

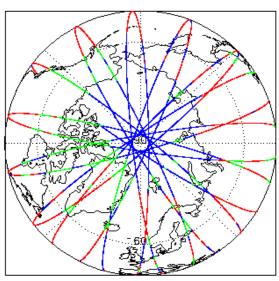
## 1. Overview

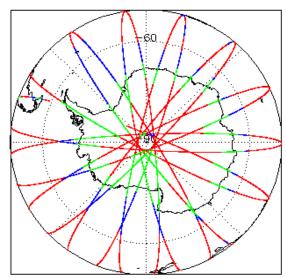
Report Production:	25-May-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

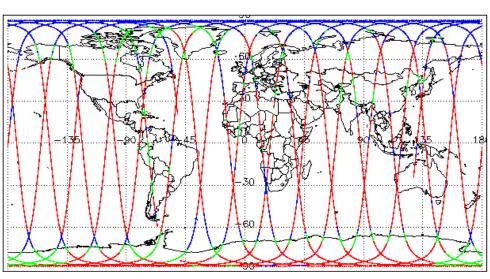
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.2	See Section 7.2

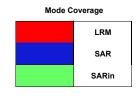
Mission / Ins	trument News
21-May-202	1 None
22-May-202	1 None
23-May-202	1 Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

## 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

## 4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

#### 4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210522T034609_20210522T035042_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20210522T150032_20210522T150403_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210522T134421_20210522T134725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210522T135253_20210522T135838_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210522T181628_20210522T181740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210522T234150_20210522T235332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210522T001530_20210522T001746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210522T051921_20210522T051946_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210522T070951_20210522T071149_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210522T123607_20210522T124144_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210522T133512_20210522T133720_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T015628_20210522T020233_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T043209_20210522T043420_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T055926_20210522T060026_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T082924_20210522T083643_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T133721_20210522T133824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T150710_20210522T151425_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T200645_20210522T201931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T232659_20210522T233239_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210522T235332_20210522T235535_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. IOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

## 5.4 L2 Auxiliary Correction Error Check

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

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.

