

# **QA4EO Daily Report for IOP data:**

<u>15/06/2022</u>

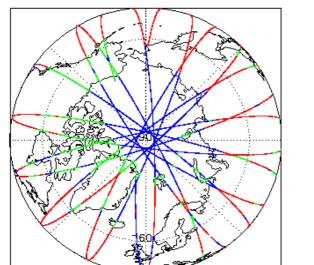
# IDEAS-QA4E0

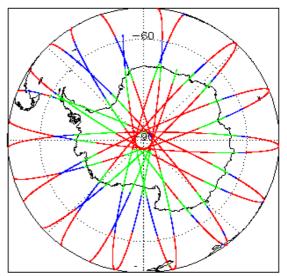
Demonst Dreduction.	20-Jun-2022	Check	L1 & L2	P2P
Report Production:	20-Jun-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Crucest Occan Brasser	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor useu:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Useu:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1, 7.2	See Section 7.1, 7.2

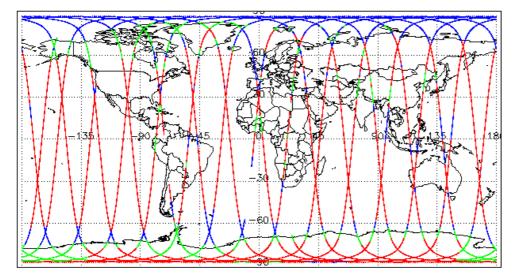
1. Overview

Mission / Ins	Mission / Instrument News		
14-Jun-2022	None		
15-Jun-2022	None		
16-Jun-2022	Nothing planned		











# 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 Analy	sis
For all products, a series of pre-defined chec	ks 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
4.3 L1B Auxilary Data File Usa	ge Check
Each product is checked for missing Data Se	t Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0
4.4 L1B Auxiliary Correction E	rror Check
CryoSat L1B data includes a correction error	flag for each measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:	0
4.5 L1B Measurement Confide	nce Data Check
CryoSat L1B data includes a measurement c	onfidence flag for each measurement record. The bit value of this flag indicates any problems when set.
> Attitude Correction Missing: This flag is oupdate.	currently set in error for IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW
Number of products with errors:	0

## 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_20220615T000425_20220615T003731_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20220615T165747_20220615T170854_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220615T093929_20220615T094513_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220615T112102_20220615T112236_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220615T154255_20220615T154446_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220615T163433_20220615T163551_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20220615T194744_20220615T195233_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220615T003731_20220615T004047_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220615T062957_20220615T063654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220615T094513_20220615T095254_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220615T130252_20220615T131007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220615T144415_20220615T144904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220615T180238_20220615T180325_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20220615T224903_20220615T224950_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).

#### 5.2 L2 Product Header Analysis

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

 Number of products with errors:
 0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20220615T000234_20220615T000425_C001	Iviean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

