

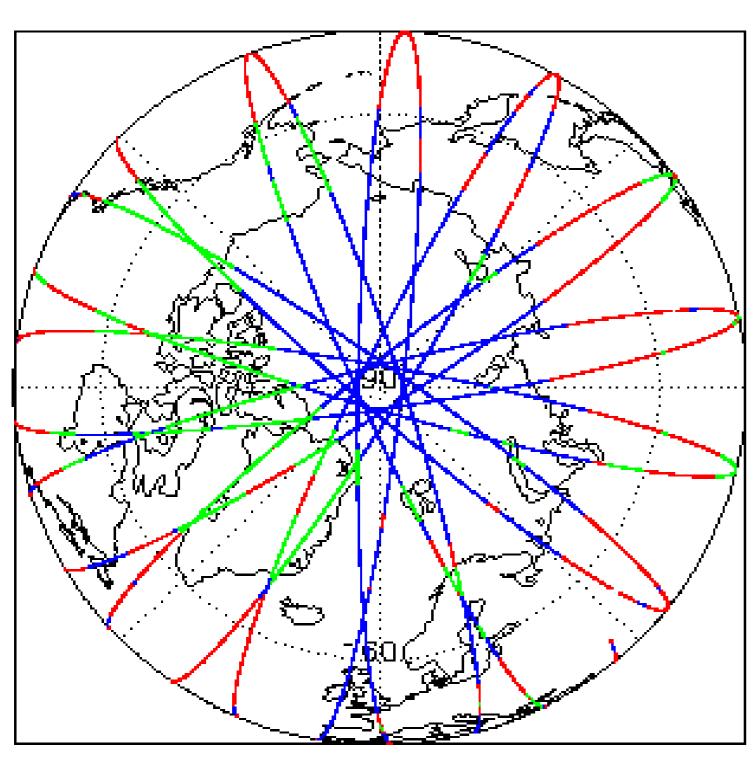
1. Overview

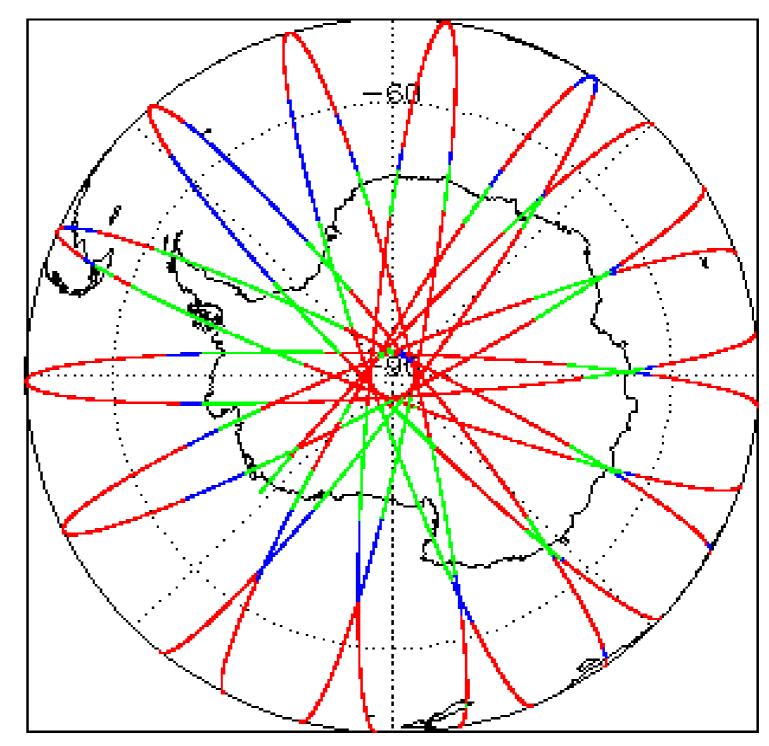
Report Production:	19-Jan-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