COLOFFLER JOHN 2 20210027150144 (2021 10041 1004 1004 1004 1004 1004 1004	Product	Test Failed	Description
Topography (1)  Col. CIPPL SIRI (DMN 2_20210222112212 20210022112220 CD11  Mean Dynamic Topography (1)  Col. CIPPL SIRI (DMN 2_20210222112212 20210022112220 CD11  Mean Dynamic Topography (1)  Col. CIPPL SIRI (DMN 2_2021022102020202112220 CD11  Mean See Surface (1), Mean Dynamic Topography (1)  Mean See Surface (1), Mean Dynamic Topography (1)  Col. CIPPL SIRI (DMN 2_20210221020202020202020202020202020202	CS_OFFL_SIR_IOPM_2_20210522T034339_20210522T034446_C001		,
So. OFFL., SRI, IDMN 2, 20118027181212, 20110027181218, COOL  Mem Norman (pegraphy II)  Mem Soe Burthor (F), Mean Dynamic Tegography Individual on an or man recommend.  Mem Soe Burthor (F), Mean Dynamic Tegography Individual Indivi	CS_OFFL_SIR_IOPM_2_20210522T150545_20210522T150645_C001		
See Description of the See Description of Transpersity (Inc.). Mean Dynamic Transpersity (Inc.) Mean Dynamic Transpersity (	CS_OFFL_SIR_IOPM_2_20210522T181628_20210522T181740_C001	Mean Dynamic Topography (1)	
Todosparty (1)  CS_OFFL_SIR_OPN_2_7071650710515_70710507_C001  CS_OFFL_SIR_OPN_2_2001650710515_20210527153515_C001  Mean Dynamic Todosparty (1)  Mean Dynamic Tod	CS_OFFL_SIR_IOPM_2_20210522T182112_20210522T182238_C001	Mean Dynamic Topography (1)	
Topography (1)  Mean Dynamic Topography (2)  Mean Dynamic Topography (2)  Mean Dynamic Topography (3)  There is an error with the Mean Dynamic Topography height for one or shower the mean than than the mean than than than than than than than th	CS_OFFL_SIR_IOPN_2_20210522T001530_20210522T001746_C001		
CS_OFFL_SIR_IOPN_2_20210522T03515_02210522T03450_C001  Mean Dynamic Topography (1) These is an enror with the Miss height (eductor 1), the Mean Dynamic Topography (2) There is an enror with the Miss height (eductor 1), the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1), the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1), the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1), the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1), the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (3) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dynamic Topography (4) There is an enror with the Miss height (eductor 1) and the Mean Dyn	CS_OFFL_SIR_IOPN_2_20210522T015115_20210522T015627_C001		
Mean Surface (1), Mean Dynamic Topography (1)  So. OFFL_SIR_JOPN _2_02105227074004_0210527074129_C001  Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1)  So. OFFL_SIR_JOPN _2_02105227074004_0210527074129_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  So. OFFL_SIR_JOPN _2_02105227074004_0210527074129_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  So. OFFL_SIR_JOPN _2_02105227076189_02105270762247_C001  Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  So. OFFL_SIR_JOPN _2_02105227076189_02105227062249_C001  So. OFFL_SIR_JOPN _2_02105227107124_02205227102208_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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynami	CS_OFFL_SIR_IOPN_2_20210522T024100_20210522T024351_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20210522T074004_20210522T074129_C0001  Mean Dynamic Topography (1) Their is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dyna	CS_OFFL_SIR_IOPN_2_20210522T025015_20210522T025315_C001	, , , , ,	
Nean Sea Surface (1), Mean Dynamic Topography (1)  So OFFL_SIR_JOPN 2_20210522T074947_20210522T022926_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  So OFFL_SIR_JOPN 2_20210522T092949_20210522T022926_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Dynamic	CS_OFFL_SIR_IOPN_2_20210522T033108_20210522T033450_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
Topography (1)  CS_OFFL_SIR_JOPN_2_20210522T09498_20210522T092247_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  CS_OFFL_SIR_JOPN_2_20210522T02142_20210522T0209_C001  Mean Dynamic Topography (1)  There is an error with the MSS 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 (1)  There is an error with the MSS 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)  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)  MSS_OFFL_SIR_JOPN_2_20210522T115538_20210522T115657_C001  CS_OFFL_SIR_JOPN_2_20210522T115538_20210522T115657_C001  MSS_OFFL_SIR_JOPN_2_20210522T115538_20210522T115657_C001  MSS_OFFL_SIR_JOPN_2_20210522T13807_20210522T124144_C001  MSS_OFFL_SIR_JOPN_2_20210522T133014_20210522T133100_C001  MSS_OFFL_SIR_JOPN_2_20210522T133014_20210522T133700_C001  MSS_OFFL_SIR_JOPN_2_20210522T135012_20210522T137700_C001  MSS_OFFL_SIR_JOPN_2_20210522T14752_20210522T141929_C001  MSS_OFFL_SIR_JOPN_2_20210522T14752_20210522T141929_C001  MSS_OFFL_SIR_JOPN_2_20210522T14752_20210522T151910_C001  MSS_OFFL_SIR_JOPN_2_20210522T16552_20210522T151910_C001  MSS_OFFL_SIR_JOPN_2_20210522T16552_20210522T165034_C001  MSS_OFFL_SIR_JOPN_2_20210522T16553_20210522T165034_C001  MSS_OF	CS_OFFL_SIR_IOPN_2_20210522T074004_20210522T074129_C001	Mean Dynamic Topography (1)	
Topography (1)  CS_OFFL_SIR_IOPN_2_20210522T102124_20210522T102026_C001  Mean Spass Surface (1), Mean Dynamic Topography (1)  Mean Spass S	CS_OFFL_SIR_IOPN_2_20210522T074647_20210522T074953_C001		
Topography (1)  CS_OFFL_SIR_IOPN_2_20210522T102124_20210522T10204_C001  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Topography (1)  Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Topography (1)  Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Topography (1)  Topography (2)  There is an error with the MSS height (solution 1)  There	CS_OFFL_SIR_IOPN_2_20210522T091949_20210522T092247_C001		
Mean Sea Surface (1), Mean Dynamic Topography (1)  CS_OFFL_SIR_IOPN_2_20210522T115538_20210522T11557_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)  CS_OFFL_SIR_IOPN_2_20210522T115538_20210522T11557_C001  Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)  CS_OFFL_SIR_IOPN_2_20210522T123607_20210522T124144_C001  Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1)  CS_OFFL_SIR_IOPN_2_20210522T133014_20210522T133100_C001  Mean Dynamic Topography (1)  CS_OFFL_SIR_IOPN_2_20210522T133512_20210522T133700_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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS 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)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1)  There	CS_OFFL_SIR_IOPN_2_20210522T092549_20210522T092926_C001		
Topography (1)  Topography (2)  Mean Dynamic Topography (2)  Topography (1)  Topography (2)  Topography (3)  Topography (2)  Topography (3)  Topography (2)  Topography (3)  Topography (3)  Topography (4)  Topography (4)  Topography (4)  Topography (5)  Topography (6)  Topography (7)  Topography (8)  Topography (8)  Topography (8)  Topography (8)  Topography (7)  Topography (7)  Topography (8)  T	CS_OFFL_SIR_IOPN_2_20210522T102124_20210522T102208_C001	Mean Dynamic Topography (1)	
Topography (1) Total Geocentric Ocean Topography (201406 1), the Total Geocentric Ocean Tide (6OT)  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Dynamic Topography Neight (solution 1) and the Mean Dynamic Topography Neight (solution 1)	CS_OFFL_SIR_IOPN_2_20210522T110027_20210522T110301_C001		Topography height (solution 1)
Topography (1)  Topography (1)  Topography (1)  Topography height (solution 1)  Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1) and the 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)  There is an error with the 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)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20210522T115538_20210522T115657_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS_OFFL_SIR_IOPN_2_20210522T133512_20210522T133720_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPN_2_20210522T141752_20210522T141929_C001  Mean Dynamic Topography (1)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the Mean Dynamic Topography height for one or more records  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  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)  There is an error with the MsS 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)  There is an error with the MsS height (solution 1) and the Mean Dynamic Topography height (solution 1)  Topography (1)  There is an error with the MsS height (solution 1) and the Mean Dynamic Topography height (solution 1)  Topography height (solution 1)  There is an error with the MsS height (solution 1) and the Mean Dynamic Topography height (solution 1)  Topography height (solution 1)  There is an error with the MsS height (solution 1) and the Mean Dynamic Topography height (solution 1)  Topography height (solution 1)  There is an error with the MsS height (solution 1) and the Mean Dynamic Topography height (solution 1)  Topography height (solution 1)  There is an error with the MsS 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)  To	CS_OFFL_SIR_IOPN_2_20210522T123607_20210522T124144_C001		
Topography (1)  CS_OFFL_SIR_IOPN_2_20210522T141752_20210522T141929_C001  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS 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). There	CS_OFFL_SIR_IOPN_2_20210522T133014_20210522T133100_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20210522T151425_20210522T151910_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)  There is an error with the Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1)  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)  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)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  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)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  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)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topo	CS_OFFL_SIR_IOPN_2_20210522T133512_20210522T133720_C001		
Topography (1)  Topography height (solution 1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)  Topography (1)  Topography (1)  There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the 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 height (solution 1)  There is an error with the MSS 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)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Topography (1), Total Geocentric Ocean Topography (1), Total Geocentric Ocean Topography (1), the Total Geocentric Topography (1), the Total Geocentric Topography (1), Total Geocentric Topography (1), There is an error with the MSS height (solution 1), the Topography (1) the Total Geocentric Topography (2) the Topography (1) and the Mean Dynamic Topography (1) and the Mean Dynamic Topography (2) the Topography (3) the Topography (4) and Topography (4) the Total Geocentric Topography (4) and Topography (5) the Total Geocentric Topography (6) the Topo	CS_OFFL_SIR_IOPN_2_20210522T141752_20210522T141929_C001	Mean Dynamic Topography (1)	, , , , ,
CS_OFFL_SIR_IOPN_2_20210522T182736_20210522T182833_C001  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  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_IOPN_2_20210522T192521_20210522T192632_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the Mean Dynamic Topography height for one or more records  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  CS_OFFL_SIR_IOPN_2_20210522T205423_20210522T205842_C001  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  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). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1). There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1). There is an error with the Mean Dynamic Topography height for one or more records  CS_OFFL_SIR_IOPN_2_20210522T214356_20210522T214803_C001  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records  There is an error with the Mean Dynamic Topography height for one or more records	CS_OFFL_SIR_IOPN_2_20210522T151425_20210522T151910_C001		
Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS height (solution 1)  There is an error with the MSS 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)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)  There is an error with the MSS 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)  There is an error with the MSS 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 (1)  There is an error with the MSS 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)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the Mean Dynamic Topography (1) and the Mean Dynamic Topography (2).	CS_OFFL_SIR_IOPN_2_20210522T160610_20210522T160834_C001	Mean Dynamic Topography (1)	
Topography (1)  Topography height (solution 1)  There is an error with the Mean Dynamic Topography height for one or more records  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)  There is an error with the MSS 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)  There is an error with the MSS 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)  There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)  There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records  There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1).	CS_OFFL_SIR_IOPN_2_20210522T182736_20210522T182833_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20210522T205423_20210522T205842_C001  Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  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)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)  CS_OFFL_SIR_IOPN_2_20210522T214356_20210522T214803_C001  Mean Sea Surface (1), Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records  There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records  There is an error with the Mean Dynamic Topography height for one or more records	CS_OFFL_SIR_IOPN_2_20210522T191652_20210522T192005_C001		
Topography (1)  Topography (20210522T205423_20210522T210545_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)  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)  There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records  There is an error with the Mean Dynamic Topography (1)  There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the MSS height (solution 1). There is an error with the Mean Dynamic Topography (solution 1). There is an error with the Mean Dynamic Topography (1).	CS_OFFL_SIR_IOPN_2_20210522T192521_20210522T192632_C001	Mean Dynamic Topography (1)	
Topography (1)  Mean Sea Surface (1), Mean Dynamic Topography (2)  Topography height (solution 1)  Topography height (solution 1)  There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)  Topography (2)  Topography (solution 1)  There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records  There is an error with the Mean Dynamic Topography height for one or	CS_OFFL_SIR_IOPN_2_20210522T205423_20210522T205842_C001		
CS_OFFL_SIR_IOPN_2_20210522T214356_20210522T214803_C001  Topography (1), Total Geocentric Ocean Tide (solution 1: GOT) for one or more records  Topography (2) 20210522T214356_20210522T214803_C001  Topography (1), Total Geocentric Ocean Tide (solution 1: GOT) for one or more records  There is an error with the Mean Dynamic Topography (1)	CS_OFFL_SIR_IOPN_2_20210522T210423_20210522T210545_C001	Topography (1)	Topography height (solution 1)
	CS_OFFL_SIR_IOPN_2_20210522T214356_20210522T214803_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
more records	CS_OFFL_SIR_IOPN_2_20210522T224202_20210522T224349_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