COLUCTURE COLUCTURE CONTROL CO	CS_OFFL_SIR_IOPN_2_20220615T004047_20220615T004405_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)
Control         Testader (n         Testader (n         Testader (n           Control         Aus Destader (not not not not not not not not not not	CS_OFFL_SIR_IOPN_2_20220615T004917_20220615T005042_C001	Mean Dynamic Topography (1)	
COUNT_DIFLORMON_CALLOSS IN COUNSEL_COUNT       Well Style Styl	CS_OFFL_SIR_IOPN_2_20220615T013134_20220615T013243_C001		
Description         Troppedy (sprint)         Troppedy (sprint)         Troppedy (sprint)           ID_CPTI_DESCRIPTIONE_CALCADDIDIDIDIDIDIDIDIDIDIDIDIDIDIDIDIDIDID	CS_OFFL_SIR_IOPN_2_20220615T022822_20220615T022930_C001	Mean Dynamic Topography (1)	
Displane         Displane         Case of the second	CS_OFFL_SIR_IOPN_2_20220615T031046_20220615T031159_C001		
Control Contrel Control Control Control Control Control Control Contr	CS_OFFL_SIR_IOPN_2_20220615T040526_20220615T040714_C001		<b>ö</b> ( )
Description         Tracewards (1)         Tracewards (1)         Tracewards (1)           CS, DFL, SH, UPH, 2, 202200151 (002300, 20200)         Max Dyname: Traggraphy (1)         There is a mark with the Max Dyname: Traggraphy (1)           CS, DFL, SH, UPH, 2, 202200151 (00230, 20200)         Max Dyname: Traggraphy (1)         There is a mark with the Max Dyname: Traggraphy (1)           CS, DFL, SH, UPH, 2, 202200151 (00240, 202200)         Max Dyname: Traggraphy (1)         There is a mark with the Max Dyname: Traggraphy (1)           CS, DFL, SH, UPH, 2, 202200151 (00240, 202200)         Max Dyname: Traggraphy (1)         There is a mark with the Max Dyname: Traggraphy (1)           CS, DFL, SH, UPH, 2, 202200151 (00240, 202200)         Max Dyname: Traggraphy (1)         There is a mark with the Max Dyname: Traggraphy (1)           CS, DFL, SH, UPH, 2, 202200151 (00240, 202200151 (0024	CS_OFFL_SIR_IOPN_2_20220615T044822_20220615T045114_C001		
CV_CPT_GPT_CPT_CPT_CPT_CPT_CPT_CPT_CPT_CPT_CPT_C	CS_OFFL_SIR_IOPN_2_20220615T054356_20220615T055003_C001		
Control_cal_cal_cal_cal_cal_cal_cal_cal_cal_ca	CS_OFFL_SIR_IOPN_2_20220615T062539_20220615T062957_C001	Mean Dynamic Topography (1)	
Construction         Construction         Press Description         Construction           CS         OFFL_SIN_LOPIC_2.00220151708045         20220151708045 <td>CS_OFFL_SIR_IOPN_2_20220615T071433_20220615T071705_C001</td> <td>Mean Dynamic Topography (1)</td> <td></td>	CS_OFFL_SIR_IOPN_2_20220615T071433_20220615T071705_C001	Mean Dynamic Topography (1)	
Open CPFL Sin, IDPN 2, 20220615100001, 202206151120003, 2001         Near Dynamic Topography (1)         Take is an encode           05, OFFL_SIR, IDPN 2, 20220615112014, 202206151121062, 2001         Near Dynamic Topography (1)         Take is an encode         Take is an encode           05, OFFL_SIR, IDPN 2, 20220615112016, 202206151122104, 2001         Near Dynamic Topography (1)         Take is an encode         Take is an encode           05, OFFL_SIR, IDPN 2, 20220615112016, 202206151122104, 2001         Near Ses Surface (1), Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1)         Take is an encode         Take is an encode           05, OFFL_SIR, IDPN 2, 202206151130513, 202206151130504, 2001         Mean Ses Surface (1), Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1)         Take is an encode         Take is an encode           05, OFFL_SIR, IDPN 2, 202206151130513, 202206151130502, 20220615113050	CS_OFFL_SIR_IOPN_2_20220615T072329_20220615T072641_C001	Mean Dynamic Topography (1)	
Corpert, Sin, UPPL 2, 02206151121328, 202206151121356, 2001       Mean Dynamic Topography (1)       For our an one code         CS, OFFL, SIR, UPPL 2, 02206151121358, 202206151122136, 202206151122136, 202206151122136, 202206151122136, 202206151122136, 202206151122136, 202206151122136, 202206151122136, 20220615112328, 20220615112328, 20220615112328, 20220615112328, 20220615112328, 20220615112328, 20220615112328, 20220615112328, 20220615112388, 2001       Mean Sea Surface (1), Mean Dynamic Topography (a)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (a)         CS, OFFL, SIR, UPPL 2, 202206151130585, 202206151130582, 2001       Mean Sea Surface (1), Mean Dynamic Topography (balt) (colution 1) and the Mean Dynamic Topography (a)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (a)         CS, OFFL, SIR, UPPL 2, 202206151160024, 2001       Mean Sea Surface (1), Mean Dynamic Topography (balt) (colution 1) and the Mean Dynamic Topography (a)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (balt) (colution 1) and the Mean Dynamic Topography (a)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (balt)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (balt)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (balt)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (balt)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (balt)	CS_OFFL_SIR_IOPN_2_20220615T080431_20220615T080820_C001	Mean Dynamic Topography (1)	
Construction         Construction         Mean Result (split (spli	CS_OFFL_SIR_IOPN_2_20220615T090418_20220615T090535_C001	Mean Dynamic Topography (1)	
CS_DFRSIR_UOPN_2_20220615T135016_20220615T13540_C001         Topography (1)         Topography height (solution 1)           GS_OFFL_SIR_UOPN_2_20220615T135016_20220615T135060_C001         Mean Sea Surface (1), Mean Dyname         There is an ence with the MSS height (solution 1) and the Mean Dyname           GS_OFFL_SIR_UOPN_2_20220615T135060_0001         Mean Sea Surface (1), Mean Dyname         There is an ence with the MSS height (solution 1) and the Mean Dyname           GS_OFFL_SIR_UOPN_2_20220615T153060_0001         Mean Sea Surface (1), Mean Dyname         There is an ence with the MSS height (solution 1) and the Mean Dyname           CS_OFFL_SIR_UOPN_2_20220615T153060_0001         Mean Sea Surface (1), Mean Dyname         There is an ence with the MSS height (solution 1) and the Mean Dyname           CS_OFFL_SIR_UOPN_2_20220615T163060_002220615T163060_0001         Mean Sea Surface (1), Mean Dyname         Topography (1)         There is an ence with the MSS height (solution 1), the Mean Dyname           CS_OFFL_SIR_UOPN_2_20220615T163060_00220615T1631042_0001         Mean Sea Surface (1), Mean Dyname         Topography (1)         There is an ence with the MSS height (solution 1)           CS_OFFL_SIR_UOPN_2_20220615T190141_20220615T1631042_0001         Mean Sea Surface (1), Mean Dyname         Topography (1)         There is an ence with the MSS height (solution 1) and the Mean Dyname           CS_OFFL_SIR_UOPN_2_20220615T1261042_0001         Mean Sea Surface (1), Mean Dyname         Topography (1)         There is an ence with the MSS height (solution 1) and the Mean Dyname <td>CS_OFFL_SIR_IOPN_2_20220615T121329_20220615T121455_C001</td> <td>Mean Dynamic Topography (1)</td> <td></td>	CS_OFFL_SIR_IOPN_2_20220615T121329_20220615T121455_C001	Mean Dynamic Topography (1)	
Description       Tepography (1)       Tepography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T158915_20220615T158282_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1) and the Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T163035_20220615T165828_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T163035_20220615T165828_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1), the Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T163035_20220615T164082_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1), the Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T180345_20220615T180428_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T180144_20200615T180344_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T180144_20200615T180534_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T1205344_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T221422_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T220128_20220615T221422_C001       Mean Sea Surface (1), Mean Dynamic Tapography height (exition 1)         CS_OFFL_SIR_IOPN_2_20220615T220162_20220615T22	CS_OFFL_SIR_IOPN_2_20220615T122015_20220615T122323_C001		
CS_OFFL_SIR_UOPN_2_20220615T153083_00200615T153082_C001       Topography (1)       Topography (1)       Topography (1)         CS_OFFL_SIR_UOPN_2_20220615T153083_00200615T153082_C001       Mean Ses Surface (1), Mean Dynamic Topography (1)       Topography (1)       Topography (1)       Topography (1)         CS_OFFL_SIR_UOPN_2_20220615T168083_0001       Mean Ses Surface (1), Mean Dynamic Topography (1)	CS_OFFL_SIR_IOPN_2_20220615T135313_20220615T135540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	
No. DMPL_2.402.0615115335_402.001       Topography (1)       Topography (2)         CS_OFFL_SIR_IOPN_2_20220615716203_20206157163032_001       Mans Sas Sufface (1). Mean Dynamic Topography (1). Total Geocentric Ocean Tide (colution 1).         CS_OFFL_SIR_IOPN_2_202206157180325_202206157180428_0001       Mean Sas Sufface (1). Mean Dynamic Topography (1)       There is an error with the MSS height (colution 1).         CS_OFFL_SIR_IOPN_2_202206157180331_202206157180428_0001       Mean Dynamic Topography (1)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202206157180142_20206157190144_2001       Mean Sas Sufface (1). Mean Dynamic Topography (1)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202206157190141_202206157190344_0001       Mean Sas Sufface (1). Mean Dynamic Topography (1)       There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1). Tore is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1). Tora Geocentro Cocean Tele         CS_OFFL_SIR_IOPN_2_2022061571221423_0001       Mean Sas Sufface (1). Mean Dynamic Topography (1). Tore is an error with the MSS height (colution 1), the Mean Dynamic Topography (1). Tore is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1). Tore is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1). Tore is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1). Tore is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1). Tore is an error with the MSS height (colution 1) and the Mean Dynam	CS_OFFL_SIR_IOPN_2_20220615T135915_20220615T140247_C001		
