

QA4EO Daily Report for IOP data:

<u>23/04/2023</u>

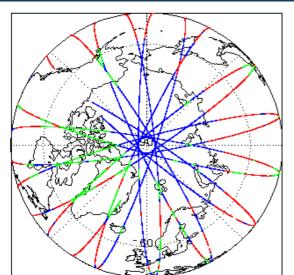
IDEAS-QA4E0

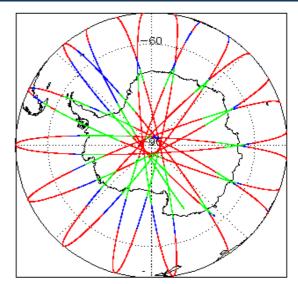
Panart Braduation	26 Apr 2022	Check	L1 & L2	P2P
Report Production:	26-Apr-2023	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
We would	love to hear from you!	Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
	your feedback about these daily	Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
quality reports: What do you like/ dislike? What quality		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
information do you need? Send your feedback to		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
cs2_qc_t	team@telespazio.com	QCC Error/ Warning Check	See Section 7.2	See Section 7.2

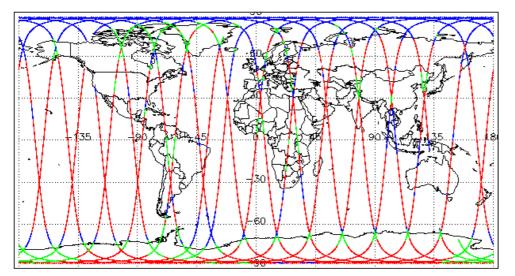
1. Overview

Mission / Instrument News		
22-Apr-2023		
23-Apr-2023	None	
24-Apr-2023	Nothing planned	

2. Global Coverage











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 inconsistencies and/or errors raised by the ground-segment processing chain.					
Number of products with errors: 0	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-d	etermined baseline and also to check the	validity of Auxiliary Data Files is correct.			
Number of products with errors: 0					
4.4 L1B Auxiliary Correction Error Check					
CryoSat L1B data includes a correction error flag for each measurement record.	The bit value of this flag indicates any pro	blems when set.			
Number of products with errors: 0					
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag for each measurement	nt record. The bit value of this flag indicate	es any problems when set.			
> Attitude Correction Missing: This flag is currently set in error for IOPR produ- update.	cts due to a configuration issue. The attitu	de correction is actually not missing. This will be resolved in the next SW			
Number of products with errors: 1					
Product	Test Failed	Description			
CS_OFFL_SIR_IOPM1B_20230423T195748_20230423T195843_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records			
4.6.1.1P. Wayofarm Crayn Data Chaok					

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_20230423T014636_20230423T015903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230423T182756_20230423T185029_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T021626_20230423T022225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T031602_20230423T031822_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T040902_20230423T041055_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T071810_20230423T072158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T075652_20230423T075841_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T080558_20230423T080645_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T080827_20230423T080923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T140430_20230423T140713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230423T144239_20230423T144702_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T010819_20230423T011021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T013005_20230423T013501_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T062540_20230423T063622_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T094927_20230423T100002_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T122419_20230423T123113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T133720_20230423T133946_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T143940_20230423T144146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230423T144224_20230423T144239_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

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. 0

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).

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

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

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

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

> 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.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230423T044642_20230423T044703_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_20230423T195748_20230423T195843_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_20230422T235745_20230423T000154_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_20230423T004124_20230423T004359_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_20230423T013637_20230423T013751_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_20230423T013939_20230423T014213_C001	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 Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non- Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20230423T021626_20230423T022225_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_20230423T031602_20230423T031822_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_20230423T035843_20230423T040032_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_20230423T045538_20230423T050018_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_20230423T053822_20230423T053959_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_20230423T071810_20230423T072158_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_20230423T075652_20230423T075841_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_20230423T080827_20230423T080923_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_20230423T085748_20230423T090104_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_20230423T090616_20230423T090737_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_20230423T094842_20230423T094927_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_20230423T104525_20230423T104633_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_20230423T112425_20230423T112641_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_20230423T112739_20230423T112858_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_20230423T130645_20230423T130810_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_20230423T140058_20230423T140336_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_20230423T144239_20230423T144702_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_20230423T154014_20230423T154337_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_20230423T162135_20230423T162525_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_20230423T172120_20230423T172237_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_20230423T190024_20230423T190146_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_20230423T193818_20230423T193940_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20230423T195903_20230423T195913_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_20230423T203028_20230423T203154_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_20230423T203718_20230423T204029_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_20230423T221008_20230423T221122_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_20230423T221617_20230423T221941_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_20230423T235055_20230423T235330_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_20230423T013005_20230423T013501_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_20230423T013501_20230423T013637_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_20230423T030952_20230423T031601_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_20230423T045125_20230423T045538_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_20230423T062540_20230423T063622_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_20230423T080923_20230423T081711_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_20230423T094001_20230423T094102_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_20230423T094927_20230423T100002_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_20230423T112858_20230423T113626_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_20230423T130810_20230423T131331_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_20230423T144703_20230423T145137_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_20230423T145137_20230423T145409_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_20230423T162525_20230423T163040_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_20230423T180218_20230423T181114_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_20230423T194145_20230423T194809_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_20230423T194809_20230423T195139_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_20230423T195257_20230423T195504_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_20230423T195844_20230423T195902_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_20230423T195913_20230423T200021_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_20230423T211700_20230423T212708_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_20230423T212708_20230423T212838_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_20230423T225933_20230423T231144_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.