CS_OFFL_SIR_IOPN_2_20210522T232607_20210522T232659_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_20210522T001747_20210522T002434_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_20210522T015628_20210522T020233_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_20210522T033451_20210522T034339_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_20210522T051144_20210522T051921_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_20210522T065115_20210522T065742_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_20210522T065742_20210522T070042_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_20210522T082924_20210522T083643_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_20210522T083643_20210522T083823_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_20210522T101056_20210522T101540_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_20210522T101540_20210522T101701_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_20210522T114859_20210522T115423_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_20210522T115423_20210522T115537_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_20210522T133101_20210522T133145_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_20210522T133145_20210522T133511_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_20210522T150710_20210522T151425_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_20210522T164921_20210522T165456_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_20210522T181741_20210522T181918_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210522T182833_20210522T183623_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_20210522T200645_20210522T201931_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_20210522T214803_20210522T215504_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_20210522T232659_20210522T233239_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210522T034609_20210522T035042_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20210522T150032_20210522T150403_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20Hz)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210521T235527_20210522T000823_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.
		The Ocean Altimeter Range, SSHA, SWH 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_20210522T003449_20210522T004515_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_20210522T004654_20210522T010106_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_20210522T010342_20210522T010846_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_20210522T010853_20210522T010904_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_20210522T010910_20210522T011025_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_20210522T011718_20210522T011816_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_20210522T012615_20210522T012910_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_20210522T013655_20210522T013906_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_20210522T014029_20210522T014729_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_20210522T020947_20210522T021044_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_20210522T021744_20210522T022128_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_20210522T022251_20210522T023950_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_20210522T024351_20210522T024803_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_20210522T025441_20210522T032903_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_20210522T035456_20210522T041949_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_20210522T042154_20210522T042718_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_20210522T043421_20210522T050628_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_20210522T052953_20210522T055207_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_20210522T055340_20210522T055926_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_20210522T060151_20210522T060958_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_20210522T061337_20210522T064725_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_20210522T073047_20210522T073820_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_20210522T074129_20210522T074647_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_20210522T075327_20210522T081500_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_20210522T081746_20210522T082701_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_20210522T083857_20210522T084321_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_20210522T085910_20210522T090352_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_20210522T090540_20210522T091649_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_20210522T092247_20210522T092548_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_20210522T093245_20210522T095907_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_20210522T100047_20210522T100550_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_20210522T102209_20210522T102902_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_20210522T102916_20210522T105326_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_20210522T110301_20210522T110455_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_20210522T110726_20210522T110941_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_20210522T111157_20210522T111646_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_20210522T111739_20210522T112807_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_20210522T112925_20210522T113902_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_20210522T120226_20210522T121702_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_20210522T122421_20210522T123606_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_20210522T124144_20210522T124413_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_20210522T124438_20210522T124903_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_20210522T125132_20210522T130549_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_20210522T130729_20210522T131410_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_20210522T132207_20210522T132244_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_20210522T134420_20210522T134725_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_20210522T134742_20210522T135130_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_20210522T135253_20210522T135838_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_20210522T135910_20210522T141629_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_20210522T141929_20210522T142818_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_20210522T143049_20210522T145250_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_20210522T153151_20210522T155520_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.