CS_OFFL_SIR_IOPN_2_20220615T16201_20220615T160322_C001       Trade (GOT)       Trade (Societtic Cecan Tide (solution 1): Trade (GOT)         CS_OFFL_SIR_IOPN_2_20220615T160325_20220615T180428_C001       Mean Dynamic Topography (1)       There is an error with the Maan Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T160325_20220615T180428_C001       Mean Dynamic Topography (1)       There is an error with the Maan Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T190141_20220615T190344_C001       Mean Dynamic Topography (1)       There is an error with the Maan Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T190141_20220615T190344_C001       Mean Dynamic Topography (1)       There is an error with the Maan Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T190141_20220615T190344_C001       Mean Sa Surface (1), Mean Dynamic Topography (1)       There is an error with the Mass Deight (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T221423_C001       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)       There is an error with the MASS height (solution 1), the Mean Dynamic Topography (solution 1), and the Mean Dynamic Topography (solution 1), and the Mean Dynamic Topography (solution 1)         CS_OFFL_SIR	CS_OFFL_SIR_IOPN_2_20220615T153353_20220615T153628_C001		
US_OFFL_SIR_IOPN_2_202206151180325_20220615118042_0001       Mean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPN_2_202206151180031_20220615118042_0001       Mean Sas 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_202206151190141_202206151190344_0001       Mean Sas 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_202206151291028_202206151221423_0001       Mean Sas Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T221423_0001       Mean Sas Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T222015_02220615T222141_0001       Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T235017_20220615T23530_0001       Mean Sas Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20220615T23546_0220615T031912_0001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1)         CS_OFFL_SIR_IOPR_2	CS_OFFL_SIR_IOPN_2_20220615T162901_20220615T163023_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
US_OFFL_SIR_IOPN_2_20220615T190141_20220615T190344_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20220615T190141_20220615T195233_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T1221028_20220615T1221423_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (CONT), Total Geocentric	CS_OFFL_SIR_IOPN_2_20220615T180325_20220615T180428_C001	Mean Dynamic Topography (1)	
US_OFFL_SIR_IOPN_2_20220615T190141_20220615T195233_C001       Mean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPN_2_20220615T194744_20220615T195233_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T221423_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T222015_20220615T222142_C001       Mean Sea Surface (1), Mean Dynamic Topography (2)       There is an error with the MSS height (solution 1), and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T225017_20220615T225013_20220615T225141_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T235017_20220615T235030_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T012422_20220615T012857_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T031159_20220615T031912_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)       There is an error with the	CS_OFFL_SIR_IOPN_2_20220615T180831_20220615T181042_C001		
CS_OFFL_SIR_IOPN_2_20220615T19144_20220615T19523_0001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T221423_C001       Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1)         CS_OFFL_SIR_IOPN_2_20220615T222015_20220615T222141_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20220615T235017_20220615T235330_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)       There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20220615T235846_20220615T235958_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_20220615T012422_20220615T012857_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_20220615T031159_20220615T031912_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T0315063504_C001       Mean Sea Sur	CS_OFFL_SIR_IOPN_2_20220615T190141_20220615T190344_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T221423_C001       Topography (1). Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perior       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (2). Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perior         CS_OFFL_SIR_IOPN_2_20220615T222015_20220615T222141_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and tidal corrections for one or more records         CS_OFFL_SIR_IOPN_2_20220615T225017_20220615T235330_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (e) the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20220615T235846_20220615T235958_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_20220615T012422_20220615T012857_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_20220615T01159_20220615T031912_C001       Mean Sa Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T045142_20220615T045842_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T0689820_20220615T063654_C001	CS_OFFL_SIR_IOPN_2_20220615T194744_20220615T195233_C001	Topography (1)	
CS_OFFL_SIR_IOPN_2_202206151222015_202206151222013       Wean bynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPN_2_202206157235017_202206157235330_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202206157235846_202206157235958_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_202206157012422_202206157012857_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_202206157031159_202206157031912_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202206157045114_202206157045842_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202206157045114_202206157045842_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202206157062957_202206157063654_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_2022061570680820_202206157081700_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS	CS_OFFL_SIR_IOPN_2_20220615T221028_20220615T221423_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
CS_OFFL_SIR_IOPN_2_202206151235046_202206151235303_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20220615T235846_20220615T235958_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T012422_20220615T012857_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T031159_20220615T031912_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T045114_20220615T045842_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T08	CS_OFFL_SIR_IOPN_2_20220615T222015_20220615T222141_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPR_2_20220615T012422_2020615T012857_C001       Mean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPR_2_20220615T012422_20220615T012857_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_20220615T031159_20220615T031912_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T045114_20220615T045842_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T084513_20220615T08524_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       <	CS_OFFL_SIR_IOPN_2_20220615T235017_20220615T235330_C001		
CS_OFFL_SIR_IOPR_2_202206151012422_202206151012837_C001       Mean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPR_2_20220615T031159_20220615T031912_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T045114_20220615T045842_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T084513_20220615T084514_2020615T085254_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T094513_20220615T095254_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T094513_20220615T095254_C001       Mean Sea Surface (1), Mean Dynamic Topography heig	CS_OFFL_SIR_IOPN_2_20220615T235846_20220615T235958_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPR_2_20220615T045114_20220615T045842_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T045114_20220615T045842_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_20220615T062957_20220615T063654_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_20220615T080820_20220615T081700_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_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T084513_20220615T085254_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20220615T012422_20220615T012857_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T063654_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T094513_20220615T095254_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20220615T031159_20220615T031912_C001		
CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T084513_20220615T095254_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20220615T045114_20220615T045842_C001		
CS_OFFL_SIR_IOFR_2_20220615T094513_20220615T095254_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_C001		
	CS_OFFL_SIR_IOPR_2_20220615T080820_20220615T081700_C001		
	CS_OFFL_SIR_IOPR_2_20220615T094513_20220615T095254_C001		
CS_OFFL_SIR_IOPR_2_20220615T112446_20220615T113107_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_20220615T112446_20220615T113107_C001		