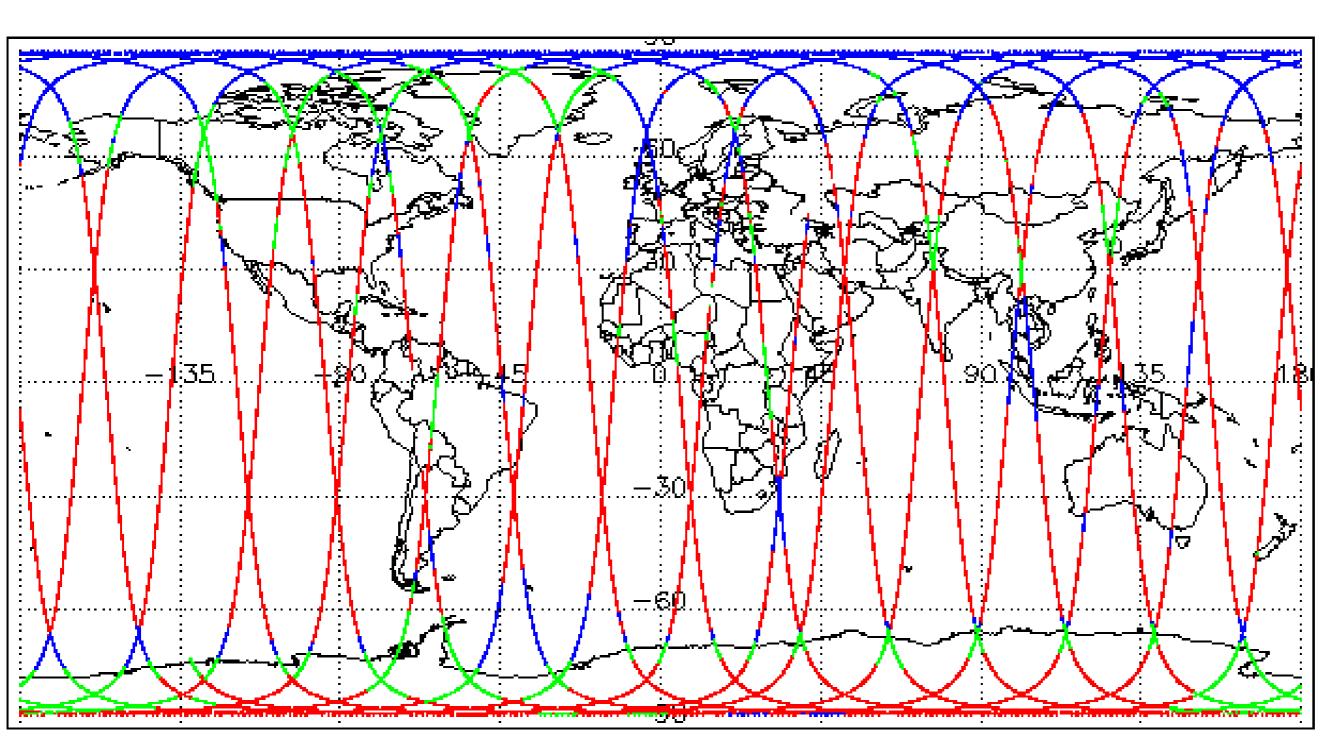
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

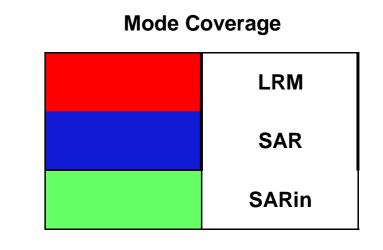
Mission / I	nstrument News
16-Jan-20	None
17-Jan-20	None None
18-Jan-20	Nothing planned

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 NetCDF product file (.nc).

4.2 L1B Product Header Analysis

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

Number of products with errors:

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

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:

 \cap

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. The attitude correction is actually not missing. This will be resolved in the next SW update.

Number of products with errors:

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. The table provides the full list of products flagged.