Seg. CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_20210927191018_C001  CR_CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_C001  CR_CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_2021092719018_C001  CR_CFF_SIR_IOFM_2_20210927119018_20210927190018_C001  CR_CFF_SIR_IOFM_2_20210927119018_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927120018_C001097101116_C001  CR_CFF_SIR_IOFM_2_20210927			
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and Backszeiter Quality Flags have Allineder Range and Backszeiter Quality Flags have and the COCOA Allineder Range and Backszeiter Quality Flags have and the COCOA Allineder Range and Backszeiter Quality Flags have and the COCOA Allineder Range and Backszeiter Quality Flags have and the COCOA Allineder Range and Backszeiter Quality Flags have and the COCOA Allineder Range and Backszeiter Quality Flags have and the COCOA Allineder Range and Backszeiter Quality Flags have and the COCOA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have and the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to the CocoA Allineder Range and Backszeiter Quality Flags have been contained to		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.
and Deutscatter Quality Fleigh have Affined Rongs and Backcatter Quality Fleigh have Affined Rongs and Backcatter Quality Fleigh have Let Co. OFFL SIR JOPM 2. 202105221174099. 202105221190820. COID Subscatter Quality Fleigh have Let Color Affined Rongs SIMA. SWH and Backcatter Quality Fleigh have Let Color Affined Rongs SIMA. SWH and Backcatter Quality Fleigh have Let Color Affined Rongs and Backcatter Quality Fleigh have Let Color Affined Rongs and Backcatter Quality Fleigh have Backcatter Quality Fleigh have Affined Rongs and Backcatter Quality Fleigh have Backcatter Rongs Rongs Affined Rongs and Backcatter Quality Fleigh have Backcatter Rongs Rong	CS_OFFL_SIR_IOPM_2_20210522T170328_20210522T170606_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.
Backscatter Quality    CS_OFFL_SIR_JOPM_2_202105227174831_20210522718050_CO01  CS_OFFL_SIR_JOPM_2_20210522718245_202105227181449_CO01  All moder Range and Backscatter Quality, COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backscatter Quality Flags have been controlled and the COOG All moder Range and Backs		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_JOPM_2_20210522T181281_2021052T181449_C001  CS_OFFL_SIR_JOPM_2_20210522T181282_2021052T181449_C001  CS_OFFL_SIR_JOPM_2_20210522T181282_2021052T181449_C001  CS_OFFL_SIR_JOPM_2_20210522T181282_2021052T18149_C001  CS_OFFL_SIR_JOPM_2_2021052T181282_2021052T18149_C001  CS_OFFL_SIR_JOPM_2_2021052T181282_2021052T18149_C001  CS_OFFL_SIR_JOPM_2_2021052T18282_2021052T19331_C001  CS_OFFL_SIR_JOPM_2_2021052T18282_2021052T19331_C001  CS_OFFL_SIR_JOPM_2_2021052T18282_2021052T19232_C001  CS_OFFL_SIR_JOPM_2_2021052T192882_2021052T19232_C001  CS_OFFL_SIR_JOPM_2_2021052T192882_2021052T19232_C001  CS_OFFL_SIR_JOPM_2_2021052T192882_2021052T19232_C001  CS_OFFL_SIR_JOPM_2_2021052T192882_2021052T19232_C001  CS_OFFL_SIR_JOPM_2_2021052T192882_2021052T19232_C001  CS_OFFL_SIR_JOPM_2_2021052T192882_2021052T19231_C001  CS_OFFL_SIR_JOPM_2_2021052T192882_2021052T19231_C001  CS_OFFL_SIR_JOPM_2_2021052T193305_2021052T103517_C001  CS_OFFL_SIR_JOPM_2_2021052T20383_2021052T210361_C001  CS_OFFL_SIR_JOPM_2_2021052T20383_2021052T2103512_C001  CS_OFFL_SIR_JOPM_2_2021052T20383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T20383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T20383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T20383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T20383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210383_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T2103612_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T210363_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T210363_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T210363_C001  CS_OFFL_SIR_JOPM_2_2021052T210363_2021052T210363_C001  CS_OFFL_SIR_JOP			The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have and Backscatter Quality, COCG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have and Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have and Backscatter Quality, COCG Allimeter Range and Backscatter Quality, COCG Allimeter Range and Backscatter Quality Flags have Allimeter Range and Backscatter Quality Allimeter Range a	CS_OFFL_SIR_IOPM_2_20210522T174831_20210522T180520_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.
and Backscatter Quality COCG Altimeter Range and Backscatter Quality ES_OFFL_SIR_IOPM_2_20210522T183924_20210522T191316_C001  CS_OFFL_SIR_IOPM_2_2021052T183924_2021052T191316_C001  CS_OFFL_SIR_IOPM_2_2021052T183924_2021052T192521_C001  CS_OFFL_SIR_IOPM_2_2021052T192005_2021052T193004_C001  CS_OFFL_SIR_IOPM_2_2021052T192005_2021052T193004_C001  CS_OFFL_SIR_IOPM_2_2021052T19205_2021052T193004_C001  CS_OFFL_SIR_IOPM_2_2021052T192015_2021052T193004_C001  CS_OFFL_SIR_IOPM_2_2021052T192015_2021052T193004_C001  CS_OFFL_SIR_IOPM_2_2021052T192015_2021052T193004_C001  CS_OFFL_SIR_IOPM_2_2021052T10205_2021052T193004_C001  CS_OFFL_SIR_IOPM_2_2021052T10205_2021052T103005_C001  CS_OFFL_SIR_IOPM_2_2021052T103005_2021052T103005_C001  CS_OFFL_SIR_IOPM_2_2021052T103005_2021052T103005_C001  CS_OFFL_SIR_IOPM_2_2021052T103005_2021052T100645_C001  CS_OFFL_SIR_IOPM_2_2021052T103005_2021052T100645_C001  CS_OFFL_SIR_IOPM_2_2021052T103005_2021052T100645_C001  CS_OFFL_SIR_IOPM_2_2021052T103005_2021052T100645_C001  CS_OFFL_SIR_IOPM_2_2021052T103005_2021052T100645_C001  CS_OFFL_SIR_IOPM_2_2021052T10007_C001  CS_OFFL_SIR_IOPM_2_2021052T100052T10007_C001  CS_OFFL_SIR_IOPM_2_2021052T10052T100052T10007_C001  CS_OFFL_SIR_IOPM_2_2021052T10052T100052T10007_C001  CS_OFFL_SIR_IOPM_2_2021052T100052T100052T100052T10007_C001  CS_OFFL_SIR_IOPM_2_2021052T1200545_201052T110007_C001  CS_OFFL_SIR_IOPM_2_2021052T1200545_201052T110007_C001  CS_OFFL_SIR_IOPM_2_2021052T1200545_201052T110007_C001  CS_OFFL_SIR_IOPM_2_2021052T1200545_201052T110007_C001  CS_OFFL_SIR_IOPM_2_2021052T1200545_201052T110007_C001  CS_OFFL_SIR_IOPM_2_2021052T1200545_201052T110007_C001  CS_OFFL_SIR_IOPM_2_2021052T1200545_201052T110007_C001  CS_OFFL_SIR_IOPM_2_2021052T121004_201052T1210007_C001  CS_OFFL_SIR_IOPM_2_2021052T121004_201052T1210007_C001  CS_OFFL_SIR_IOPM_2_2021052T121004_201052T1210007_C001  CS_OFFL_SIR_IOPM_2_2021052T121004_201052T1210007_C001  CS_OFFL_SIR_IOPM_2_2021052T121004_201052T1210007_C001  CS_OFFL_SIR_IOPM_2_2021052T121004_201052T1210007_C001  CS_OFFL_SIR_IOPM_2_20210		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.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have Altimeter Range and Backscatter Quality Section one or more records.  CS_OFFL_SIR_IOPM_2_20210522T192005_20210522T192521_C001  CS_OFFL_SIR_IOPM_2_20210522T192012_2010522T192004_C001  CS_OFFL_SIR_IOPM_2_20210522T192012_2010522T193004_C001  CS_OFFL_SIR_IOPM_2_20210522T192012_2010522T193004_C001  CS_OFFL_SIR_IOPM_2_20210522T192012_2010522T193004_C001  CS_OFFL_SIR_IOPM_2_20210522T193005_20210522T193517_C001  CS_OFFL_SIR_IOPM_2_20210522T193005_20210522T193517_C001  CS_OFFL_SIR_IOPM_2_20210522T200243_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200243_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200243_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T20007_C001  CS_OFFL_SIR_IOPM_2_20210522T200368_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210044_20210522T21007_C001  CS_OFFL_SIR_IOPM_2_20210522T210044_20210522T21007_C001  CS_OFFL_SIR_IOPM_2_20210522T210044_20210522T21007_C001  CS_OFFL_SIR_IOPM_2_20210522T210044_20210522T21007_C001  CS_OFFL_SIR_IOPM_2_20210522T210044_20210522T21007_C001  CS_OFFL_SIR_IOPM_2_20210522T210044_20210522T21007_C001  CS_OFFL_SIR_IOPM_2_20210522T210044_20210522T210335_C001  CS_OFFL_SIR_IOPM_2_20210522T210045_20210522T210335_C001  CS_OFFL_SIR_IOPM_2_20210522T210045_20210522T210335_C001  CS_OFFL_SIR_IOPM_2_20210522T21030_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T21030_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T21030_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T	CS_OFFL_SIR_IOPM_2_20210522T181628_20210522T181740_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.
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20210522T192812_20210522T193004_C001  CS_OFFL_SIR_IOPM_2_20210522T192812_20210522T193004_C001  CS_OFFL_SIR_IOPM_2_20210522T193205_20210522T193004_C001  CS_OFFL_SIR_IOPM_2_20210522T193205_20210522T193517_C001  CS_OFFL_SIR_IOPM_2_20210522T193205_20210522T200845_C001  CS_OFFL_SIR_IOPM_2_20210522T20043_20210522T200845_C001  CS_OFFL_SIR_IOPM_2_20210522T20043_20210522T200845_C001  CS_OFFL_SIR_IOPM_2_20210522T200843_20210522T200845_C001  CS_OFFL_SIR_IOPM_2_20210522T200843_20210522T200825_C001  CS_OFFL_SIR_IOPM_2_20210522T200843_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T200843_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  CCS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  CCS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  CCS_OFFL_SIR_IOPM_2_20210522T210745_20210522T210423_C001  CCS_OFFL_SIR_IOPM_2_20210522T210745_20210522T210423_C001  CCS_OFFL_SIR_IOPM_2_20210522T211931_C001  CCS_OFFL_SIR_IOPM_2_20210522T211931_C001  CCS_OFFL_SIR_IOPM_2_20210522T211931_C001  CCS_OFFL_SIR_IOPM_2_20210522T211931_C001  CCS_OFFL_SIR_IOPM_2_20210522T211931_C001  CCS_OFFL_SIR_IOPM_2_20210522T2121930_20210522T212335_C001  CCS_OFFL_SIR_IOPM_2_20210522T211930_20210522T212335_C001  CCS_OFFL_SIR_IOPM_2_20210522T211930_20210522T212335_C001  CCS_OFFL_SIR_IOPM_2_20210522T211930_20210522T212335_C001  CCS_OFFL_SIR_IOPM_2_20210522T211930_20210522T213353_C001  CCS_OFFL_SIR_IOPM_2_20210522T211335_C001  CCS_OFFL_SIR_IOPM_2_20210522T212300_20210522T213353_C00	CS_OFFL_SIR_IOPM_2_20210522T183924_20210522T191316_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.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH	CS_OFFL_SIR_IOPM_2_20210522T192005_20210522T192521_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have Altimeter Range and Backscatter Quality Flags have Altimeter Range and Backscatter Quality Set for one or more records.  CS_OFFL_SIR_IOPM_2_20210522T200243_20210522T200645_C001  CS_OFFL_SIR_IOPM_2_20210522T200243_20210522T20812_C001  CS_OFFL_SIR_IOPM_2_20210522T20931_20210522T202812_C001  CS_OFFL_SIR_IOPM_2_20210522T203058_20210522T205252_C001  CS_OFFL_SIR_IOPM_2_20210522T203058_20210522T205225_C001  CS_OFFL_SIR_IOPM_2_20210522T205843_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210237_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T21037_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T21037_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T21037_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T21037_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T21037_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T210520020210522T213353_C001  Altimeter Range and Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Quality CCGA Altimeter Range and Backscatter Quality And Backscatter Qual	CS_OFFL_SIR_IOPM_2_20210522T192812_20210522T193004_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.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have Altimeter Range and Backscatter Quality Flags have Decreased For one or more records.  Ocean Altimeter Range and Backscatter Quality and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210522T201931_20210522T202812_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210522T203058_20210522T205225_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210522T203058_20210522T205225_C001  OCOG Altimeter Range and Backscatter Quality and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Backscatter Quality CS_OFFL_SIR_IOPM_2_20210522T205843_20210522T210007_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have bee for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210522T2119_20210522T212837_C001  OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210522T21230_20210522T213353_C001  OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20210522T21230_20210522T213353_C001  OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or	CS_OFFL_SIR_IOPM_2_20210522T193205_20210522T193517_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.
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.  CS_OFFL_SIR_IOPM_2_20210522T203058_20210522T205225_C001  CS_OFFL_SIR_IOPM_2_20210522T203058_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T205843_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T2110423_C001  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_C001  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_C001  CS_OFFL_SIR_IOPM_2_20210522T21199_20210522T211335_C001  CS_OFFL_SIR_IOPM_2_20210522T212199_20210522T212837_C001  CS_OFFL_SIR_IOPM_2_20210522T212190_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214430_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214330_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214330_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214330_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214330_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214330_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214330_20210522T213353_C001  CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPM_2_20210522T200243_20210522T200645_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.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.  CS_OFFL_SIR_IOPM_2_20210522T205843_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210007_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T210423_C001  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_C001  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_C001  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_C001  CS_OFFL_SIR_IOPM_2_20210522T2119_20210522T212837_C001  CS_OFFL_SIR_IOPM_2_20210522T21219_20210522T212837_C001  CS_OFFL_SIR_IOPM_2_20210522T2121930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214305_20210522T214321_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.
Backscatter Quality  CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001  DCGG Altimeter Range Quality, OCOG Backscatter Quality  CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T210423_C001  DCGG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  DCGG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  DCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.		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.
Backscatter Quality  Cs_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_C001  Backscatter Quality  Cs_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_C001  Cs_OFFL_SIR_IOPM_2_20210522T212119_20210522T212837_C001  Cs_OFFL_SIR_IOPM_2_20210522T212119_20210522T212837_C001  Cs_OFFL_SIR_IOPM_2_20210522T21219_20210522T212353_C001  Cs_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  Cs_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  Cs_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  Backscatter Quality  for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.	CS_OFFL_SIR_IOPM_2_20210522T205843_20210522T210007_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have  CS_OFFL_SIR_IOPM_2_20210522T212119_20210522T212837_C001  CS_OFFL_SIR_IOPM_2_20210522T212119_20210522T212837_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  CS_OFFL_SIR_IOPM_2_20210522T214305_20210522T214321_C001  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 Backscatter Quality Flags have set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records.	CS_OFFL_SIR_IOPM_2_20210522T210014_20210522T210423_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20210522T212119_20210522T212837_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have  SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have  Altimeter Range, SSHA, SWH and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20210522T210745_20210522T211931_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.
CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have Altimeter Range, SSHA, SWH CS_OFFL_SIR_IOPM_2_20210522T214305_20210522T214321_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have		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_IOPM_2_20210522T214305_20210522T214321_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_IOPM_2_20210522T212930_20210522T213353_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.
		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_IOPM_2_20210522T215935_20210522T223138_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.
CS_OFFL_SIR_IOPM_2_20210522T223341_20210522T223907_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_IOPM_2_20210522T223341_20210522T223907_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_IOPM_2_20210522T225010_20210522T230240_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.
		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_IOPM_2_20210522T232146_20210522T232340_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_IOPM_2_20210522T232146_20210522T232340_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20210522T232359_20210522T232606_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_20210522T234150_20210522T235332_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_20210522T235535_20210523T001039_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_20210522T024804_20210522T024809_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210522T024819_20210522T024824_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210522T033108_20210522T033450_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210522T070316_20210522T070438_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210522T084833_20210522T084840_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210522T182531_20210522T182558_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_20210522T195942_20210522T195957_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210522T214217_20210522T214305_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T001212_20210522T001529_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T025359_20210522T025441_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T101540_20210522T101701_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T113903_20210522T114045_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T114859_20210522T115423_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T134055_20210522T134137_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T150710_20210522T151425_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T215646_20210522T215934_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20210522T224350_20210522T225009_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (20Hz PLRM)