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230423T195748_20230423T195843_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.

2, OFT_SHI_UOW_2_3202043T00231_002043T00312_002043T00313_00201 Deex Alteres Rays of Bascalet Coulty Fags were Bascalet Coulty Fags wer	Due due d	To a Called	Beenvietien
Sto GFL SH: 00H 2 addots2100027 20020421102105 0011 and Revert Range SH 2000 Ammeter Range and Reverter Range SH 2000 Ammeter Range and Reverter Range SH 2000 Ammeter Range and Reverter Range SH 2000 Ammeter Range SH 2000 Am	Product	Test Failed	Description
S., OFR. SRI, OFM 2. 2020427102200, 2020427103458, 2001 and BBA20000 Call Baba20000 Call IV and the one more roots: S., OFR. SRI, OFM 2. 20204271011021 20204271011462 CODE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge and Exclusion Call IV Flags have here rest in a construction of the Code Allineits Rauge Calls, 2000 S. OFR. SRI, OFM 2. 20204271011021 202044271011462 CODE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 S. OFR. SRI, OFM 2. 20204271011621 202044271011462 CODE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 S. OFR. SRI, OFM 2. 20204271011625 20204271011625 2020 CODE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 S. OFR. SRI, OFM 2. 20204271012625 20204271012625 0.0001 CODE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 S. OFR. SRI, OFM 2. 2020427102020 2020427102020 0.0011 CODE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 The OCDE Allineits Rauge Calls, 2000 S. OFR. SRI, OFM 2. 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 2020427102020 20204	CS_OFFL_SIR_IOPM_2_20230423T000237_20230423T002136_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backbacker Cushy for the origon statute Statute Cashy for the origon statute Statute Cashy Cashy for the origon statute for the origon statute Statute Cashy Cashy for the origon statute for the origon statute for the origon statute Statute Cashy Cashy for the origon statute for the oris the origon statute for the origo	CS_OFFL_SIR_IOPM_2_20230423T002201_20230423T003458_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S0 OFFL SIR LOPM 2 2020427101121 20204271011320 2001 and the 2002 Allinear Range and Backstater Quality Flags have been as the second. S0 OFFL SIR LOPM 2 2020427101202 20204271013800 CO01 CO02 Allinear Range Collaborator Quality Flags have been as the second. S0 OFFL SIR LOPM 2 2020427101202 20204271013800 CO01 CO02 Allinear Range Collaborator Quality Flags have been as the second. S0 OFFL SIR LOPM 2 2020427102259 20204271013800 CO01 CO02 Allinear Range Collaborator Quality Flags have been as the second. S0 OFFL SIR LOPM 2 2020427102259 2020427102350 202042710350 20204271	CS_OFFL_SIR_IOPM_2_20230423T004734_20230423T005058_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Background Bedissection Casility Nor one runne records Biological American Reago, BSHA, SWH, and Revise Reago, BSHA, SWH, and Revise Revise Reago, BSHA, SWH, and Revise Reago, BSHA, SW	CS_OFFL_SIR_IOPM_2_20230423T011021_20230423T011942_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Signed FL_SIR_JOPM_2_2020423T02809_2020423T02809_2001 and Backscatter Quality, COOD Amender Progra and Backscatter Quality Flags have been and both come or more records Signed FL_SIR_JOPM_2_2020423T02809_2020423T02809_2001 COOD Altimeter Parage and Backscatter Quality Flags have been and both come or more records Signed FL_SIR_JOPM_2_2020423T02809_2020423T02809_2020423T02809_2000 COOD Altimeter Parage and Backscatter Quality Flags have been and both come or more records Signed FL_SIR_JOPM_2_2020423T02809_2001 COOD Altimeter Parage SIM_SWH and Backscatter Cuality Flags have been and the or own more records. Signed FL_SIR_JOPM_2_2020423T048002_001 COCD Altimeter Parage SIM_SWH and Backscatter Cuality Flags have been and the or own more records. The OCODA Altimeter Parage SIM_SWH and Backscatter Cuality Flags have been and the o	CS_OFFL_SIR_IOPM_2_20230423T013752_20230423T013939_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Bit DPL, SH, JOPM, 2. 2020423102209, 2020423102200_000 Badkscaller Guilly for one or more records SS_OFFL_SIR_JOPM, 2. 2020423102209, 2020423102200_000 DOI: 10000 The OCOO Allineter Range and Backscaller Guilly Flags have been se for one or more records SS_OFFL_SIR_JOPM, 2. 2020423102209, 20204231020326, 0001 Attemeter Range and Backscaller Guilly. The OCOO Allineter Range and Backscaller Guilly. Flags have been se for one or more records SS_OFFL_SIR_JOPM, 2. 20204231030200_00204231030326, 0001 COOG Allineter Range and Backscaller Guilly. The OCOG Allineter Range and Backscaller Guilly. Flags have been se for one or more records SS_OFFL_SIR_JOPM, 2. 20204231030200_00204231030326, 0001 COOG Allineter Range All Backscaller Guilly. COOG Allineter Range and Backscaller Guilly. Flags have been se for one or more records SS_OFFL_SIR_JOPM, 2. 20204231030300_00204231030300_0001 COGG Allineter Range All Backscaller Guilly. The OCOG Allineter Range and Backscaller Guilly. Flags have been se for one or more records SS_OFFL_SIR_JOPM, 2. 20204231030300_0001 COGA Allineter Range All Backscaller Guilly. The OCOGA Allineter Range and Backscaller Guilly. Flags have been se for one or more records SS_OFFL_SIR_JOPM, 2. 20204231030300_0001 COGA Allineter Range All Backscaller Guilly. Flags have been se for one or noe records SS_OFFL_SIR_JOPM, 2. 20204231051000_20204231050900_001 Allerer Range All Backscaller Guilly. Flags have been se for one or noe records SS_OFFL_SIR_JOPM	CS_OFFL_SIR_IOPM_2_20230423T014636_20230423T015903_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backcatter Quality for one or more records SS_OFFL_SIR_IOPM_2_20220423T02309_0230423T024648_0001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T02309_0230423T024648_0001 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T02309_02302423T02403 OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T02309_02020423T023109_0001 OCOG Altimeter Range Author Coulity Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T02304_27T02500_0001 OCGG Altimeter Range Author Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T03364_20030423T03500_0001 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T041070_0001 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T041070_0001 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T041070_001 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20220423T05100_2020423T05108_0_001 Ocean Altimeter Range and Backscatter Quality Flags have been set for	CS_OFFL_SIR_IOPM_2_20230423T022225_20230423T022519_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Sign OFFL_SIR_IOPM_2_20220423T003030_20220423T003025_0001 and Backscatter Quality, COOG Bickscatter Quality, COOG Altimeter Range and Bickscatter Quality, Flags have been se for one river records. Sig_OFFL_SIR_IOPM_2_20220423T043032_0220423T043032_0220423T043032_0220423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043032_0020423T043103_0000 Altimeter Range SIMA, SWH and Bickscatter Quality, COOG Altimeter Range and Bickscatter Quality, Flags have been se for one river records. Sig_OFFL_SIR_IOPM_2_20220423T041137_20220423T041037_00001 OCGA Altimeter Range SIMA, SWH and Bickscatter Quality, COOG Altimeter Range and Bickscatter Quality, Flags have been se for one river records. Sig_OFFL_SIR_IOPM_2_20220423T054048_0020422T054702_COOI Bickscatter Quality, COOG Altimeter Range and Bickscatter Quality, Flags have been se for one river records. Sig_OFFL_SIR_IOPM_2_20220423T054708_0020423T054708_0020	CS_OFFL_SIR_IOPM_2_20230423T022529_20230423T023000_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