CS_OFFL_SIR_IOPR_2_20220615T113107_20220615T113409_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_IOPR_2_20220615T1310252_20220615T131007_C001Mean 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_20220615T131007_20220615T131145_C001Mean 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) and the Mean DynamicCS_OFFL_SIR_IOPR_2_20220615T144405_20220615T144904_0001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_IOPR_2_20220615T144404_20220615T145030_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_IOPR_2_20220615T16214_20220615T162747_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_IOPR_2_20220615T181422_20220615T181519_C001Mean Sea Surface (1), Mea			
CS_OFFL_SIR_IOPR_2_20220615113002_202206151131007_20020615T131145_C001       Topography (1)       Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T131007_20220615T131145_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T144415_20220615T144404_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T144904_20220615T145030_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T162161_20220615T162747_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162747_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T16291_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180518_C001       Mean Sea Sur	CS_OFFL_SIR_IOPR_2_20220615T113107_20220615T113409_C001		
US_OFFL_SIR_IOPR_2_20220615T13100/_20220615T144904_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T144415_20220615T144904_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T144904_20220615T145030_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T162151_20220615T162747_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162747_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162901_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_0001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180531_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180531_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T18048	CS_OFFL_SIR_IOPR_2_20220615T130252_20220615T131007_C001		
CS_OFFL_SIR_IOPR_2_202206151144415_202206151144904_2020615T145030_C001       Topography (1)       Topography leight (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T144904_20220615T145030_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T162151_20220615T162747_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162901_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180831_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T181427_20220615T181519_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1).         CS_OFFL_SIR_IOPR_2_20220615T2194048_20	CS_OFFL_SIR_IOPR_2_20220615T131007_20220615T131145_C001		
CS_OFFL_SIR_IOPR_2_20220615T144904_20220615T145030_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T162151_20220615T162747_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162901_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T181427_20220615T181519_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FS), Non- Equilibrium Long Period Ocean Tide (solution 1) and the Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T194048_20220615	CS_OFFL_SIR_IOPR_2_20220615T144415_20220615T144904_C001		
CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162901_C001       Topography (1)       Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162901_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180518_20220615T180518_20220615T180518_20220615T180518_20220615T180518_20220615T180518_20220615T180518_20220615T180518_20220615T180518_20220615T181519_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T181427_20220615T181519_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T194048_20220615T194744_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS	CS_OFFL_SIR_IOPR_2_20220615T144904_20220615T145030_C001		
CS_OFFL_SIR_IOPR_2_202206151162/4/_202206151162901_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180831_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180831_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_20220615T181427_20220615T181519_C001       Mean Sea Surface (1), Mean Dynamic       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 (FES), Non-Equilibrium Long Period Ocean Tide (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T194048_20220615T194744_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)     <	CS_OFFL_SIR_IOPR_2_20220615T162151_20220615T162747_C001		
CS_OFFL_SIR_IOPR_2_202206151180428_20220615T180518_C001       Topography (1)       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T180518_20220615T180531_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_20220615T181427_20220615T181519_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         CS_OFFL_SIR_IOPR_2_20220615T194048_20220615T194744_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topogra	CS_OFFL_SIR_IOPR_2_20220615T162747_20220615T162901_C001		
CS_OFFL_SIR_IOPR_2_202206151180518_202206151180831_C001       Topography (1)       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_202206151181427_20220615T181519_C001       Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FS), Non-Equilibrium Long Period Ocean Tide (Solution 1): GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T194048_20220615T194744_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T2230154_20220615T225200_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T2230154_20220615T223049_C00	CS_OFFL_SIR_IOPR_2_20220615T180428_20220615T180518_C001		
CS_OFFL_SIR_IOPR_2_20220615T181427_20220615T181519_C001       Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (Solution 1), the Total Geocentric Ocean Tide (Solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T194048_20220615T194744_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T2225058_20220615T225200_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T2230154_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T2230154_20220615T225200_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_20220615T180518_20220615T180831_C001		
CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T22500_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20220615T2230154_20220615T2230040_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20220615T181427_20220615T181519_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non-
CS_OFFL_SIR_IOPR_2_202206151212246_202206151212811_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_202206151225058_202206151225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_2022061512250058_202206151225200_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_202206157230154_202206157230040_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20220615T194048_20220615T194744_C001		
CS_OFFL_SIR_IOPR_2_202206151225058_202206151225200_C001 Mean Dynamic Topography (1) for one or more records CS_OFFL_SIR_IOPR_2_2022061512230154_202206151225200_C001 Mean Dynamic Topography (1) for one or more records CS_OFFL_SIR_IOPR_2_2022061512230154_202206151225200_C001 Mean Dynamic Topography (1) for one or more records	CS_OFFL_SIR_IOPR_2_20220615T212246_20220615T212811_C001		
	CS_OFFL_SIR_IOPR_2_20220615T225058_20220615T225200_C001	Mean Dynamic Topography (1)	, , , , , , , , , , , , , , , , , , , ,
	CS_OFFL_SIR_IOPR_2_20220615T230154_20220615T230949_C001		