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20210522T001530_20210522T001746_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_20210522T012308_20210522T012527_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_20210522T012911_20210522T013440_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_20210522T014741_20210522T014903_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality PLRM	set for one or more records.
CS_OFFL_SIR_IOPN_2_20210522T015115_20210522T015627_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_20210522T021243_20210522T021549_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_20210522T024100_20210522T024351_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_20210522T033108_20210522T033450_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_20210522T034447_20210522T034609_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_20210522T035325_20210522T035455_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_20210522T042040_20210522T042154_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_20210522T050629_20210522T051143_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_20210522T060027_20210522T060150_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_20210522T064726_20210522T064856_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_20210522T070316_20210522T070438_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_20210522T074004_20210522T074129_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_20210522T091949_20210522T092247_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_20210522T092549_20210522T092926_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_20210522T101806_20210522T101930_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_20210522T102124_20210522T102208_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_20210522T110456_20210522T110725_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_20210522T110942_20210522T111120_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_20210522T114046_20210522T114240_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_20210522T123607_20210522T124144_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_20210522T133512_20210522T133720_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_20210522T134259_20210522T134420_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_20210522T145456_20210522T145803_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_20210522T145859_20210522T150032_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_20210522T150403_20210522T150544_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

COUNT_SEL_CONE_2 201002710302 [28100271044 CD01   CD02 Selection County   Fig. CD02 Selection County	CS_OFFL_SIR_IOPN_2_20210522T151425_20210522T151910_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_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_201602710169_001  CS_OFF_SIR_OFF_2_201602719169_001  CS_O	CS_OFFL_SIR_IOPN_2_20210522T173706_20210522T174058_C001		
CB_OPT_SRI_OPT_2-23210027101051-23210327101051_CO10  CB_OPT_SRI_OPT_2-23210027101051-23210327101051_CO10  CB_OPT_SRI_OPT_2-23210027101051-23210327101051_CO10  CB_OPT_SRI_OPT_2-23210027101051-23210327101051_CO10  CB_OPT_SRI_OPT_2-23210027101051-23210327101052_CO10  CB_OPT_SRI_OPT_2-23210027101051-23210327101052_CO10  CB_OPT_SRI_OPT_2-23210027101052_CO10  CB_OPT_SRI_OPT_2-23210027101053_CO10  CB_OPT_SRI_OPT_2-2	CS_OFFL_SIR_IOPN_2_20210522T182251_20210522T182414_C001		
CR_OFFL_SRI_OFFL_2_261652721403_20216527216046_2001  CR_OFFL_SRI_OFFL_2_261652721403_20216527216056_2001  CR_OFFL_SRI_OFFL_2_261652721403_20216527216056_2001  CR_OFFL_SRI_OFFL_2_2616527214036_20216527210056_2001  CR_OFFL_SRI_OFFL_2_2616527210357_20216527210056_2001  CR_OFFL_SRI_OFFL_2_2616527210357_20216527210056_2001  CR_OFFL_SRI_OFFL_2_2616527210357_20216527210056_2001  CR_OFFL_SRI_OFFL_2_2616527210357_20216527210056_2001  CR_OFFL_SRI_OFFL_2_2616527210357_20216527210056_2001  CR_OFFL_SRI_OFFL_2_261652700357_20216527210056_2001  CR_OFFL_SRI_OFFL_2_261652700357_2021652710056_2001  CR_OFFL_SRI_OFFL_2_261652700356_2001652710056_2001  CR	CS_OFFL_SIR_IOPN_2_20210522T183623_20210522T183722_C001		
DOG Blackscatter (Quality)  CEQ. (PREL_SIRE, (DRM_2_X82105221214600_202105221214600_202105221214600_202105214600_202105214600_20	CS_OFFL_SIR_IOPN_2_20210522T195739_20210522T195831_C001		
Des. OFFL. SIR. (IOPR. 2. 20110827101980 20110827030959, 00011  CS. OFFL. SIR. (IOPR. 2. 20110827101980 20110827030959, 00011  CS. OFFL. SIR. (IOPR. 2. 20110827101980 201108270319159, 00011  CS. OFFL. SIR. (IOPR. 2. 20110827101980 20110827031909, 00011  CS. OFFL. SIR. (IOPR. 2. 20110827101980 20110827031909)  CS. OFFL. SI	CS_OFFL_SIR_IOPN_2_20210522T210423_20210522T210545_C001		
CG_OFFL_SIR_IOPR_2_20210527101542_20210527101543_C001  CG_OFFL_SIR_IOPR_2_20210527101542_20210527101543_C001  CG_OFFL_SIR_IOPR_2_20210527101565_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527101566_C001  CG_OFFL_SIR_IOPR_2_20210527105666_C00101571556  CG_OFFL_SIR_IOPR_2_20210527105666_C00101571556  CG_OFFL_SIR_IOPR_2_20210527105666_C00101571556  CG_OFFL_SIR_IOPR_2_20210527105666_C00101571556  CG_OFFL_SIR_IOPR_2_20210527105666_C00101571556  CG_OFFL_SIR_IOPR_2_20210527105666_C0010157156  CG_OFFL_SIR_IOPR_2_20210527105666_C0010157156  CG_OFFL_SIR_IOPR_2_20210527105666_C0010157156  CG_OFFL_SIR_IOPR_2_20210527105666_C0010157156  CG_OFFL_SIR_IOPR_2_20210527105666_C0010571566  CG_OFFL_SIR_IOPR_2_20210527105666_C0010571566  CG_OFFL_SIR_IOPR_2_20210527105666_C0010571566  CG_OFFL_SIR_IOPR_2_20210527105666_C0010571566  CG_OFFL_SIR_IOPR_2_20210527105666_C00105	CS_OFFL_SIR_IOPN_2_20210522T214356_20210522T214803_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210522T001442_0010  CS_OFFL_SIR_IOPR_2_2021052T101147_0021052108494_001  CS_OFFL_SIR_IOPR_2_2021052T101147_0021052108494_001  CS_OFFL_SIR_IOPR_2_2021052T101147_0021052708494_001  CS_OFFL_SIR_IOPR_2_2021052T101147_0021052T01851_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T01851_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T01851_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T01851_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T018515_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T018515_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T018515_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T018515_001  CS_OFFL_SIR_IOPR_2_2021052T101867_0021052T01853_001  CS_OFFL_SIR_IOPR_2_2021052T101864_001052T018540_001  CS_OFFL_SIR_IOPR_2_2021052T101864_001052T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001052T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001052T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001062T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001062T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001062T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001062T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001062T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001062T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018540_001062T018540_001  CS_OFFL_SIR_IOPR_2_2021052T1018	CS_OFFL_SIR_IOPN_2_20210522T232607_20210522T232659_C001		
and Beacasteric Cuality PEAN COCO Altimeter Range and Backscatter Cuality PEap have been addressed to County CS_OFFL_SIR_JOPR_2_20210522101816_202103251_COCI 101831_COCI CS_OFFL_SIR_JOPR_2_20210522101806_202101806_COCI 101831_COCI CS_OFFL_SIR_JOPR_2_202105221014004_20210522101806_COCI 101831_COCI CS_OFFL_SIR_JOPR_2_202105221014004_20210522101806_COCI 101831_COCI 1	CS_OFFL_SIR_IOPR_2_20210522T001212_20210522T001529_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPR_2_20210527013657_2021052701365_C001  CS_OFFL_SIR_JOPR_2_20210527013657_2021052701365_C001  CS_OFFL_SIR_JOPR_2_20210527013657_2021052701365_C001  CS_OFFL_SIR_JOPR_2_20210527013657_2021052701365_C001  CS_OFFL_SIR_JOPR_2_20210527013657_2021052701365_C001  CS_OFFL_SIR_JOPR_2_20210527013602_2021052701365_C001  CS_OFFL_SIR_JOPR_2_20210527013602_2021052700233_C001  CS_OFFL_SIR_JOPR_2_20210527013602_2021052700233_C001  CS_OFFL_SIR_JOPR_2_20210527013602_2021052700233_C001  CS_OFFL_SIR_JOPR_2_20210527023951_20210522702409_C001  CS_OFFL_SIR_JOPR_2_20210527023951_20210522702409_C001  CS_OFFL_SIR_JOPR_2_2021052703951_20210522702409_C001  CS_OFFL_SIR_JOPR_2_2021052703951_2021052270409_C001  CS_OFFL_SIR_JOPR_2_2021052703951_2021052270409_C001  CS_OFFL_SIR_JOPR_2_20210527053951_2021052270409_C001  CS_OFFL_SIR_JOPR_2_20210527053951_2021052270409_C001  CS_OFFL_SIR_JOPR_2_20210527053951_2021052270409_C001  CS_OFFL_SIR_JOPR_2_20210527053951_20210522704090_C001  CS_OFFL_SIR_JOPR_2_20210527053951_20210522704090_C001  CS_OFFL_SIR_JOPR_2_20210527053951_20210522704090_C001  CS_OFFL_SIR_JOPR_2_202105227053951_20210522704090_C001  CS_OFFL_SIR_JOPR_2_202105227053951_20210522704090_C001  CS_OFFL_SIR_JOPR_2_202105227053951_20210522705395_C001  CS_OFFL_SIR_JOPR_2_202105227053954_20010927075396_C001  CS_OFFL_SIR_JOPR_2_202105227053964_20010927075396_C001  CS_OFFL_SIR	CS_OFFL_SIR_IOPR_2_20210522T001747_20210522T002434_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscaster Guelly