Number of products with errors:

17

0

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20230117T063638_20230117T064837_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230117T103953_20230117T110723_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230117T164456_20230117T164632_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230117T231841_20230117T234004_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T062905_20230117T063133_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T080536_20230117T080758_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T124608_20230117T124814_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T125755_20230117T125856_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T171205_20230117T171348_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T175217_20230117T175604_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T185031_20230117T185644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230117T193233_20230117T193635_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230117T052447_20230117T053057_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230117T063401_20230117T063638_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230117T111812_20230117T112647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230117T192902_20230117T193124_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230117T230117_20230117T230344_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors: 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).

0

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

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

Number of products with errors:

10 10 10 10 10 10 10 10	Product	Test Failed	Description
C.C.,CEPT_BET_COPT_200201 TTO 129 _ EXCENT EXCENT TTO 129 _ EXCENT TTO 129 _ EXCENT TTO 129 _ EXCENT E	CS_OFFL_SIR_IOPM_2_20230117T093627_20230117T093654_C001	Tiviean Dynamic Toboqraphy (1)	
Section 18 CPP 3 PASSATTERS PROVIDED SOLVE TYPES PR	CS_OFFL_SIR_IOPN_2_20230117T011807_20230117T012033_C001	Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium
CB OFF. Bits OfF 2 2000H 1776-177 5000-1770000 OFF. CB OFF. Bits OFF 2 2000H 1776-100-1000 OFF. CB OFF. Bits OFF 2 2000H 1770000 OFF. CB OFF. Bits OFF. 2 2000H 1770000 OFF. CB OFF. 2 2000H 1770000 OFF. CB OFF. 2 2000H 1770000 OFF. CB OFF. 2	CS_OFFL_SIR_IOPN_2_20230117T021041_20230117T021206_C001		
Column C	CS_OFFL_SIR_IOPN_2_20230117T021717_20230117T022021_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
Separate Color C	CS_OFFL_SIR_IOPN_2_20230117T035108_20230117T035405_C001	. , ,	, , ,
The Content Content Content The Content Co	CS_OFFL_SIR_IOPN_2_20230117T035620_20230117T040140_C001		, , , , , , , , , , , , , , , , , , , ,
Tourscapely (1) Copyright Roman 2 2022017702064 (2023)17702076 (2001 Double Ske Kidner 2 2022017702064 (2023)17702076 (2001 Copyright (1) Double Ske Kidner 2 2022017702064 (2023)17702065 (2023)17702076 (2001 Double Ske Kidner 2 2022017702066 (2023)17702076 (2023)17702076 (2023) Double Ske Kidner 2 2022017702066 (2023)17702076 (2	CS_OFFL_SIR_IOPN_2_20230117T044718_20230117T045137_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
Toggraphy (1) Co. OFFL.SR., OPFL.2 202001 / Todges 202001 TOGGES 202001 Co. OFFL.SR., OPFL.2 202001 / Todges 202001 TOGGES 202001 TOGGES 202001 Co. OFFL.SR., OPFL.2 202001 / Todges 202001 TOGGES	CS_OFFL_SIR_IOPN_2_20230117T053057_20230117T053332_C001		
See OPE - SER IDPN 2 2020117107009 2020117107000 COD See OPE - SER IDPN 2 2020117107000 2020117107000 COD See OPE - SER IDPN 2 2020117107000 2020117107000 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 202011710800 COD See OPE - SER IDPN 2 202011710800 2020117110800 COD See OPE - SER IDPN 2 202011710276 20200117110800 COD See OPE - SER IDPN 2 202011710276 20200117110800 COD See OPE - SER IDPN 2 2020117110800 2020117110800 COD See OPE - SER IDPN 2 2020117110800	CS_OFFL_SIR_IOPN_2_20230117T062613_20230117T062726_C001		