# 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.

0

## 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.

Name         Human         Biological Coupley         Descent Coupley         The Occor Alternet Prage         Selection Coupley           52, OFTL, SPL, OFM J, 20220157101611, 20220157101617, COUP         Coor Alternet Prage         Sile OFTL, SPL, OFM J, 20220157101617, 20201         Coor Alternet Prage         Sile OFTL, SPL, OFM J, 20220157101617, COUP         The Occor Alternet Prage, SPL, SPH, OFTL and Backager Coupley           52, OFTL, SPL, OFM J, 20220157101617, 2020         Coor Alternet Prage         Sile OFTL SPL, OFTL ADDECOUPLEY         The Occor Alternet Prage, SPL, SPH, OFTL and Backager Coupley           52, OFTL, SPL, OFM J, 20220157101617, COUP         Coor Alternet Prage         Sile OFTL SPL, OFTL ADDECOUPLEY         The Occor Alternet Prage, SPL, SPH, OFTL and Backager Coupley           52, OFTL, SPL, OFM J, 20220157101677, COUP         Coor Alternet Prage         Sile OFTL SPL, OFTL ADDECOUPLEY         The Occor Alternet Prage, SPL, SPH, OFTL ADDECOUPLEY           52, OFTL, SPL, OFM J, 20220157102411, 20220157102422         COUP         Coor Alternet Prage, SPL, SPH, OFTL ADDECOUPLEY         The Occor Alternet Prage, SPL, SPH, OFTL ADDECOUPLEY           52, OFTL, SPL, OFM J, 20220157102411, 20220157102422         COUP         Coor Alternet Prage, SPL, SPH, OFTL ADDECOUPLEY           53, OFTL, SPL, OFM J, 20220157102411, 20220157102422         COUP         Coor Alternet Prage, SPL, SPH, OFTL ADDECOUPLEY           54, OFTL, SPL, OFM J, 20220157102417, 20200157103400, 20001         Coor AlternetPrage and Backager CoupleY, SPL	Product	Test Failed	Description
A. UPL SHIL SHILL S	CS_OFFL_SIR_IOPM_2_20220615T000425_20220615T003731_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sp. DPL_SRL_OPPL_2_SUZDBIT1010311_DDDD         Instruction Program         Instru	CS_OFFL_SIR_IOPM_2_20220615T004405_20220615T004917_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SS OFF_ SIR_UCPM 2 24220415101287 242204151002187 0001 whether Flags and Backsatter Quality CROC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the COC Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altimeter Flags and Backsatter Quality Flags have been and the Coc Altime	CS_OFFL_SIR_IOPM_2_20220615T005311_20220615T011101_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sp. OFFL_SIR_JOPM_2_2022011010054_022201101010103_0001     and Blackeether Quarky, PO200     and Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_2022011010054_022201101010103_0001     Qcan Alimeter Range SUHA, SWH     The OCOO Alimeter Range SUHA SWH       Sp. OFFL_SIR_JOPM_2_20220110102054_022201101010103_0001     QCOO Alimeter Range Quarky, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_022202_0001     QCOO Alimeter Range Quarky, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_02202_0001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_02202_0001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_02202_0001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_02202_0001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_02202_0010102054_0001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_02001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PO200       Sp. OFFL_SIR_JOPM_2_20220110102054_02001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PE200       Sp. OFFL_SIR_JOPM_2_20220110102054_02001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PE200       Sp. OFFL_SIR_JOPM_2_20220110102054_02001     QCOO Alimeter Range SUHA, SWH are Blackeether Quarky, PE200       Sp. OFFL_SIR_JOPM_2_20220110102542_0200110102542_0001 <t< td=""><td>CS_OFFL_SIR_IOPM_2_20220615T012857_20220615T012917_C001</td><td>and Backscatter Quality, OCOG</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></t<>	CS_OFFL_SIR_IOPM_2_20220615T012857_20220615T012917_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS, OFFL_SIR_JOPM_2_20220615T025612_20220615T025610_C001       Ind Buckscatter Quality, CODD Methoder Proge and Buckscatter Quality, CODD Methoder Proge and Buckscatter Quality CODD Methoder Proge and Buckscatter Quality CODD Methoder Proge and Buckscatter Quality Fage have been and the CODD Altereter Parage and Buckscatter Quality Fage have been and buckscatter Quality CODD Methoder Proge and Buckscatter Quality Fage have been and buckscatter Quality CODD Altereter Parage and Buckscatter Quality Fage have been and buckscatter Quality CODD Altereter Parage and Buckscatter Quality Fage have been and buckscatter Quality CODD Altereter Parage and Buckscatter Quality Fage have been and buckscatter Quality CODD Altereter Parage and Buckscatter Quality Fage have been and buckscatter Quality CODD Altereter Parage and Buckscatter Quality Fage have been and buckscatter Quality Fage have been and buckscatter Quality Fage have been Altereter Farage and Buckscatter Quality Fage have been and buckscatter Quality Fage have been a	2S_OFFL_SIR_IOPM_2_20220615T014157_20220615T020518_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
Backscaller Quality         Backscaller Quality         for one or more records           SS_OFFL_SIR_IOPM_2_20220615T02305_20220615T025910_C001         Coen Akmeter Rangs, SSHA, SWH and Backscaller Quality Flags have beer Akmeter Rangs and Backscaller Quality, C000         The Ocean Akmeter Rangs, SSHA, SWH and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T023064_20220615T031046_C001         OCEGA Akmeter Rangs, SSHA, SWH and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T023042_00220615T031046_C001         OCEGA Akmeter Rangs and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T030442_00220615T031046_C001         OCEGA Akmeter Rangs and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T031912_20220615T031046_C001         OCEGA Akmeter Rangs, SSHA, SWH and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T035192_00220615T035192_00201         Ocean Akmeter Rangs, SSHA, SWH and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T035192_00220615T035192_00201         Ocean Akmeter Rangs, SSHA, SWH and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T035192_00220615T035192_00201         Ocean Akmeter Rangs, SSHA, SWH and Backscaller Quality Flags have beer set for one or more records           SS_OFFL_SIR_IOPM_2_20220615T045192_00201         Ocean Akmeter Rangs, SSHA, SWH and Backscaller Quali	2S_OFFL_SIR_IOPM_2_20220615T020534_20220615T021603_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sig. OFFL_SIR_IOPM_2_20220615T023582_20220615T025845_0001       and Backacatter Quality. COC0 Attineter Range and Backacatter Quality. The OCOCA Attineter Range and Backacatter Quality Range have been Attineter Range and Backacatter Quality. The OCOCA Attineter Range and Backacatter Quality Range have been Attineter Range and Backacatter Quality. COC0 Attineter Range and Backacatter Quality. Fags have been are to coco ar more records.         S5_OFFL_SIR_IOPM_2_20220615T035714_02220615T035714_02220615T045031_0.00201       COC0 Attineter Range Quality.COC0 Attineter Range and Backacatter Quality. Fags have been are for one or more records.         S5_OFFL_SIR_IOPM_2_20220615T04574_02220615T045031_0.00201       COC0 Attineter Range Quality.COC0 Attineter Range and Backacatter Quality. Fags have been are for one or more records.         S5_OFF	2S_OFFL_SIR_IOPM_2_20220615T022411_20220615T022822_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SB, OFFL, SIR, IOPM, 2, 20220615T025827, 20220615T030646, C001     and Backscatter Quality, COOG Backscatter Quality, COOG Backscatter Quality, COOG Attimuter Range and Backscatter Quality Flags have been se for one records     med the COOG Attimuter Range and Backscatter Quality Flags have been se for one records       SB, OFFL, SIR, IOPM, 2, 20220615T030942, 20220615T030142, 20220615T030142, 20220615T030142, 20220615T030344, 2002     COCGA Attimuter Range, SSHA, SWH and Backscatter Quality, COOG Attimuter Range and Backscatter Quality, Flags have been se for one rimore records       SB, OFFL, SIR, IOPM, 2, 20220615T0303142, 20220615T035116, C001     Corean Attimuter Range, SSHA, SWH and Backscatter Quality, COOG Attimuter Range and Backscatter Quality, Flags have been set for one rimore records       SB, OFFL, SIR, IOPM, 2, 20220615T035210, 20220615T035530, C001     Corean Attimuter Range, SSHA, SWH and Backscatter Quality, COOG Attimuter Range and Backscatter Quality, Flags have been set for one rimore records       SB, OFFL, SIR, IOPM, 2, 20220615T035746, 20220615T035530, C001     Corean Attimuter Range, Quality, COOG Backscatter Quality, COOG Attimuter Range and Backscatter Quality, Flags have been se for one rimore records       SB, OFFL, SIR, IOPM, 2, 20220615T040310, 20220615T040310, C002     COCO Attimuter Range Quality, COOG Backscatter Quality, Flags have been se for one rimore records       SB, OFFL, SIR, IOPM, 2, 20220615T040310, 20220615T040310, C002     COCO Attimuter Range Quality, COOG Attimuter Range SHA, SWH and Backscatter Quality, Flags have been se for one rimore records       SB, OFFL, SIR, IOPM, 2, 20220615T040310, 20220615T040310, 20220615T040310, 20220615T040310, 20220615T040328, C0001       SB, OFFL, SIR, IOPM, 2, 20220615T0	CS_OFFL_SIR_IOPM_2_20220615T023305_20220615T025910_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backcatter Quality         Iter one or more records           SS_OFFL_SIR_IOPM_2_20220615T0331912_20220615T033343_C001         Ocean Altimeter Range. SSHA, SWH and Backcatter Quality Flags have beer and the OCCOR Altimeter Range and Backcatter Quality Flags have beer and the OCCOR Altimeter Range and Backcatter Quality Flags and the OCCOR Altimeter Range and Backcatter Quality Flags have been and the OCCOR Altimeter Range and Backcatter Quality Flags have been and the ore or more records           SS_OFFL_SIR_IOPM_2_20220615T035746_20220615T040317_C001         