Decem Altimeter Range, SSHA, SWH and Backscaster Quality Flags and the COGA Altimeter Range, SSHA, SWH and Backscaster Quality Flags	CS_OFFL_SIR_IOPR_2_20210522T011816_20210522T011831_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_202105271014904_20210527102033_C001  CS_OFFL_SIR_IOPR_2_20210527101528_20210527102033_C001  CS_OFFL_SIR_IOPR_2_20210527101528_20210527102033_C001  CS_OFFL_SIR_IOPR_2_2021052710528_20210527102033_C001  CS_OFFL_SIR_IOPR_2_20210527103451_20210527102033_C001  CS_OFFL_SIR_IOPR_2_20210527103451_20210527104059_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104059_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104054_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104054_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104054_C0010527104039_C001  CS_OFFL_SIR_IOPR_2_20210527104054_C0010527105325_C001  CS_OFFL_SIR_IOPR_2_20210527104054_C0010527105325_C001  CS_OFFL_SIR_IOPR_2_20210527104064_C0010527105326_C001  CS_OFFL_SIR_IOPR_2_20210527104064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_20210527104064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_20210527104064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_20210527104064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_20210527104064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_20210527104064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_2021052710520504040_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271054064_C00105271053843_C001  CS_OFFL_SIR_IOPR_2_202105271	CS_OFFL_SIR_IOPR_2_20210522T013557_20210522T013655_C001		
GS_OFFL_SIR_IOPR_2_20210522T015828_20210522T02305_CO1  and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Plags have been and backscatter Quality PLRM. OCOG Altimeter Range, SSHA. SWH and Backscatter Quality PLRM. OCOG Altimeter Range, SSHA. SWH and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Plags have been and backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Plags	CS_OFFL_SIR_IOPR_2_20210522T014904_20210522T015115_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Quality PLRM Cocan Altimeter Range and Backscater Quality PLRM CS_OFFL_SIR_IOPR_2_20210522T03451_20210522T03439_C001  CS_OFFL_SIR_IOPR_2_20210522T03451_20210522T04399_C001  CS_OFFL_SIR_IOPR_2_20210522T041950_20210522T04099_C001  CS_OFFL_SIR_IOPR_2_20210522T041950_20210522T04099_C001  CS_OFFL_SIR_IOPR_2_20210522T041950_20210522T04099_C001  CS_OFFL_SIR_IOPR_2_20210522T041950_20210522T04099_C001  CS_OFFL_SIR_IOPR_2_20210522T051144_20210522T051921_C001  CS_OFFL_SIR_IOPR_2_20210522T051144_20210522T051921_C001  CS_OFFL_SIR_IOPR_2_20210522T051145_20210522T051921_C001  CS_OFFL_SIR_IOPR_2_20210522T05115_20210522T051921_C001  CS_OFFL_SIR_IOPR_2_20210522T05115_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05234_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05234_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05234_20210522T05326_C001  CS_OFFL_SIR_IOPR_2_20210522T05454_20210522T05326_C001  CS_OFFL_SIR_IOPR_2_20210522T05454_20210522T05364_C001  CS_OFFL_SIR_IOPR_2_20210522T05454_20210522T05364_C001  CS_OFFL_SIR_IOPR_2_20210522T05454_20210522T05364_C001  CS_OFFL_SIR_IOPR_2_20210522T05454_20210522T05364_C001  CS_OFFL_SIR_IOPR_2_20210522T05454_20210522T05364_C001  CS_OFFL_SIR_IOPR_2_20210522T06544_20210522T05364_C001  CS_OFFL_SIR_IOPR_2_20210522T06544_20010522T06544_C001  CS_OFFL_SIR_IOPR_2_20210522T06544_C001052T06544_C001  CS_OFFL_SIR_IOPR_2_20210522T06544_C001052T06544_C001  CS_OFFL_SIR_IOPR_2_20210522T06544_C001052T06544_C001  CS_OFFL_SIR_IOPR_2_20210522T0654	CS_OFFL_SIR_IOPR_2_20210522T015628_20210522T020233_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210522T03451_20210522T034339_C001  and Backscatter Quality FLRM, COGG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210522T041950_20210522T042039_C001  CS_OFFL_SIR_IOPR_2_20210522T051144_20210522T051921_C001  CS_OFFL_SIR_IOPR_2_20210522T051144_20210522T051921_C001  CS_OFFL_SIR_IOPR_2_20210522T051144_20210522T051921_C001  CS_OFFL_SIR_IOPR_2_20210522T051515_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T0525257_C001  CS_OFFL_SIR_IOPR_2_20210522T0525257_C001  CS_OFFL_SIR_IOPR_2_20210522T0525257_C001  CS_OFFL_SIR_IOPR_2_20210522T05257_C001  CS_OFFL_SIR_IOPR_2_20210522T05557_C001  CS_OFFL_SIR_IOPR_2_20210522T05557_C001  CS_OFFL_SIR_IOPR_2_20210522T05557_C001  CS_OFFL_SIR_IOPR_2_20210522T05557_C001  CS_OFFL_SIR_IOPR_2_20210522T05557_C001  CS_OFFL_SIR_IOPR_2_20210522T05557_C001  CCG_Allimeter Range and Backscatter Quality Flags have been set for one or not records.  CCG_Allimeter Range and Backscatter Quality Flags have been set for one or not records.  CCG_Allimeter Range and Backscatter Quality Flags have been set for one or not records.  CCG_Allimeter Range and Backscatter Quality Flags have been set for one or not records.  CCG_Allimeter Range and Backscatter Quality Fl	CS_OFFL_SIR_IOPR_2_20210522T023951_20210522T024059_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210522T041950_20210522T05124_C001  Alimeter Range and Backscatter Quality PLRM, OCOG Alimeter Range, SSHA, SWH and Backscatter Quality Plags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T053257_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T053257_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T05326_C001  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T05326_C001  CS_OFFL_SIR_IOPR_2_20210522T08524_20210522T05326_C001  CS_OFFL_SIR_IOPR_2_20210522T08524_20210522T083643_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708543_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T085257_C0052708523_C001  CS_OFFL_SIR_IOPR_2_20210522T08525_C00522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  COGG Altimeter Range CSHA_SWH and Backscatter Quality PLRM, COGG Altimeter Range and Backscatter Quality PLRM, COGG Altimeter	CS_OFFL_SIR_IOPR_2_20210522T033451_20210522T034339_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210522T051144_20210522T051921_C001  Alimeter Range and Backscatter Quality PLRM, OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210522T05231_20210522T052357_C001  CS_OFFL_SIR_IOPR_2_20210522T065115_20210522T065742_C001  CS_OFFL_SIR_IOPR_2_20210522T065115_20210522T065742_C001  CS_OFFL_SIR_IOPR_2_20210522T065115_20210522T065742_C001  CS_OFFL_SIR_IOPR_2_20210522T074954_20210522T075336_C001  CS_OFFL_SIR_IOPR_2_20210522T074954_20210522T075336_C001  CS_OFFL_SIR_IOPR_2_20210522T082924_20210522T083643_C001  CS_OFFL_SIR_IOPR_2_20210522T082924_20210522T083843_C001  CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083823_C001  CS_OFFL_SIR_IOPR_2_20210522T083649_20210522T083823_C001  CS_OFFL_SIR_IOPR_2_20210522T083649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T1010540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T1010560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T100560_20210522T100540_C001  CS_OFFL_SIR_IOPR_2_20210522T1	CS_OFFL_SIR_IOPR_2_20210522T041950_20210522T042039_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality  CS_OFFL_SIR_IOPR_2_20210522T065115_20210522T065742_C001  CS_OFFL_SIR_IOPR_2_20210522T065115_20210522T065742_C001  CS_OFFL_SIR_IOPR_2_20210522T074954_20210522T075326_C001  CS_OFFL_SIR_IOPR_2_20210522T074954_20210522T075326_C001  CS_OFFL_SIR_IOPR_2_20210522T082924_20210522T083643_C001  CS_OFFL_SIR_IOPR_2_20210522T082924_20210522T083643_C001  CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083643_C001  CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083623_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T10056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_2021052	CS_OFFL_SIR_IOPR_2_20210522T051144_20210522T051921_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscat	CS_OFFL_SIR_IOPR_2_20210522T052231_20210522T052357_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210522T082924_20210522T083643_C001  CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083823_C001  CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083823_C001  CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083823_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20210522T065115_20210522T065742_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083823_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T10056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C00	CS_OFFL_SIR_IOPR_2_20210522T074954_20210522T075326_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001	CS_OFFL_SIR_IOPR_2_20210522T082924_20210522T083643_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM  CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001  The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20210522T083643_20210522T083823_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality  OCOG Backscatter Quality  OCOG Backscatter Quality  More records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20210522T091649_20210522T091948_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20210522T100550_20210522T100716_C001	OCOG Backscatter Quality	
	CS_OFFL_SIR_IOPR_2_20210522T101056_20210522T101540_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