PL_DFFL_SIR_IOPM_2_00230423103364_00230423103080_0001 Backscatter Quality for one or more records Sis_OFFL_SIR_IOPM_2_00230423103254_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_00230423103564_002304231045035 The OCGR Altimeter Range and Backscatter Quality Flags have been at the one or more records Sis_OFFL_SIR_IOPM_2_0023042310430354_002304231045001 COCGR Altimeter Range Quality, OCGG The OCGR Altimeter Range and Backscatter Quality Flags have been at the one or more records Sis_OFFL_SIR_IOPM_2_00230423104137_002304231045701_CO01 COCGR Altimeter Range Quality, OCGG The OCGR Altimeter Range and Backscatter Quality Flags have been at the one or more records Sis_OFFL_SIR_IOPM_2_002304231061000_022304231045701_CO01 COCGR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the one or more records The OCGR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the one or more records Sis_OFFL_SIR_IOPM_2_002304231061000_002304231065702_C001 COCGR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the one or more records Sis_OFFL_SIR_IOPM_2_002304231056034_00230423105609_C001 COCGR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the one or more records Sis_OFFL_SIR_IOPM_2_00230423106109_C001 COCGR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the one or more records	CS_OFFL_SIR_IOPM_2_20230423T023209_20230423T024648_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bit CPFL_SIR_IOPM_2_20230423103430_20230423103305_20001 Backscatter Quality for one or more records SS_OFFL_SIR_IOPM_2_202304231033354_20230423103305_200230423103305_2002304231040932_C001 DCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231040932_202304231040932_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231041137_202304231040902_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231051000_202304231053058_0001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231051000_202304231053058_0001 Ocean Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231051000_202304231053058_0001 Ocean Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231051042_023042310540702_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231051042_02304231056091_2.0001 COCG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_202304231057054_2023042310771555_C0011 Ocean Altimeter Range and Backscat	CS_OFFL_SIR_IOPM_2_20230423T030320_20230423T030325_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SS_OFFL_SIR_IOPM_2_20230423T03384_20230423T033891_C001 and Backscatter Quality. COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20230423T040032_20230423T040902_C001 COCG Altimeter Range, SSHA, SWH and Backscatter Quality. COCG Backscatter Quality. COCG Altimeter Range, SSHA, SWH and Backscatter Quality. COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality. COCG Altimeter Range, and Backscatter Quality. COCG Altimeter Range, SSHA, SWH and Backscatter Quality. Flags and Backscatter Quality. COCG Altimeter Range, and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. COCG Backscatter Quality. COCG Altimeter Range, SSHA, SWH and Backscatter Quality. Flags and Backscatter Quality. COCG Altimeter Range and Backscatter Quality. Flags have been set for one more necords SS_OFFL_SIR_IOPM_2_20230423T051000_20230423T054050 Cocan Altimeter Range Quality. COCG Backscatter Quality. COCG Backscatter Quality. COCG Backscatter Quality. COCG Altimeter Range and Backscatter Quality. Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_20230423T05402423T05402423T05402423T054026_C001 Cocan Altimeter Range Quality. COCG Backscatter Quality. Flags have been se for one or more records The OCGA Altimeter Ra	CS_OFFL_SIR_IOPM_2_20230423T032520_20230423T033109_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Source_Sin_JOPML_2202304231040032_200304231040032_20001 Backscatter Quality for one or more records Sis_OFFL_SIR_JOPM_2_202304231041137_202304231043701_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Attimeter Range and Backscatter Quality, Flags have beer and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have beer se to ene or more records Sis_OFFL_SIR_JOPM_2_202304231054246_202304231054702_C001 Cean Altimeter Range Quality, OCCG Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, Flags have been se to ene or more records The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been se to ene or more records Sis_OFFL_SIR_JOPM_2_202304231054246_202304231061609_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, Flags have been se to ene or more records The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been se to ene or more records Sis_OFFL_SIR_JOPM_2_202304231061746_2023042310612001 Cean Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality, Flags have been se Eackscatter Quality, OCCG Altimeter Range and Backscatter Quality, Flags have been se to ene or more records Sis_OFFL_SIR_JOPM_2_202304231061746_20230423107254_C001 Cean Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality, Flags have been se to ene o	CS_OFFL_SIR_IOPM_2_20230423T033354_20230423T035801_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S2_OFFL_SIR_IOPM_2_20230423T041137_20230423T043701_C001 and Backscatter Quality and the COCG Altimeter Range and Backscatter Quality Flags have beer S2_OFFL_SIR_IOPM_2_20230423T051000_20230423T053636_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality, OCGG The Ocean Altimeter Range and Backscatter Quality, Flags have beer S3_OFFL_SIR_IOPM_2_20230423T054246_20230423T054762_C001 OCGO Altimeter Range Quality, OCGG The OCCGG Altimeter Range and Backscatter Quality Flags have beer S3_OFFL_SIR_IOPM_2_20230423T054246_20230423T054762_C001 OCGO Altimeter Range Quality, OCGG The OCCGG Altimeter Range and Backscatter Quality Flags have beer S3_OFFL_SIR_IOPM_2_20230423T055034_20230423T061609_C001 OCGG Altimeter Range SSHA, SWH and Backscatter Quality Flags have beer and backscatter Quality The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and backscatter Quality S3_OFFL_SIR_IOPM_2_20230423T061746_20230423T062012_C001 OCCGG Altimeter Range Quality, OCCG The OCCGA Altimeter Range and Backscatter Quality Flags have been se for one or more records S3_OFFL_SIR_IOPM_2_20230423T064323_20230423T071555_C001 OCCGA Altimeter Range Quality, OCCG The OCCGA Altimeter Range and Backscatter Quality Flags have been se for one or more records S3_OFFL_SIR_IOPM_2_20230423T072158_20230423T07255_C001 Ocean Altimeter Range Quality, OCCG The OCCGA Altimeter Range and Backscatter Quality Flags have been se for one or more records S3_OFFL_SIR_IOPM_2_20230423T072508_20230423T07255	CS_OFFL_SIR_IOPM_2_20230423T040032_20230423T040902_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