OCCOR Altimeter Range Quality.OCCOR Backcatter Quality         The OCCOR Altimeter Range and Backcatter Quality Flags have been and tor one or more records           SS_OFFL_SIR_IOPM_2_20220615T040310_20220615T040317_C001         OCCOR Altimeter Range Quality.OCCOR Backcatter Quality         The OCCOR Altimeter Range and Backcatter Quality Flags have been and tor one or more records           SS_OFFL_SIR_IOPM_2_20220615T044477_20220615T04639_C001         OCCOR Altimeter Range ALTimeter Range and Backcatter Quality Flags and the OCCOR Altimeter Range and Backcatter Quality Flags and the OCCOR Altimeter Range and Backcatter Quality Flags and the OCCOR Altimeter Range and Backcatter Quality Fl	CS_OFFL_SIR_IOPM_2_20220615T025927_20220615T030645_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SJ, OFFL, SIR, IOPM, 2, 20220615T031912, 20220615T033343, C001       and Backscatter Quality, COCO Attimeter Range, and Backscatter Quality, COCO Attimeter Range, SSHA, SWH and Backscatter Quality, Flags have beer after one or more records         SJ, OFFL, SIR, IOPM, 2, 20220615T033824, 20220615T035116, C001       Coan Altimeter Range, SSHA, SWH and Backscatter Quality, COCO Attimeter Range, SSHA, SWH and Backscatter Quality, Flags and Backscatter Quality, COCO Attimeter Range, SSHA, SWH and Backscatter Quality, Flags after one or more records         SJ, OFFL, SIR, IOPM, 2, 20220615T035210, 20220615T035533_0001       Cocan Altimeter Range, SSHA, SWH and Backscatter Quality, COCO Attimeter Range and Backscatter Quality, Flags after O and or more records         SJ, OFFL, SIR, IOPM, 2, 20220615T035746, 20220615T040310_20220615T040317_C001       COCG Altimeter Range Quality, COCO Backscatter Quality       The OCGG Altimeter Range and Backscatter Quality Flags have been se for one or more records         SJ, OFFL, SIR, IOPM, 2, 20220615T040310_20220615T040317_C001       COCGG Altimeter Range Quality, COCG Backscatter Quality       The OCGG Altimeter Range and Backscatter Quality Flags have been se for one or more records         SJ, OFFL, SIR, IOPM, 2, 20220615T040323_20220615T040326_C001       COCGG Altimeter Range Quality, COCG Backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags have been se for one or more records       The OCGGA Altimeter Range and Backscatter Quality, Flags have been se for one or more records         SJ, OFFL, SIR, IOPM, 2, 20220615T0406283_20220615T0405263_20220615T045263_20220615T054266_C001       Cocan Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quali	CS_OFFL_SIR_IOPM_2_20220615T030842_20220615T031046_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
S2_OFFL_SIR_JOPM_2_20220615T033824_20220615T03516_C001       and Backscatter Quality. COCG       and the OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         DS_OFFL_SIR_JOPM_2_20220615T035210_20220615T035533_C001       Cocean Altimeter Range and Backscatter Quality. COCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         DS_OFFL_SIR_JOPM_2_20220615T040310_20220615T040304_C001       COCGA Altimeter Range Quality. COCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         DS_OFFL_SIR_JOPM_2_20220615T040310_20220615T040317_C001       COCGA Altimeter Range Quality. COCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         DS_OFFL_SIR_JOPM_2_20220615T040310_20220615T040317_C001       COCGA Altimeter Range Quality. COCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been se for one or more records         DS_OFFL_SIR_JOPM_2_20220615T041407_20220615T040526_C001       COCGA Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been se for one or more records       The OCCGA Altimeter Range and Backscatter Quality Flags have been se for one or more records         DS_OFFL_SIR_JOPM_2_20220615T041407_20220615T044619_C001       COCGA Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been se for one or more records       The OCCGA Altimeter Range and Backscatter Quality Flags have been se for one or more records         DS_OFFL_SIR_JOPM_2_20220615T042653_20220615T051746_C001       Occean Altimeter Range. SSHA, SWH and Backscatter Quali	CS_OFFL_SIR_IOPM_2_20220615T031912_20220615T033343_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
S2_OFFL_SIR_IOPM_2_20220615T035210_20220615T035233_C001       and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have beer Attimeter Range and Backscatter Quality, Flags have beer adsocatter Quality       and the OCOG Attimeter Range and Backscatter Quality Flags have beer adsocatter Quality         S2_OFFL_SIR_IOPM_2_20220615T035746_20220615T040310_20220615T040310_20220615T040317_C001       DCOG Attimeter Range Quality, OCOG Backscatter Quality       The OCOG Attimeter Range and Backscatter Quality Flags have beer as tor one or more records         S3_OFFL_SIR_IOPM_2_20220615T040310_20220615T040317_C001       DCOG Attimeter Range Quality, OCOG Backscatter Quality       The OCOG Attimeter Range and Backscatter Quality Flags have beer as tor one or more records         S3_OFFL_SIR_IOPM_2_20220615T040323_20220615T040526_C001       DCOG Attimeter Range, SHA, SWH and Backscatter Quality       The OCOG Attimeter Range and Backscatter Quality Flags tar the OCOG Attimeter Range and Backscatter Quality Flags tar the OCOG Attimeter Range and Backscatter Quality Flags tar the OCOG Attimeter Range, SHA, SWH and Backscatter Quality Flags tar the OCOG Attimeter Range, SHA, SWH and Backscatter Quality Flags tar the OCOG Attimeter Range, SHA, SWH and Backscatter Quality Flags tar the OCOG Attimeter Range, SHA, SWH and Backscatter Quality Flags tar the OCOG Attimeter Range, SHA, SWH and Backscatter Quality Flags tar the OCOG Attimeter Range, SHA, SWH and Backscatter Quality Flags tar the OCOG Attimeter Range and Backscatter Quality Flags tar the OCOG Attimeter Range and Backscatter Quality Flags tar the OCOG Attimeter Range, SHA, SWH and Backscatter Quality Flags tar to one or more records         S2_OFFL_SIR_IOPM_2_	CS_OFFL_SIR_IOPM_2_20220615T033824_20220615T035116_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
S_DFFL_SIR_IOPM_2_202206151040310_20220615T040317_C001       Backscatter Quality       for one or more records         SS_OFFL_SIR_IOPM_2_20220615T040310_20220615T040317_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T040323_20220615T040526_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T041407_20220615T042639_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T042633_0220615T044619_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T042653_0220615T044619_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T050815_20220615T051746_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T052023_20220615T055126_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T0550202_020615T055126_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T0550262_0220615T055126_C001       Ocean Altimeter Range and Backscatter Quality Flags have bee	CS_OFFL_SIR_IOPM_2_20220615T035210_20220615T035533_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS_OFFL_SIR_IOPM_2_202206151040312_002206151040317_0001       Backscatter Quality       for one or more records         SS_OFFL_SIR_IOPM_2_20220615T040323_20220615T040526_C001       DCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T041407_20220615T042639_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG       The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T042653_20220615T044619_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG       The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and Backscatter Quality, OCCG         SS_OFFL_SIR_IOPM_2_20220615T050815_20220615T051746_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG         SS_OFFL_SIR_IOPM_2_20220615T050815_20220615T053426_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG         SS_OFFL_SIR_IOPM_2_20220615T053711_20220615T053426_C001       Ocean Altimeter Range and Backscatter Quality, OCCG         SS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       OCCG Altimeter Range Quality, OCCG         SS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been se for one or more records         SS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       OCCGA Altimeter Range, SSHA, SWH and Backscatter	CS_OFFL_SIR_IOPM_2_20220615T035746_20220615T040304_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
SS_OFFL_SIR_IOPM_2_202206151043323_202206151043263_0001       Backscatter Quality       for one or more records         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer set for one or more records         DS_OFFL_SIR_IOPM_2_20220615T042853_20220615T044619_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have beer set for one or more records         DS_OFFL_SIR_IOPM_2_20220615T053711_20220615T054216_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records         DS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records         DS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have beer set fo	CS_OFFL_SIR_IOPM_2_20220615T040310_20220615T040317_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