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CS_OFFL_SIR_IOPR_2_20210522T101540_20210522T101701_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_20210522T101931_20210522T102015_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_20210522T102025_20210522T102105_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_20210522T105327_20210522T110026_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_20210522T114859_20210522T115423_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_20210522T121702_20210522T122015_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_20210522T131411_20210522T131437_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_20210522T132245_20210522T132315_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_20210522T132912_20210522T133013_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_20210522T133145_20210522T133511_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_20210522T141630_20210522T141751_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_20210522T150646_20210522T150710_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_20210522T150710_20210522T151425_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_20210522T155520_20210522T155728_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_20210522T160835_20210522T161014_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_20210522T164505_20210522T164644_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_20210522T164658_20210522T164909_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_20210522T164921_20210522T165456_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_20210522T173431_20210522T173705_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_20210522T182239_20210522T182250_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_20210522T182650_20210522T182736_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_20210522T182833_20210522T183623_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_20210522T192632_20210522T192812_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_20210522T193518_20210522T194114_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_20210522T200645_20210522T201931_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_20210522T214803_20210522T215504_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_20210522T215646_20210522T215934_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_20210522T224350_20210522T225009_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_20210522T232018_20210522T232026_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_20210522T232659_20210522T233239_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_20210522T233329_20210522T233425_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 20