S2_OFFL_SIR_IOPM_2_20230423T051000_20230423T053636_C001 and Backscatter Quality and Backscatter Quality and the COCG Altimeter Range and Backscatter Quality S2_OFFL_SIR_IOPM_2_20230423T054246_20230423T054702_C001 CCCG Altimeter Range Quality, CCCG The OCCG Altimeter Range and Backscatter Quality Flags have been se S2_OFFL_SIR_IOPM_2_20230423T055034_20230423T061609_C001 Ccean Altimeter Range, SHA, SWH and Backscatter Quality, OCCG The OCCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been se S2_OFFL_SIR_IOPM_2_20230423T061746_20230423T062012_C001 CCCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been se S2_OFFL_SIR_IOPM_2_20230423T061746_20230423T062012_C001 CCCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been se S2_OFFL_SIR_IOPM_2_20230423T064323_20230423T071555_C001 Cocean Altimeter Range, SSHA, SWH The OCCG Altimeter Range and Backscatter Quality Flags have been se S2_OFFL_SIR_IOPM_2_20230423T072158_20230423T072743_C001 Cocean Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been se S2_OFFL_SIR_IOPM_2_20230423T072158_20230423T072743_C001 COCG Altimeter Range Quality, OCCG The OCCG Altimeter Range and Backscatter Quality Flags have been se S2_OFFL_SIR_IOPM_2_20230423T072908_20230423T073524_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se The OCCG Altimete	CS_OFFL_SIR_IOPM_2_20230423T041137_20230423T043701_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S_OFFL_SIR_IOPM_2_20230423105426_202304231061609_0001 Backscatter Quality for one or more records SS_OFFL_SIR_IOPM_2_202304231055034_202304231061609_0001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have beer set for one or more records SS_OFFL_SIR_IOPM_2_202304231061746_202304231062012_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_202304231061746_202304231062012_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_202304231064323_202304231071555_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_202304231072158_202304231072743_C001 OCCG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_202304231072208_202304231072524_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_202304231080645_202304231080733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter	CS_OFFL_SIR_IOPM_2_20230423T051000_20230423T053636_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS_OFFL_SIR_IOPM_2_20230423T055034_20230423T061609_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been SS_OFFL_SIR_IOPM_2_20230423T061746_20230423T062012_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_20230423T064323_20230423T071555_C001 Ocean Altimeter Range, SSHA, SWH The OCOG Altimeter Range, SSHA, SWH SS_OFFL_SIR_IOPM_2_20230423T072158_20230423T07255_C001 Ocean Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_20230423T072158_20230423T072743_C001 Ocean Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_20230423T07208_20230423T073524_C001 OCOG Altimeter Range, SSHA, SWH The OCOG Altimeter Range, SSHA, SWH SS_OFFL_SIR_IOPM_2_20230423T072908_20230423T073524_C001 Ocean Altimeter Range, SSHA, SWH The OCOG Altimeter Range, SSHA, SWH SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001 Ocean Altimeter Range, SSHA, SWH The OCOG Altimeter Range and Backscatter Quality Flags have been se SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range and Backscatter Quality Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080645_0C001 Ocean Altimeter Range,	CS_OFFL_SIR_IOPM_2_20230423T054246_20230423T054702_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SS_OFFL_SIR_IOPM_2_202304231061746_202304231062012_C001 Backscatter Quality for one or more records SS_OFFL_SIR_IOPM_2_202304231061746_202304231062012_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Set for one or more records SS_OFFL_SIR_IOPM_2_202304231072158_202304231072158_202304231072743_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCean Altimeter Range and Backscatter Quality Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_202304231072158_202304231072743_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se for one or more records SS_OFFL_SIR_IOPM_2_202304231072908_202304231072908_202304231073524_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records SS_OFFL_SIR_IOPM_2_202304231080645_202304231080733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records Cocean Altimeter Range and Backscatter Quality Flags have beer as for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and Backscatter Quality Flags have beer and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and Backscatter Quality Flags have beer and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and Backscatter Quality Flags have beer and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and Backscatter Quality Flags have beer and Backscatter Quality Flags have beer and Backscatter	CS_OFFL_SIR_IOPM_2_20230423T055034_20230423T061609_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS_OFFL_SIR_IOPM_2_20230423T064323_20230423T071555_C001 and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20230423T072158_20230423T072743_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20230423T072908_20230423T073524_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20230423T072908_20230423T073524_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T0805459_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and	CS_OFFL_SIR_IOPM_2_20230423T061746_20230423T062012_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SS_OFFL_SIR_IOPM_2_2023042310/2158_2023042310/2143_C001 Backscatter Quality for one or more records SS_OFFL_SIR_IOPM_2_202304231072908_202304231072908_202304231073524_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer set for one or more records SS_OFFL_SIR_IOPM_2_202304231080645_202304231080733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer set for one or more records SS_OFFL_SIR_IOPM_2_202304231080645_202304231080733_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer set for one or more records SS_OFFL_SIR_IOPM_2_202304231082051_202304231085459_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer set for one or more records	CS_OFFL_SIR_IOPM_2_20230423T064323_20230423T071555_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS_OFFL_SIR_IOPM_2_20230423T072908_20230423T073524_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have beer SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001 Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer SS_OFFL_SIR_IOPM_2_20230423T082051_20230423T085459_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer SS_OFFL_SIR_IOPM_2_20230423T082051_20230423T085459_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer	CS_OFFL_SIR_IOPM_2_20230423T072158_20230423T072743_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records SS_OFFL_SIR_IOPM_2_20230423T082051_20230423T085459_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and backscatter Quality, OCOG	CS_OFFL_SIR_IOPM_2_20230423T072908_20230423T073524_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
S_OFFL_SIR_IOPM_2_20230423T082051_20230423T085459_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20230423T080645_20230423T080733_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20230423T082051_20230423T085459_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20230423T090104_20230423T090616_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_20230423T090822_20230423T092734_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_20230423T100002_20230423T102811_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_20230423T102821_20230423T103328_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_20230423T103909_20230423T104104_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_20230423T104111_20230423T104525_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_20230423T104741_20230423T111451_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_20230423T112315_20230423T112348_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_20230423T114015_20230423T114222_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_20230423T114259_20230423T115305_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_20230423T115521_20230423T115742_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_20230423T120607_20230423T121256_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_20230423T121443_20230423T122004_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_20230423T122023_20230423T122235_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_20230423T123113_20230423T124337_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_20230423T124511_20230423T125413_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_20230423T125534_20230423T125816_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_20230423T125854_20230423T130215_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_20230423T132411_20230423T133440_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_20230423T134517_20230423T135200_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_20230423T135410_20230423T135904_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_20230423T135923_20230423T135934_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_20230423T135941_20230423T140058_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_20230423T140713_20230423T141129_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_20230423T142506_20230423T143803_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_20230423T145840_20230423T145909_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_20230423T145945_20230423T145951_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_20230423T151535_20230423T153102_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_20230423T153348_20230423T153834_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_20230423T154440_20230423T161139_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_20230423T164452_20230423T171032_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_20230423T171340_20230423T171734_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_20230423T172353_20230423T175116_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_20230423T182756_20230423T185029_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_20230423T185203_20230423T185649_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_20230423T185654_20230423T190024_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_20230423T190341_20230423T193817_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_20230423T195748_20230423T195843_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_20230423T200033_20230423T200127_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_20230423T201211_20230423T201558_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_20230423T202304_20230423T202503_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_20230423T202703_20230423T202946_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_20230423T203154_20230423T203717_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_20230423T204309_20230423T210523_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_20230423T210808_20230423T211700_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_20230423T212958_20230423T213315_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_20230423T213648_20230423T213809_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_20230423T214926_20230423T220856_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_20230423T221122_20230423T221617_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_20230423T222220_20230423T225501_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_20230423T231812_20230423T232042_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_20230423T232058_20230423T234356_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_20230423T235330_20230423T235523_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_20230423T004556_20230423T004734_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_20230423T025653_20230423T025816_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_20230423T090616_20230423T090737_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_20230423T120448_20230423T120450_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_20230423T201113_20230423T201210_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_20230423T213809_20230423T213856_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_20230423T235523_20230424T000149_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_20230423T071556_20230423T071810_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_20230423T112348_20230423T112425_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_20230423T202946_20230423T203028_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_20230423T211700_20230423T212708_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
CS_OFFL_SIR_IOPN_2_20230422T235745_20230423T000154_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_20230423T005058_20230423T005229_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_20230423T011943_20230423T012321_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_20230423T015903_20230423T020253_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_20230423T021626_20230423T022225_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_20230423T023000_20230423T023144_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_20230423T031602_20230423T031822_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_20230423T031857_20230423T032044_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_20230423T032059_20230423T032134_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_20230423T032356_20230423T032519_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_20230423T040902_20230423T041055_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_OFF_SIR_IOPN_2_20230423106014_D02304231050015_0001 OCOG Backscatter Quality Imore records OS_OFF_SIR_IOPN_2_202304231050104_002304231050015_0001 Ocog Backscatter Quality, CCOC Imore records OS_OFF_SIR_IOPN_2_202304231050104_002304231050025_0001 OCOG Attender Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set to more records OS_OFF_SIR_IOPN_2_202304231050104_002304231050027_0001 OCOG Attender Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set to more records OS_OFF_SIR_IOPN_2_202304231050027_0001 OCOG Attender Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set to more records OS_OFF_SIR_IOPN_2_202304231053822_20230423105492 OCOG Attender Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set to more records OS_OFF_SIR_IOPN_2_202304231054124_20230423105492 OCOG Attender Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set to more records OS_OFF_SIR_IOPN_2_20230423105492 OCOG Attender Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set to more records OS_OFF_SIR_IOPN_2_20230423105492 OCOG Attender Range Quality PLRM. The OCOG Range and Backscatter Quality Flags have been set to more records OS_OFF_SIR_IOPN_2_202304231074433_202304231074807_C001 OCOG Ranneer Range Quality PLRM. Th	one or one or one or one or
PLM CS_OFFL_SIR_IOPN_2_20230423T050104_20230423T050225_C001 OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T050824_20230423T050827_C001 OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T050822_20230423T0503982_0001 OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T054192_0230423T054922_0001 OCOG Alimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T054193_20230423T054952_0001 OCCOG Alimeter Range Quality PLMM, OCOG Backscatter Quality FLMM, OCOG Backscatter Quality Flags have been set for more records The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T074803_02230423T074807_C001 OCCG Alimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for more records The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T074803_02230423T076902_C001 OCCG Alimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for more records The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T080344_20230423T06051	one or one or one or
US_OFFL_SIR_JOPN_2_20230423T053822_20230423T053959_0001 OCOG Backscatter Quality more records CS_OFFL_SIR_JOPN_2_20230423T053822_20230423T053959_0001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423T054124_20230423T054952_0001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423T054703_20230423T054952_0001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423T074403_20230423T074807_0001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423T074803_20230423T074807_0001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423T074823_20230423T076002_0001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423T0960541_20230423T0960511_0001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423T094942_20230423T094927_0001 OCOG Attimeter Range SNA, SWH The OCOG Range and Backscatter Quality Flags	one or one or
CS_OFFL_SIR_JOPN_2_20230423103362_20230423103362_2001 OCOG Backscatter Quality Immore records CS_OFFL_SIR_JOPN_2_202304231054245_0001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_202304231054703_202304231054982_0001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_20230423107403_202304231074007_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_202304231074803_202304231075002_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_2023042310760311_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_202304231093022_0001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality Flags have been set for more records The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_JOPN_2_202304231094027_0001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, MoCOG Backscatter Quality PLRM, MoCOG Backscatte	one or Flags
US_OFFL_SIR_IOPN_2_202304231054703_202304231054952_0001 OCOG Backscatter Quality Imore records CS_OFFL_SIR_IOPN_2_202304231054703_202304231054952_0001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_202304231074823_202304231075002_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231074823_202304231075002_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231080348_202304231080511_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231092735_202304231093022_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231093022_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231103504_202304231103909_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231104532_202304231104633_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags hav	lags
CS_OFFL_SIR_IOPN_2_20230423T054703_20230423T054952_C001 and Backscatter Quality PLRM, CCG and Backscatter Quality PLRM, CCG CS_OFFL_SIR_IOPN_2_20230423T074433_20230423T074807_C001 OCCG Altimeter Range and Backscatter Quality PLRM, CCG Backscatter Quality P	0
CS_OFFL_SIR_IOPN_2_202304231074833_202304231074807_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPN_2_202304231074823_202304231075002_C001 OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231080348_202304231080511_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231092735_202304231093022_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231094927_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_202304231103504_202304231103909_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality The OCean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPN_2_202304231104525_202304231104633_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPN_2_202304231112739_202304231112858_C001 Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality The OCean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPN_2_202304231112739_202304231112858_C001 Ocean Altimeter Range Quality PLRM, OCOG	
CS_OFFL_SIR_IOPN_2_2023042310/4823_2023042310/5002_0001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPN_2_20230423T080348_20230423T080511_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T092735_20230423T093022_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T094842_20230423T094927_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T103504_20230423T103909_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Range and Backscatter Quality SHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 Altimeter Range and Backscatter Quality The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have and the OCOG Altimeter Range and Backscatter Quality CS_OFFL	one or
CS_OFFL_SIR_IOPN_2_202304231080346_202304231080511_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPN_2_20230423T092735_20230423T093022_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T094842_20230423T094927_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T103504_20230423T103909_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	one or
CS_OFFL_SIR_IOPN_2_202304231092/35_202304231093022_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPN_2_20230423T094842_20230423T094927_C001 OCOG Backscatter Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T103504_20230423T103909_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 Ocean Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records Ocean Altimeter Range, SSHA, SWH Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range ASHA SWH and Backscatter Quality<	one or
CS_OFFL_SIR_IOPN_2_20230423T1094842_20230423T1094927_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_IOPN_2_20230423T103504_20230423T103909_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T112858_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for more records CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records	one or
CS_OFFL_SIR_IOPN_2_20230423T103504_20230423T103909_C001 and Backscatter Quality PLRM, OCOG Atimeter Range and Backscatter Quality PLRM Ind Ocean Attimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Attimeter Range and Backscatter Quality set for one or more records CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 Cs_oFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality set for one or more records CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Attimeter Range Quality OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records Ocean Attimeter Range, SSHA, SWH Ocean Attimeter Range, SSHA, SWH The OCOG Range and Backscatter Quality Flags have been set for more records	one or
CS_OFFL_SIR_IOPN_2_20230423T104525_20230423T104633_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records CS_OFFL_SIR_IOPN_2_20230423T112739_20230423T112858_C001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records Ocean Attimeter Range, SSHA, SWH The OCOG Attimeter Range, SSHA, SWH The OCOG Attimeter Range, SSHA, SWH	
CS_OFFL_SIR_IOPN_2_202304231112/39_202304231112858_C001 OCOG Backscatter Quality more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH	
	one or
CS_OFFL_SIR_IOPN_2_20230423T130215_20230423T130619_C001 Altimeter Range and Backscatter Quality FLIN, OCOG Altimeter Range and Backscatter Quality Flags have PLRM	
CS_OFFL_SIR_IOPN_2_20230423T135226_20230423T135409_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been been been been been been been be	
CS_OFFL_SIR_IOPN_2_20230423T140058_20230423T140336_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OC	one or
CS_OFFL_SIR_IOPN_2_20230423T141903_20230423T142506_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OC	one or
CS_OFFL_SIR_IOPN_2_20230423T143803_20230423T143926_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality Flags have been set for more records	one or
CS_OFFL_SIR_IOPN_2_20230423T144147_20230423T144224_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality COCOG Backscatter Quality C	one or
CS_OFFL_SIR_IOPN_2_20230423T144239_20230423T144702_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have pLRM.	
CS_OFFL_SIR_IOPN_2_20230423T161924_20230423T162047_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality COCOG Backscatter Quality	
CS_OFFL_SIR_IOPN_2_20230423T162135_20230423T162525_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality COCOG Backscatter Quality	been
CS_OFFL_SIR_IOPN_2_20230423T164247_20230423T164451_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality COCOG Backscatter Quality	been one or
CS_OFFL_SIR_IOPN_2_20230423T171117_20230423T171339_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality COCOG Backscatter Quality	been one or one or

CS_OFFL_SIR_IOPN_2_20230423T172120_20230423T172237_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_20230423T185039_20230423T185203_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_20230423T190024_20230423T190146_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_20230423T193818_20230423T193940_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_20230423T194019_20230423T194145_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_20230423T195903_20230423T195913_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_20230423T201113_20230423T201210_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_20230423T201558_20230423T201720_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_20230423T203028_20230423T203154_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_20230423T203718_20230423T204029_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_20230423T213623_20230423T213648_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_20230423T235055_20230423T235330_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_20230423T235523_20230424T000149_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_20230423T002136_20230423T002201_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_20230423T003458_20230423T004124_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_20230423T010819_20230423T011021_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_20230423T013005_20230423T013501_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_20230423T013501_20230423T013637_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_20230423T024648_20230423T025328_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_20230423T025328_20230423T025455_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_20230423T030952_20230423T031601_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_20230423T032134_20230423T032356_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_20230423T045003_20230423T045100_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_20230423T045125_20230423T045538_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_20230423T053636_20230423T053822_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_20230423T062540_20230423T063622_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

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20230423T071556_20230423T071810_C001	Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230423T080923_20230423T081711_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230423T081834_20230423T081912_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_20230423T093633_20230423T093755_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_20230423T094001_20230423T094102_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_20230423T094102_20230423T094551_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_20230423T094618_20230423T094842_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_20230423T094927_20230423T100002_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_20230423T103329_20230423T103504_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_20230423T112858_20230423T113626_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_20230423T113809_20230423T114015_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_20230423T124338_20230423T124511_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_20230423T130810_20230423T131331_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_20230423T131359_20230423T131505_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_20230423T141130_20230423T141321_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_20230423T143940_20230423T144146_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_20230423T144703_20230423T145137_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_20230423T145137_20230423T145409_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_20230423T150746_20230423T151325_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_20230423T162525_20230423T163040_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_20230423T163112_20230423T163342_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_20230423T172237_20230423T172353_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_20230423T180218_20230423T181114_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_20230423T181134_20230423T181407_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_20230423T190146_20230423T190341_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_20230423T194809_20230423T195139_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_20230423T195257_20230423T195504_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_20230423T204029_20230423T204309_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_20230423T211700_20230423T212708_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_20230423T213456_20230423T213623_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_20230423T221941_20230423T222219_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_20230423T225546_20230423T225604_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_20230423T225611_20230423T225727_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_20230423T225737_20230423T225754_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_20230423T225933_20230423T231144_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_20230423T234356_20230423T235055_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records				
L2 Quality Flags (1 Hz & 1 Hz PLRM)						
Currently, there are several common flags raised in the Level 2 products, wi	hich are summarised below.					
> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.						
Number of products with errors: 198						
5.8 L2 Ocean Retracking Quality Check						
L2 Retracking Flags (20 Hz)						
L2 Retracking Flags (20 R2) 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: 56						
L2 Retracking Flags (20 Hz PLRM)	account record The bit sets of the d	a indicator on unrebleme when ant				
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM m > Ocean Retracking Quality Flag (PLRM): This flag is currently set for products						
given below. Number of products with errors: 148						
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 ens	ure it consists of both an XML header file (.F	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 SI	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						
Number of products with errors: 0						
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:

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).

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 check.

> 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.

> 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_220230422T235538_20230423T004516_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_220230423T004516_20230423T013453_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_220230423T013453_20230423T022431_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_20230423T022431_20230423T031408_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_220230423T031408_20230423T040345_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_20230423T040345_20230423T045323_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_220230423T045323_20230423T054300_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_20230423T054300_20230423T063237_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_20230423T063237_20230423T072215_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_20230423T072215_20230423T081152_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_20230423T081152_20230423T090130_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_20230423T090130_20230423T095107_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_220230423T095107_20230423T104044_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_20230423T104044_20230423T113021_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_220230423T113021_20230423T121959_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_220230423T121959_20230423T130936_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_220230423T130936_20230423T135913_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_220230423T135913_20230423T144851_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_220230423T144851_20230423T153828_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_220230423T153828_20230423T162805_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_220230423T162805_20230423T171743_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_220230423T171743_20230423T180720_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_220230423T180720_20230423T185658_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_220230423T185658_20230423T194635_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_220230423T194635_20230423T203612_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_220230423T203612_20230423T212550_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_220230423T212550_20230423T221527_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_220230423T221527_20230423T230504_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_220230423T230504_20230423T235442_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 Data Check

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

1

Number of products with errors:

Product	Test Failed	Description	
CS_OFFL_SIR_IOP_220230423T194635_20230423T203612_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records	

P2P Quality Flags (20 Hz)

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

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

below.					
Number of products with errors:	29				
P2P Quality Flags (20 Hz PLRM)					
Since the P2P Quality Flags are copied dire below.	ectly 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				
Number of products with errors:	30				
P2P Quality Flags (1 Hz & 1 Hz PLRM)					
Since the P2P Quality Flags are copied dire below.	ectly 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				
Number 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 Patrophing Quality Flag (DI DN) This flag is surrantly get for products IQDD and IQDN products over age iso, but this is to be expected					

> 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.

25

29

Number of products with errors:

P2P Retracking Flags PLRM

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

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

0

Number of products with errors:

7. IOP QCC Report Analysis

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

No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
169	169	5	164	0
128	104	1	103	0
104	128	0	128	0
169	169	111	58	0
128	104	37	67	0
104	128	46	82	0
29	29	0	29	0
	169 128 104 169 128 128 104	169 169 128 104 104 128 169 169 128 104 104 128 104 128	169 169 5 128 104 1 104 128 0 169 169 111 128 104 37 104 128 46	169 169 5 164 128 104 1 103 104 128 0 128 169 169 111 58 128 104 37 67 104 128 46 82

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

umber of QCC repo	rts with warnings	2251	Total numb	per of occurrences of ea	ch warning		
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR IOPM1B	164	0	0	0	0	0	0
SIR IOPM 2	0	37	39	0	43	0	38
SIR IOPN1B	103	0	0	0	0	0	0
SIR IOPN 2	0	9	36	4	30	28	23
SIR_IOPR1B	125	0	0	0	0	0	0
SIR_IOPR_2	0	31	40	0	34	28	18
Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	1	31	0	0	0	0	25
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	1	0	0	26	0	38	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	7	0	46	0	54	0	0
Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	0	0		0
SIR_IOPM_2	0	0	5	27	0		31
SIR_IOPN1B	0	0	0		0		0
SIR_IOPN_2	0	30	12		60		33
SIR_IOPR1B	0	0	0	0	0	-	0
SIR_IOPR_2	43	0	6	63	36	11	41
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR_IOPM1B	0	0	0	0	0		
SIR_IOPM_2	0	4	0	0	0		
SIR_IOPN1B	0	0	0	52	1		
SIR_IOPN_2	34	14	2	0	0		
SIR_IOPR1B	0	0	0	128	12		
SIR_IOPR_2	51	4	1	0	0		
Due due t True e	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	DREZODOEDNODE
Product Type			29		29		
SIR_IOP_2_	16	29	29	4	29	17	28
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPEDSINNCDE	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCD
SIR IOP 2	8		29	23	15		18
011_101_2_	Ŭ						
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
					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
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__20230423T230504_20230423T235442_C002