S2_OFFL_SIR_IOPM_2_20220615T041407_20220615T042639_C001       and Backscatter Quality, OCOG       and the COCG Altimeter Range and Backscatter Quality       and the COCG Altimeter Range and Backscatter Quality       File Ocean Altimeter Range and Backscatter Quality       File Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         S2_OFFL_SIR_IOPM_2_20220615T050815_20220615T051746_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer act for one or more records         S2_OFFL_SIR_IOPM_2_20220615T050815_20220615T051746_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer act for one or more records         S2_OFFL_SIR_IOPM_2_20220615T050815_20220615T051746_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer act for one or more records         C2S_OFFL_SIR_IOPM_2_20220615T052023_20220615T053426_C001       Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer act for one or more records       The OCCGA Altimeter Range and Backscatter Quality Flags have beer set for one or more records         C2S_OFFL_SIR_IOPM_2_20220615T053711_20220615T054216_C001       COCGA Altimeter Range Quality, OCCG       The OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer for one or more records         C2S_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       Occean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer for one or more records	CS_OFFL_SIR_IOPM_2_20220615T040323_20220615T040526_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T042853_20220615T044619_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Rang	CS_OFFL_SIR_IOPM_2_20220615T041407_20220615T042639_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_IOPM_2_20220615T050815_20220615T051746_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T052023_20220615T053426_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have beer set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T053711_20220615T053426_C001       Ocean Attimeter Range Quality, OCOG Altimeter Range Quality, OCOG       The OCCG Altimeter Range and Backscatter Quality Flags have beer set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T053711_20220615T054216_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T05046_20220615T055154_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more re	CS_OFFL_SIR_IOPM_2_20220615T042853_20220615T044619_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220615T052023_20220615T053426_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T053711_20220615T054216_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20220615T050815_20220615T051746_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DS_OFFL_SIR_IOPM_2_202206151053711_202206151054216_0011       Backscatter Quality       for one or more records         Dcean Altimeter Range, SSHA, SWH       and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer         CS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer	CS_OFFL_SIR_IOPM_2_20220615T052023_20220615T053426_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records         CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_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 Flags have beer and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have beer and backscatter Qualit	CS_OFFL_SIR_IOPM_2_20220615T053711_20220615T054216_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20220615T055046_20220615T055154_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Altimeter Range and Backscatter Quality set for one or more records	CS_OFFL_SIR_IOPM_2_20220615T061022_20220615T061231_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS OFFI SID JORN 2 202205457061254 202205457054520 0001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20220615T061354_20220615T061620_C001	Altimeter Range and Backscatter Quality	set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T061623_20220615T061744_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_20220615T065727_20220615T071311_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_20220615T071705_20220615T072132_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_20220615T072154_20220615T072329_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_20220615T072833_20220615T075145_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_20220615T082752_20220615T085245_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_20220615T085527_20220615T090047_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_20220615T090053_20220615T090418_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_20220615T090749_20220615T093452_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_20220615T093618_20220615T093928_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_20220615T100312_20220615T100625_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_20220615T100627_20220615T101224_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_20220615T101226_20220615T103209_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_20220615T103514_20220615T104325_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_20220615T104746_20220615T112102_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_20220615T113409_20220615T113613_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_20220615T120456_20220615T121106_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_20220615T122705_20220615T124823_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_20220615T125110_20220615T130135_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_20220615T131216_20220615T131642_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_20220615T132155_20220615T132200_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_20220615T133233_20220615T133719_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_20220615T135540_20220615T135915_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_20220615T140625_20220615T141115_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_20220615T141124_20220615T144247_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_20220615T145537_20220615T152654_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_20220615T153628_20220615T153821_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_20220615T154114_20220615T154255_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_20220615T154551_20220615T155120_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_20220615T160032_20220615T160243_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_20220615T160723_20220615T161403_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_20220615T163023_20220615T163433_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_20220615T163614_20220615T164145_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH 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_20220615T164226_20220615T165127_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T165747_20220615T170854_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_20220615T171808_20220615T172230_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_20220615T172513_20220615T173118_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_20220615T173226_20220615T173912_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_20220615T174219_20220615T175537_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T182229_20220615T182455_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_20220615T183358_20220615T184930_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_20220615T185301_20220615T190141_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_20220615T190434_20220615T192633_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_20220615T195456_20220615T200350_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_20220615T200353_20220615T202843_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_20220615T203506_20220615T203937_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_20220615T204408_20220615T204801_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_20220615T204804_20220615T210818_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_20220615T214055_20220615T220715_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_20220615T221423_20220615T222015_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_20220615T222236_20220615T224406_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_20220615T224411_20220615T224708_C001 Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter 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 lity set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T225435_20220615T225608_C001 OCOG Altimeter Range Quality, OCO Backscatter Quality	G The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T225915_20220615T230025_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_20220615T231246_20220615T234626_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 lity set for one or more records
CS_OFFL_SIR_IOPM_2_20220615T235330_20220615T235846_C001 OCOG Altimeter Range Quality, OCO Backscatter Quality	G The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220615T035607_20220615T035746_C001 OCOG Altimeter Range Quality, OCO Backscatter Quality	G The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220615T050427_20220615T050815_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 lity set for one or more records
CS_OFFL_SIR_IOPN_2_20220615T072329_20220615T072641_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 lity set for one or more records
CS_OFFL_SIR_IOPN_2_20220615T095254_20220615T095308_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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220615T131642_20220615T131646_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_20220615T132201_20220615T132213_C001 OCOG Altimeter Range Quality, OCO Backscatter Quality	G The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T042645_20220615T042853_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 lity set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T065049_20220615T065129_C001 OCOG Altimeter Range Quality, OCO Backscatter Quality	G The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T112446_20220615T113107_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 lity set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T180151_20220615T180155_C001 OCOG Altimeter Range Quality, OCO Backscatter Quality	G The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T181042_20220615T181158_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 lity set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T202844_20220615T203054_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 lity set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T225203_20220615T225250_C001 OCOG Altimeter Range Quality, OCO Backscatter Quality	G The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz PLRM)

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

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

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

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Product	Test Failed	Description
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20220615T013134_20220615T013243_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
	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_20220615T040526_20220615T040714_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
	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_20220615T050427_20220615T050815_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_20220615T054356_20220615T055003_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_20220615T062106_20220615T062229_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_20220615T062539_20220615T062957_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_20220615T064630_20220615T064937_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_20220615T072329_20220615T072641_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_20220615T080431_20220615T080820_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_20220615T081813_20220615T081944_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_20220615T082408_20220615T082752_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_20220615T090418_20220615T090535_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_20220615T095254_20220615T095308_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_20220615T095543_20220615T095559_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_20220615T103350_20220615T103514_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_20220615T104325_20220615T104440_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_20220615T112311_20220615T112446_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_20220615T113642_20220615T113804_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_20220615T121329_20220615T121455_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_20220615T131145_20220615T131216_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_20220615T131642_20220615T131646_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_20220615T135313_20220615T135540_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_20220615T153353_20220615T153628_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_20220615T153821_20220615T154114_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_20220615T154255_20220615T154446_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_20220615T161422_20220615T161553_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_20220615T162901_20220615T163023_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_20220615T163433_20220615T163551_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_20220615T180325_20220615T180428_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_20220615T180831_20220615T181042_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_20220615T181158_20220615T181427_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_20220615T181623_20220615T181745_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_20220615T183106_20220615T183358_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_20220615T192820_20220615T193134_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_20220615T193227_20220615T193350_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_20220615T194744_20220615T195233_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_20220615T195342_20220615T195456_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_20220615T211215_20220615T211321_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_20220615T225719_20220615T225734_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_20220615T235017_20220615T235330_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_20220615T235846_20220615T235958_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_20220615T000146_20220615T000234_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_20220615T003731_20220615T004047_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_20220615T005042_20220615T005311_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_20220615T022930_20220615T023305_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_20220615T031159_20220615T031912_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_20220615T035116_20220615T035210_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_20220615T035533_20220615T035607_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_20220615T042645_20220615T042853_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_20220615T045114_20220615T045842_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_20220615T051747_20220615T051816_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_20220615T051818_20220615T052023_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_20220615T055154_20220615T055216_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_20220615T055219_20220615T055504_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20220615T062229_20220615T062446_C001	OCOG Backscatter Quality	more records
CS_OFFL_SIR_IOPR_2_20220615T062957_20220615T063654_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_20220615T063703_20220615T063717_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_20220615T065049_20220615T065129_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_20220615T080820_20220615T081700_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_20220615T090535_20220615T090749_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_20220615T094513_20220615T095254_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_20220615T095505_20220615T095543_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_20220615T095559_20220615T095715_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_20220615T112236_20220615T112311_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_20220615T112446_20220615T113107_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_20220615T113107_20220615T113409_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_20220615T121106_20220615T121329_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_20220615T122323_20220615T122705_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_20220615T130135_20220615T130249_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_20220615T134934_20220615T135313_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_20220615T144415_20220615T144904_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_20220615T152654_20220615T153353_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_20220615T154446_20220615T154551_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_20220615T162151_20220615T162747_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_20220615T165128_20220615T165341_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_20220615T175621_20220615T175657_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_20220615T180428_20220615T180518_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_20220615T180518_20220615T180831_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_20220615T181042_20220615T181158_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_20220615T184930_20220615T185119_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

Number of products with errors:	164		
given below.			
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM measurement record. The bit value of this flag indicates any problems when set. > Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected. The number of products with this error flag set is			
L2 Retracking Flags (20 Hz PLRM CryoSat I 2 data includes an ocean retracking		neasurement record. The hit value of this flag	n indicates any problems when set
Number of products with errors:	59	יש מוש שטע ושט, שמו נוווס וס נס של לאשכונלע. דו	in manager of produces with this error hag be to given below.
CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set. > Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.			
L2 Retracking Flags (20 Hz)	n quality flag for each 20 Hz moscur	ement record. The bit value of this flag indica	ates any problems when set
5.8 L2 Ocean Retracking Qual	ity Check		
Number of products with errors:	204		
> 1 Hz and 1 Hz Ocean SSHA Quality Flag	s: These flags are currently set for p	roducts over sea ice, which is to be expecte	d. The number of products with this error flag set is given below.
Currently, there are several common flags	·	hich are summarised below.	
L2 Quality Flags (1 Hz & 1 Hz PLI	RM)		
CS_OFFL_SIR_IOPR_2_20220615T234626	_20220615T235017_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
00_0.1 L_0.1_0.11_L_202200101201000	0001	OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH	more records
CS_OFFL_SIR_IOPR_2_20220615T231053	20220615T231130 C001	PLRM OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20220615T230154	_20220615T230949_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20220615T230025	_20220615T230106_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_20220615T225608	_20220615T225719_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_20220615T225203	_20220615T225250_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_20220615T222141	_20220615T222236_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_20220615T220715	_20220615T221028_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_20220615T212246	_20220615T212811_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_20220615T211833	_20220615T211953_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_20220615T202844	_20220615T203054_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_20220615T194048	_20220615T194744_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_20220615T194012	_20220615T194047_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

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

### 6.1 P2P Product Format Check

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

Number of products with errors:

### 6.2 P2P Product Header Analysis

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

Number of products with errors:

### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

0

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 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.

29

> 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_2_20220614T235510_20220615T004446_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_20220615T004446_20220615T013424_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_20220615T022400_20220615T031338_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_20220615T031338_20220615T040314_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_20220615T040314_20220615T045252_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_20220615T045252_20220615T054229_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_20220615T054229_20220615T063206_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_20220615T063206_20220615T072143_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_20220615T072143_20220615T081121_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_20220615T081121_20220615T090057_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_20220615T090057_20220615T095035_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_20220615T095035_20220615T104011_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_20220615T104011_20220615T112949_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_20220615T112949_20220615T121926_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_20220615T121926_20220615T130903_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_20220615T130903_20220615T135840_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_20220615T135840_20220615T144817_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_20220615T144817_20220615T153754_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_20220615T153754_20220615T162732_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_20220615T162732_20220615T171708_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20220615T171708_20220615T180646_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_20220615T180646_20220615T185622_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_20220615T185622_20220615T194600_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_20220615T194600_20220615T203537_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_20220615T203537_20220615T212514_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_20220615T212514_20220615T221451_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_20220615T221451_20220615T230429_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_20220615T230429_20220615T235405_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)
CS_OFFL_SIR_IOP_2_20220615T235405_20220616T004343_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

## 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.

0

Number of products with errors:

6.6 P2P Measurement Quality	/ Flag Check
P2P Quality Flags (20 Hz)	
CryoSat P2P data includes Quality Flags for	r each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.
Since the P2P Quality Flags are copied d below.	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
Number of products with errors:	30
P2P Quality Flags (20 Hz PLRM)	
Since the P2P Quality Flags are copied of below.	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
Number of products with errors:	29
P2P Quality Flags (1 Hz & 1 Hz F	PLRM)
Since the P2P Quality Flags are copied d below.	directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given
Number of products with errors:	30
6.8 P2P Ocean Retracking Qu	uality Check
P2P Retracking Flags (20 Hz)	
Cryosat P2P data includes an ocean retract	king quality flag (field 19) for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
> Ocean Retracking Quality Flag (PLRM)	: This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.
Number of products with errors:	27
P2P Retracking Flags PLRM	
CryoSat L2 data includes an ocean retracking	ng 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.

30