## 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

#### L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

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

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

Number of products with errors:

## 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

## 6.4 P2P Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > 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_220210521T232931_20210522T001910_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_220210522T001910_20210522T010845_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_20210522T010845_20210522T015825_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_220210522T015825_20210522T024800_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_220210522T024800_20210522T033739_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	Topography (solution 1), and tidal corrections for one or more records

CS_OFFL_SIR_IOP_220210522T033739_20210522T042715_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_220210522T042715_20210522T051654_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_220210522T051654_20210522T060630_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_220210522T060630_20210522T065609_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_220210522T065609_20210522T074544_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_220210522T074544_20210522T083523_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_220210522T083523_20210522T092459_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_220210522T092459_20210522T101438_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_20210522T101438_20210522T110414_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_220210522T110414_20210522T115353_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_20210522T115353_20210522T124328_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_220210522T124328_20210522T133307_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_220210522T133307_20210522T142243_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_220210522T142243_20210522T151222_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_220210522T151222_20210522T160158_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_220210522T160158_20210522T165137_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_220210522T165137_20210522T174113_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_220210522T174113_20210522T183051_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_220210522T183051_20210522T192027_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_220210522T192027_20210522T201006_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_220210522T201006_20210522T205942_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_220210522T205942_20210522T214921_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_220210522T214921_20210522T223856_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_220210522T223856_20210522T232835_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_20210522T232835_20210523T001811_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

## 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220210522T033739_20210522T042715_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220210522T142243_20210522T151222_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20Hz)

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

Number of products with errors:

# P2P Quality Flags (20Hz PLRM)

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

Number of products with errors:

30

30

30

#### P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors:

#### 6.8 P2P Ocean Retracking Quality Check

## P2P Retracking Flags (20Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors:

#### P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

## 7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	173	173	4	169	0
SIR_IOPR1B	129	107	2	105	0
SIR_IOPN1B	107	129	0	129	0
SIR_IOPM_2	173	173	111	62	0
SIR_IOPR_2	129	107	45	62	0
SIR_IOPN_2	107	129	46	83	0
SIR_IOP_P2P	29	29	0	29	0

#### 7.1 QCC Errors

Number of QCC reports with errors:

0

Total number of occurrences of each error

#### 7.2 QCC Warnings

Number of QCC reports with warnings

2244

Total number of occurrences of each warning

	Total number of occurrences of each warming							
	Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
Ī	SIR_IOPM1B	169	0	0	0	0	0	0
	SIR_IOPM_2	0	44	43	0	46	0	35
	SIR_IOPN1B	102	0	0	0	0	0	0
	SIR_IOPN_2	0	10	33	4	21	26	14
	SIR_IOPR1B	127	0	0	0	0	0	0
	SIR IOPR 2	0	35	52	0	33	25	14

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	2	40	0	0	0	0	32
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	2	0	0	22	0	32	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	5	0	49	0	53	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	0	9	26	0	3	38
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	27	16	46	58	35	26
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	49	0	2	70	28	6	38

	Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
Ī	SIR_IOPM1B	0	0	1	0	0	0	0
	SIR_IOPM_2	0	2	1	0	0	0	0
	SIR_IOPN1B	0	0	0	0	0	47	2
	SIR_IOPN_2	30	15	0	0	0	0	0
	SIR_IOPR1B	0	0	0	1	0	129	10
	CID IODD 3	E0.	2	4	0	1	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	13	27	29	4	28	18	28
,	•	,				,	

	Froduct Type	TATELL OTORODI	IN EI OI I DI EINMONNICO	I LI OI I DOMINODI	IN LI OI OINNODI	ROODCORODI	NOOHAOI BINOBI	ROOMACI DI ERMINODI
	SIR_IOP_2_	7	18	29	20	21	29	19
	Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	-
Г	010 100 0	00	00	10	10	00		

S	SIR_IOP_2_	23	28	19	16	29	
Pi	roduct Type					•	•
S	SIR_IOP_2_						

Test Description Key:							
Abbreviation	Test name	Details					
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					

MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

# 7.3 Missing QCC Reports

Number of products with missing QCC reports: