Strage of Dascatation Quality, Pag	CS_OFFL_SIR_IOPM_2_20220923T004835_20220923T004951_C001		
S. OFFL_SIR_LOPM_2_00200821101856_002200221012825_0020821012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_00208211012825_0020821101285_0000	CS_OFFL_SIR_IOPM_2_20220923T011615_20220923T011827_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S. OFFL_SIR_JOPM_2_0220823T012855_0220923T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T013102_0220823T023104_0453_c001	CS_OFFL_SIR_IOPM_2_20220923T011950_20220923T012702_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S. OFFL_SIFLIOPM_2_20220823T013102_0220923T023142_0001 and backscatter Oukliny, CCOG and the OCOG Allineetin Range and Backscatter Oukliny, Flags have been after Search County, Flags have been after Search County, Flags have been after County, Coco Allineetin Flange and Backscatter County, Coco Allineetin Flange and Backscatter County, Flags have been after Count	CS_OFFL_SIR_IOPM_2_20220923T012825_20220923T013040_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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S. OFFL_SIR_JOPM_2_20220923T033358_20220923T035748_C001 Backscatter Quality tor one or more records S_OFFL_SIR_JOPM_2_20220923T033358_20220923T035748_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been set tor one or more records S_OFFL_SIR_JOPM_2_20220923T040122_20220923T040643_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set tor one or more records S_OFFL_SIR_JOPM_2_20220923T040650_20220923T040643_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set tor one or more records S_OFFL_SIR_JOPM_2_20220923T040650_20220923T040643_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, COCO Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been set for one or more records S_OFFL_SIR_JOPM_2_20220923T050109_20220923T050134_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCO Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCO Altimeter Range, SSHA,	CS_OFFL_SIR_IOPM_2_20220923T023504_20220923T025708_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S_OFFL_SIR_IOPM_2_20220923T033358_20220923T035748_C001 and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality set for one or more records S_OFFL_SIR_IOPM_2_20220923T040122_20220923T040643_C001 COGG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records S_OFFL_SIR_IOPM_2_20220923T040650_20220923T041014_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records S_OFFL_SIR_IOPM_2_20220923T040650_20220923T041014_C001 CCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records S_OFFL_SIR_IOPM_2_20220923T041214_20220923T044049_C001 Ccean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records The OCean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records S_OFFL_SIR_IOPM_2_20220923T044214_20220923T044531_C001 Ccean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records S_OFFL_SIR_IOPM_2_20220923T050109_20220923T050134_C001 Ccean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records <t< td=""><td>CS_OFFL_SIR_IOPM_2_20220923T025711_20220923T025906_C001</td><td></td><td></td></t<>	CS_OFFL_SIR_IOPM_2_20220923T025711_20220923T025906_C001		
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Disp. DFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION C5_DFFL_UFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION C5_DFFL_UFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION Disp. DFFL_UFFL_UFFL_DESERVENTION C5_DFFL_UFFL_UFFL_UFFL_UFFL_UFFL_UFFL_UFFL	CS_OFFL_SIR_IOPM_2_20220923T073324_20220923T075421_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFT_SR_IDFU_2_S222222110112_2222221110122_0222221110124_C011	CS_OFFL_SIR_IOPM_2_20220923T075707_20220923T080832_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GB_0FH_SB_0CH_2_00200201008082_00200201108480_0000 Monther Regins of Backstein Coulty Coulty Febs Neine Name GB_0FH_SB_0CH_2_00200201108400_00201108400_0000 Coein Altered Regins SB4, SW1 ord Backstein Coulty (Cooin ord Backstein Coulty (Cooin Orden Altered Regins SB4, SW1 Altered Regins CB4, SW1 Altered Regi	CS_OFFL_SIR_IOPM_2_20220923T081812_20220923T082243_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB: OFFL. BIN JOPM 2. 3022092371091502, 3022092371091502, 3022092371091502, 3022092371091702, 2022092371091702, 2022092371091703, 202209237	CS_OFFL_SIR_IOPM_2_20220923T083832_20220923T084316_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFTL_SIR_IOPM_2_00200821101032_00200821101080_C001 Antest Regra and Backscatter Quality Bit or Coord Antester Regra and Backscatter Quality Bit or Coord Antester Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_002008211010176_00200821100807_C001 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality Bit or Coord Antester Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_C001 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_C001 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_00201 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_00201 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_00201 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_00201 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_00201 Chean Aftender Regra and Backscatter Quality The Quality Regra and Backscatter Quality CS_OFTL_SIR_IOPM_2_00200821100807_00201 Chean Aftender Regra and Backscatter Quality The Quality Regra	CS_OFFL_SIR_IOPM_2_20220923T084504_20220923T085458_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFR_SIR_IORM 2_00220923109107_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923109407_020220923100954_0001 Comm Alimeter Range, SSIA, SVM and Backscatter Cuality Flags have been at the come on more records. CS_OFR_SIR_IORM_2_02209231100957_022209231100957_0202209231100957_0201 Codean Alimeter Range, SSIA, SVM and Backscatter Cuality Flags have been and the COCOA Alimeter Range and Backscatter Cuality Flags have been and the COCOA Alimeter Range and Backscatter Cuality Flags have been and the COCOA Alimeter Range and Backscatter Cuality Flags have been and to root or root oroot or root oroot or root or root or root or root or roo	CS_OFFL_SIR_IOPM_2_20220923T091233_20220923T091708_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20220923T100431_0020032T100834_0001 and baskscatter Quality, COOS Mitherer Range and Baskscatter Quality, Flags have been Attracter Range and Baskscatter Quality, Flags have been attracter Range and Baskscatter Quality, Flags have been attracter Rang	CS_OFFL_SIR_IOPM_2_20220923T091718_20220923T093957_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220823T10033_0220823T100352_C001 and the COGA Alteret Plange and Backscatter Quality Flags have been after one or more records CS_OFFL_SIR_IOPM_2_20220823T100857_20220823T100252_C001 Adameter Range adata, COCG Adameter Range adata, COCG Adameter Range adata, COCG Adameter Range adata, COCG The OCGA Altereter Range and Backscatter Quality Flags have been aet for one or more records CS_OFFL_SIR_IOPM_2_20220823T104227_20220823T104420_C001 COCGA Altereter Range Quality, COCG The COCG Altereter Range and Backscatter Quality Flags have been aet for one or more records CS_OFFL_SIR_IOPM_2_20220823T104207_C001 COCGA Altereter Range Quality, COCG The COCG Altereter Range and Backscatter Quality Flags have been aet for one or more records CS_OFFL_SIR_IOPM_2_20220823T104207_C001 COCGA Altereter Range Quality, COCG The COCG Altereter Range and Backscatter Quality Flags have been aet for one or more records CS_OFFL_SIR_IOPM_2_20220823T10504_20220823T10594_C001 Cocen Altereter Range, SHA, SWH and Backscatter Quality Flags have been aet for one or more records CS_OFFL_SIR_IOPM_2_20220823T110542_2020823T110542_C001 Cocen Altereter Range, SHA, SWH and Backscatter Quality Flags have been aet for one or more records CS_OFFL_SIR_IOPM_2_20220823T110542_2020823T110542_C001 Cocen Altereter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220823T1115242_0020823T111642_0001 Cocen Altereter R	CS_OFFL_SIR_IOPM_2_20220923T094007_20220923T094831_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T108252_001 are Backscatter Quality_COCG and Backscatter Quality_Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T104227_20220923T10420_C001 OCCO Altimeter Range Quality_COCG The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T104207_20220923T104857_C001 OCCO Altimeter Range Quality_COCG The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T105204_20220923T105657_C001 OCCG Altimeter Range, SSH, SWH The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T105204_20220923T105657_C001 Ocean Altimeter Range, SSH, SWH The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T110744_20220923T110842_C001 Ocean Altimeter Range, SSH, SWH and Backscatter Quality Flags have been set for one or more records The OCCGA Altimeter Range, SSH, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T111228_2020923T111928_C001 Ocean Altimeter Range, SSH, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T111928_2020923T11928_C001 Ocean Altimeter Range, SSH, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T11928_2020923T119282_C001 Ocean Altimeter Range, SSH, SWH	CS_OFFL_SIR_IOPM_2_20220923T100133_20220923T100834_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US_DFFL_SIR_IOPM_2_20220923T104207_0000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20220923T100857_20220923T103252_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US_OPEL_SIR_IOPM_2_202208231104/05_202209231105204_202209231105657_C001 Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the open records CS_OFFL_SIR_IOPM_2_202209231105204_202209231110542_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the open records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the open records CS_OFFL_SIR_IOPM_2_202209231110242_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the open records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the open records CS_OFFL_SIR_IOPM_2_202209231110282_0001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the open records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been and the open records CS_OFFL_SIR_IOPM_2_202209231110282_0001 Cocean Altimeter Range Quality, COCG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the open records CS_OFFL_SIR_IOPM_2_202209231114028_0001 COCGA Altimeter Range Quality, COCG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the open records CS_OFFL_SIR_IOPM_2_202209231114028_0001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the open records The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the open and the open records CS_OFFL_SIR_IOPM_2_202209231	CS_OFFL_SIR_IOPM_2_20220923T104227_20220923T104420_C001		
CS_OFFL_SIR_IOPM_2_20220923T105204_20220923T105204_2020923T1105204_2020923T1105204_2020923T110542_0001 and Backscatter Quality, COCG and the OCGA Altimeter Range and Backscatter Quality, COCG CS_OFFL_SIR_IOPM_2_20220923T110744_20220923T110642_0001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG The Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and the OCGA Altimeter Range, SSHA, SWH and the OCGA Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20220923T111228_0001 Ocean Altimeter Range, Cold Altimeter Range, SSHA, SWH The Ocean Altimeter Range and Backscatter Quality Flags have been at the OCGA Altimeter Range and Backscatter Quality Flags have been at the OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCGA Altimeter Range, SSHA, SWH and Backscatter Quality, COCG CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T121430_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T12451_0001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH CS_OF	CS_OFFL_SIR_IOPM_2_20220923T104705_20220923T104857_C001		
CS_OFFL_SIR_IOPM_2_20220923T110744_20220923T110842_C001 and Backscatter Quality COGG Altimeter Range and Backscatter Quality Set for one or more records CS_OFFL_SIR_IOPM_2_20220923T111228_20220923T111928_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. Set for one or more records CS_OFFL_SIR_IOPM_2_20220923T111628_0220923T111028_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T114036_C001 Occean Altimeter Range, SSHA, SWH and Backscatter Quality. OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality. OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality. OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality. OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. Flags have been and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. C	CS_OFFL_SIR_IOPM_2_20220923T105204_20220923T105657_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T111228_20220923T111928_C001 and Backscatter Quality and the CCCG Altimeter Range and Backscatter Quality and the CCCG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20220923T113620_20220923T114036_C001 OCCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20220923T114147_20220923T115532_C001 Ocean Altimeter Range, SSHA, SWH The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T121430_C001 Ocean Altimeter Range, SSHA, SWH The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T121430_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altinc Occo Altimeter Range and Backscatter Quality	CS_OFFL_SIR_IOPM_2_20220923T110744_20220923T110842_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US_OFFL_SIR_IOPM_2_20220923T11362_00220923T114035_0001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPM_2_20220923T114147_20220923T115532_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality The Ocean Attimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T121430_C001 Ocean Attimeter Range and Backscatter Quality The Ocean Attimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20220923T123121_20220923T123121_20220923T123718_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality, Flags have been and the OCCG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCCG Attimeter Range and Backscatter Quality Flags have been at the OCCG Attimeter Range and Backscatter Quality Flags and the OCCG Attimeter Range and Backscatter Quality Flags the Ocean Attimeter Range and Back	CS_OFFL_SIR_IOPM_2_20220923T111228_20220923T111928_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T114147_20220923T115532_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the 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 and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Al	CS_OFFL_SIR_IOPM_2_20220923T113620_20220923T114036_C001		
CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T121430_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_20220923T123121_20220923T123718_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T132023_20220923T132221_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20220923T132023_20220923T132024_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags for one or more records <td>CS_OFFL_SIR_IOPM_2_20220923T114147_20220923T115532_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_IOPM_2_20220923T114147_20220923T115532_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T123121_20220923T123718_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20220923T123750_20220923T124511_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags to ne or more recordsCS_OFFL_SIR_IOPM_2_20220923T124817_20220923T124511_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags to ne or more recordsCS_OFFL_SIR_IOPM_2_20220923T124817_20220923T130215_C001Ocean Altimeter Range Quality, OCOG Backscatter QualityThe OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20220923T132023_20220923T132221_C001OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOGThe OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more recordsCS_OFFL_SIR_IOPM_2_20220923T132023_20220923T132054_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOGThe OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20220923T120346_20220923T121430_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T123750_20220923T124511_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_20220923T124817_20220923T130215_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 CS_OFFL_SIR_IOPM_2_20220923T132023_20220923T13221_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_20220923T132023_20220923T132023_20220923T132054_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags for one or more records	CS_OFFL_SIR_IOPM_2_20220923T123121_20220923T123718_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T124817_20220923T130215_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_20220923T132023_20220923T132221_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_20220923T132023_20220923T132024_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20220923T123750_20220923T124511_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T132023_20220923T132221_C001 Backscatter Quality for one or more records CS_OFFL_SIR_IOPM_2_20220923T132829_20220923T133054_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20220923T124817_20220923T130215_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T132829_20220923T133054_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20220923T132023_20220923T132221_C001		
	CS_OFFL_SIR_IOPM_2_20220923T132829_20220923T133054_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220923T133216_20220923T133704_C001 Ocean Altimeter Range, SSHA, SWH 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_20220923T133216_20220923T133704_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20220923T133942_20220923T135452_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_20220923T135859_20220923T140740_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_20220923T141112_20220923T143226_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_20220923T150055_20220923T153433_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_20220923T154106_20220923T154535_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_20220923T155047_20220923T161437_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_20220923T161629_20220923T161630_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_20220923T162631_20220923T162806_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_20220923T164413_20220923T164529_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_20220923T164655_20220923T171238_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_20220923T172023_20220923T172614_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_20220923T172943_20220923T174222_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_20220923T174910_20220923T175445_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_20220923T180517_20220923T180703_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_20220923T181843_20220923T185201_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_20220923T185931_20220923T190446_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_20220923T191127_20220923T191400_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_20220923T194212_20220923T194622_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_20220923T195449_20220923T200735_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_20220923T201021_20220923T203136_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_20220923T203812_20220923T203933_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_20220923T203940_20220923T204347_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_20220923T204909_20220923T205853_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_20220923T210041_20220923T210756_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_20220923T210838_20220923T211315_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_20220923T212230_20220923T212315_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_20220923T213528_20220923T221002_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 cut for one or more recorde
CS_OFFL_SIR_IOPM_2_20220923T221313_20220923T221832_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_20220923T221852_20220923T222134_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_20220923T222933_20220923T225942_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_20220923T230117_20220923T230527_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_20220923T231458_20220923T232010_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_20220923T232037_20220923T233254_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_20220923T233459_20220923T234939_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_20220923T235230_20220923T235730_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_20220923T235810_20220923T235933_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_20220923T033005_20220923T033358_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_20220923T095755_20220923T095829_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_20220923T122336_20220923T122406_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_20220923T002343_20220923T002353_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_20220923T050818_20220923T050910_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_20220923T121431_20220923T121524_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_20220923T123718_20220923T123749_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_20220923T230622_20220923T231203_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_20220923T233255_20220923T233459_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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

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Product	Test Failed	Description
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20220923T015222_20220923T015526_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_20220923T022929_20220923T023238_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_20220923T030824_20220923T030946_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_20220923T031026_20220923T031414_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_20220923T032409_20220923T032536_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_20220923T033005_20220923T033358_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_20220923T044532_20220923T045107_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_20220923T050018_20220923T050108_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_20220923T062656_20220923T062831_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_20220923T062907_20220923T063041_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_20220923T064238_20220923T064400_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_20220923T064911_20220923T065114_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_20220923T071927_20220923T072053_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_20220923T083500_20220923T083831_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_20220923T085912_20220923T090150_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_20220923T090513_20220923T090847_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_20220923T095755_20220923T095829_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_20220923T100047_20220923T100133_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_20220923T103952_20220923T104226_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_20220923T120240_20220923T120346_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_20220923T122829_20220923T123007_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_20220923T130927_20220923T131025_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_20220923T131754_20220923T132023_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_20220923T132222_20220923T132343_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_20220923T133054_20220923T133216_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_20220923T133705_20220923T133941_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

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CS_OFFL_SIR_IOPN_2_20220923T22195_20220923T223052 md Backscatter Quality FLRM, COCG Ind USBA Admitter Parage and Backscatter Quality Page Tave been set for one or more records CS_OFFL_SIR_IOPN_2_20220923T230528_20220923T230521_CO01 Ceen Altimeter Range, SSHA, SWH and Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPN_2_20220923T230528_20220923T230521_CO01 Ceen Altimeter Range, SSHA, SWH and Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPN_2_20220923T23103_20220923T231200_C001 CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPR_2_20220922T235708_20220923T000443_C001 Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T002405_20220923T000443_C001 Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T002405_20220923T000413_C001 CCCG Altimeter Range Quality PLRM, COCG Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T010551_20220923T010051_C001 CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T013552_20220923T014311_C001 CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags Tave been set for one or more records The COCG Range and Backscatter Quality Flags Tave been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T0135	CS_OFFL_SIR_IOPN_2_20220923T221142_20220923T221313_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPN_2_20220923T230528_20220923T230621_C001 and Backscatter Quality PLM, QCG Interfex Range and Backscatter Quality PLM, QCG CS_OFFL_SIR_JOPN_2_20220923T231202_C001 QCG Altimeter Range Quality PLM, QCG The OCGG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T231202_C001 QCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T231202_C001 QCGG Altimeter Range Quality PLM, QCG The OCGG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T002405_20220923T000443_C001 QCGG Altimeter Range Quality PLM, QCG The OCGG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T002405_20220923T00051_C001 QCGG Altimeter Range Quality PLM, QCGG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T013552_20220923T01051_C001 QCGG Altimeter Range, Quality PLM, QCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T0136545_20220923T014311_C001 QCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T0136545_20220923T014311_C001 QCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_JOPR_2_20220923T0136545_20220923T014311_C001 QCGE Altimeter Ra	CS_OFFL_SIR_IOPN_2_20220923T222135_20220923T222319_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220923T03123123120_20001 OCOG Backscatter Quality nore records CS_OFFL_SIR_IOPR_2_20220922T235708_20220923T000443_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T002405_20220923T002618_C001 OCOG Altimeter Range Quality PLRM The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T005820_20220923T010051_C001 OCOG Altimeter Range Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T015642_20220923T010051_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T014311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T014311_C001 Ceean Altimeter Range, SSHA, SWH 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_202	CS_OFFL_SIR_IOPN_2_20220923T230528_20220923T230621_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220922T235708_20220923T000443_C001 and Backscatter Quality PLRM, COCG Interformation Random Response of the COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T002405_20220923T002618_C001 OCOG Altimeter Range Quality PLRM, COCG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T005820_20220923T010051_C001 OCOG Altimeter Range Quality PLRM, COCG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T015552_20220923T014311_C001 OCOG Altimeter Range, SSHA, SWH 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_20220923T015645_20220923T014311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T014311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T01415_20220923T031415_20220923T032148_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality F	CS_OFFL_SIR_IOPN_2_20220923T231203_20220923T231220_C001		
CS_OFFL_SIR_IOPR_2_20220923T005820_20220923T010051_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPR_2_20220923T0105820_20220923T010051_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T013552_20220923T013552_20220923T014311_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, 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 CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T020045_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T0131415_20220923T020045_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T031415_20220923T032148_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T041132_20220923T0411356_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL	CS_OFFL_SIR_IOPR_2_20220922T235708_20220923T000443_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220923T005820_20220923T01005T_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPR_2_20220923T013552_20220923T014311_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T020045_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T020045_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T031415_20220923T032148_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T041132_20220923T041356_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T041132_20220923T045108_20220923T045848_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001 Ocean A	CS_OFFL_SIR_IOPR_2_20220923T002405_20220923T002618_C001		
CS_OFFL_SIR_IOPR_2_20220923T013552_20220923T014311_C001and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRMThe OCGan Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range and Backscatter Quality Flags and the OCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGG Altimeter Range and Backscatter Quality Flags 	CS_OFFL_SIR_IOPR_2_20220923T005820_20220923T010051_C001		
CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T020045_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM In the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T041132_20220923T041356_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPR_2_20220923T013552_20220923T014311_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220923T031415_20220923T032148_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ind Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been 	CS_OFFL_SIR_IOPR_2_20220923T015645_20220923T020045_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220923T041132_20220923T041356_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ind Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG 	CS_OFFL_SIR_IOPR_2_20220923T031415_20220923T032148_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been or to report on a report or proor or more or more or proor or more or mo	CS_OFFL_SIR_IOPR_2_20220923T041132_20220923T041356_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
p ciw	CS_OFFL_SIR_IOPR_2_20220923T045108_20220923T045848_C001	and Backscatter Quality PLRM, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPR_2_20220923T050818_20220923T050910_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_20220923T053715_20220923T053948_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_20220923T055036_20220923T055436_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_20220923T063041_20220923T063704_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_20220923T064208_20220923T064238_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_20220923T064401_20220923T064427_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_20220923T071507_20220923T071927_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_20220923T072920_20220923T073324_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_20220923T080832_20220923T081604_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_20220923T085458_20220923T085911_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_20220923T090847_20220923T091233_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_20220923T103252_20220923T103952_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_20220923T105044_20220923T105204_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_20220923T105657_20220923T105751_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_20220923T112744_20220923T113344_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_20220923T115532_20220923T115718_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_20220923T115726_20220923T115907_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_20220923T115909_20220923T115940_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_20220923T130747_20220923T130927_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_20220923T131025_20220923T131112_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_20220923T131112_20220923T131430_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_20220923T140948_20220923T141111_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_20220923T143226_20220923T143312_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_20220923T144735_20220923T144823_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_20220923T144832_20220923T145344_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_20220923T153433_20220923T153654_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_20220923T154757_20220923T155047_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_20220923T162844_20220923T163413_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_20220923T171238_20220923T171629_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_20220923T175701_20220923T175846_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_20220923T180755_20220923T181547_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_20220923T181648_20220923T181729_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_20220923T185201_20220923T185618_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_20220923T193504_20220923T193708_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_20220923T194622_20220923T195449_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_20220923T203136_20220923T203358_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_20220923T204512_20220923T204909_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_20220923T212725_20220923T213528_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_20220923T222320_20220923T222932_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_20220923T230622_20220923T231203_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_20220923T231252_20220923T231356_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records		
L2 Quality Flags (1 Hz & 1 Hz PLRM)				
Currently, there are several common flags raised in the Level 2 products, which are summarised below.				
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for	r products over sea ice, which is to be expecte	d. The number of products with this error flag set is given below.		
Number of products with errors: 201				

5.8 L2 Ocean Retracking Quality Check
L2 Retracking Flags (20 Hz)
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
> Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.
Number of products with errors: 69
L2 Retracking Flags (20 Hz 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. The number of products with this error flag set is given below.
Number of products with errors: 147
6. IOP L2 Pole-to-Pole Data Quality Check
6.1 P2P Product Format Check
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).
Number of products with errors: 0
6.2 P2P Product Header Analysis
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0
6.3 P2P Auxiliary Data File Usage Check

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

 Number of products with errors:
 0

6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220220922T235844_20220923T004821_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_220220923T004821_20220923T013758_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_220220923T013758_20220923T022736_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_20220923T022736_20220923T031713_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_20220923T031713_20220923T040651_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_20220923T040651_20220923T045628_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_220220923T045628_20220923T054605_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_220220923T054605_20220923T063543_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_220220923T063543_20220923T072520_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_220220923T072520_20220923T081457_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_220220923T081457_20220923T090435_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_220220923T090435_20220923T095412_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_220220923T095412_20220923T104349_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_20220923T104349_20220923T113326_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_20220923T113326_20220923T122304_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_220220923T122304_20220923T131241_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_220220923T131241_20220923T140219_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_220220923T140219_20220923T145156_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_220220923T145156_20220923T154133_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_20220923T154133_20220923T163111_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_20220923T163111_20220923T172048_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20220923T172048_20220923T181025_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_20220923T181025_20220923T190003_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_20220923T190003_20220923T194940_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20220923T194940_20220923T203917_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_20220923T203917_20220923T212855_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_220220923T212855_20220923T221832_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)

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CS_OFFL_SIR_IOP_220220923T221832_2022092	23T230809_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_20220923T230809_2022092	23T235747_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)		
6.5 P2P Measurement Confidence D	ata Check				
CryoSat P2P data includes a measurement confidenc	e flag for each 20-Hz measu	rement record. The bit value of this flag ind	icates any problems when set.		
Number of products with errors:	1	-			
Product		Test Failed	Description		
CS_OFFL_SIR_IOP_2_20220923T140219_2022092	23T145156_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
6.6 P2P Measurement Quality Flag C	Check				
P2P Quality Flags (20 Hz)					
CryoSat P2P data includes Quality Flags for each 20 I	Hz, 20 Hz PLRM and 1 Hz m	easurement record, copied from the corres	sponding L2 products.		
Since the P2P Quality Flags are copied directly fro below.	om the L2 Quality Flags, ple	ease see Section 5.6 for the full list of pr	roducts affected. The number of P2P products affected is given		
Number of products with errors:	30				
P2P Quality Flags (20 Hz PLRM)					
Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. The number of P2P products affected is given below.					
Number of products with errors:	28				
P2P Quality Flags (1 Hz & 1 Hz PLRM)					
Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below.					
nber of products with errors: 29					
6.8 P2P Ocean Retracking Quality Check					
P2P Retracking Flags (20 Hz)					
Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.					
> Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.					
Number of products with errors:	28				
P2P Retracking Flags PLRM					
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM measurement record. The bit value of this flag indicates any problems when set.					
> Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.					
Number of products with errors:	29				

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	174	174	2	172	0
SIR_IOPR1B	120	115	3	112	0
SIR_IOPN1B	115	120	0	120	0
SIR_IOPM_2	174	174	115	59	0
SIR_IOPR_2	120	115	42	73	0
SIR_IOPN_2	115	120	46	74	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 Total number of occurrences of each warning
MVIOEPNCDF MVIONCDF RBSZOPOEPFDNCDF MVIOEPFDNCDF RBSZOPOEPFDPLRMNCDRBSZOPOEPNCDF BCSHNCDF Product Type 40 SIR_IOPM1B SIR IOPM 2 SIR_IOPN1B 25 32 0 42 32 20 SIR IOPN 2 SIR IOPR1B SIR_IOPR_2 RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSARNCERPEPOPFDPLRMSINNCD RPEPOPFDSARNCDF RPEPOPFDSINNCDF RPEPOPLRMNCDF Product Type SIR_IOPM1B 0 0 0 SIR_IOPM_2 SIR_IOPN1B 0 SIR_IOPN_2 n SIR_IOPR1B SIR_IOPR_2 RPEPOPSARNCDF RPEPOPSINNCDF RSSBCONCDF RSSHAOFDNCDF RSSHAOFDPLRMNCDF RSSHAONCDF RSWHOEPFDNCDF Product Type SIR_IOPM1B SIR_IOPM_2 С SIR_IOPN1B 21 0 3 SIR_IOPN_2 SIR_IOPR1B SIR_IOPR_2

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_IOPM1B	0	0	1	0	0	0	
SIR_IOPM_2	0	3	1	0	0	0	
SIR_IOPN1B	0	0	0	0	46	2	
SIR_IOPN_2	31	9	0	2	0	0	
SIR_IOPR1B	0	0	0	0	120	8	
SIR_IOPR_2	47	3	0	4	0	0	
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	12	29	29	6	29	19	29
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	1	18	29	20	23	29	18
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	•
SIR_IOP_2_	22	29	20	13	29		
Product Type	-	-	-	-	-	-	•
SIR_IOP_2_							

Test Description Key:				
Abbreviation	Test name	Details		
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter		
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees		
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only		
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean		
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean		
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean		
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean		
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean		
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees		
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch		
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:

1

L1B and L2 Product name n/a

P2P Product name CS_OFFL_SIR_IOP_2_20220923T230809_20220923T235747_C002