Tapagraphy (1) Tapagraphy (2) Tapagraphy (2) Mean Drawnic Tapagraphy (1) Mean Drawnic Tapagraphy (1	CS_OFFL_SIR_IOPN_2_20230117T062905_20230117T063133_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_LOPIL_20200177109036_2020117709036_C001 Alean Dynamic Topography (1) CS_OFFL_SIR_LOPIL_2020017709036_2020117709036_C001 CS_OFFL_SIR_LOPIL_2020017709036_202017709036_C001 CS_OFFL_SIR_LOPIL_2020017709036_202017709036_C001 CS_OFFL_SIR_LOPIL_20200177109736_202001709036_C001 CS_OFFL_SIR_LOPIL_20200177109736_202001709036_C001 CS_OFFL_SIR_LOPIL_20200177109736_202001709036_C001 CS_OFFL_SIR_LOPIL_20200177109736_202001709036_C001 CS_OFFL_SIR_LOPIL_20200177109736_202001709036_C001 CS_OFFL_SIR_LOPIL_202001771109736_202001709036_C001 CS_OFFL_SIR_LOPIL_202001771109736_202001709036_C001 CS_OFFL_SIR_LOPIL_202001771109736_20200177109036_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109036_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109037_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109037_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109037_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109037_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109037_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109037_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109037_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109038_C001 CS_OFFL_SIR_LOPIL_20200177113090_2020177109038_C001 CS_OFFL_SIR_LOPIL_202001771130938_C0020177109038_C001 CS_OFFL_SIR_LOPIL_202001771130938_C001 CS_OFFL_SIR_LOPIL_202001771130938_C0020177109038_C001 CS_OFFL_SIR_LOPIL_202001771130938_C0020177109038_C001 CS_OFFL_SIR_LOPIL_202001771109038_C001 CS_OFFL_SIR_LOPIL_202001771109038_C001 CS_OFFL_SIR_LOPIL_202001771109038_C001 CS_OFFL_SIR_LOPIL_20200177109038_C001 CS_OFFL_SIR_LOPIL_20200177109038_C001 CS_OFFL_SIR_LOPIL_20200177109038_C001 CS_OFFL_SIR_LOPIL_202001777109038_C001 CS_OFFL_SIR_LOPI	CS_OFFL_SIR_IOPN_2_20230117T070354_20230117T070455_C001		, , , , , , , , , , , , , , , , , , , ,
CS_OFFL_SIR_JOPPL_28239117 198769_28239117 198769_COUNTY	CS_OFFL_SIR_IOPN_2_20230117T070600_20230117T071154_C001	Mean Dynamic Topography (1)	
Topography (1) CS OFFL SIR IGPN 2 2020117T094519 2020117T09455 C001 Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) CS OFFL SIR IGPN 2 2020117T109748 2020117T109201 C001 Mean Sea Surface (1), Mean Dynamic Topography (1) CS OFFL SIR IGPN 2 2020117T109748 2020117T109749 C0001 CS OFFL SIR IGPN 2 2020117T109748 2020117T109749 C0001 CS OFFL SIR IGPN 2 2020117T109748 2020117T109749 C0001 CS OFFL SIR IGPN 2 2020117T109749 C000117T109749 C	CS_OFFL_SIR_IOPN_2_20230117T080536_20230117T080758_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS OFFL SIR JOPN 2 202301171192582 20230117129515 CO1 Mean Dynamic Topography (1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) SOFFL SIR JOPN 2 202301171195582 202301171195113 CO1 Mean Sins Surface (1), Mean Dynamic Topography (1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) SOFFL SIR JOPN 2 202301171193185 202301171195185 CO1 Mean Dynamic Topography (1) Mean Sins Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS OFFL SIR JOPN 2 202301171193185 20230117119355 CO1 Mean Sins Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) Topography (1) Mean Sins Surface (1), Mean Dynamic Topography height (solution 1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) SOFFL SIR JOPN 2 2023011718233 20230117192531 CO1 Mean Sins Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) Mean Sins Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an curso with the MSS height (solution 1) and the Mean Dynamic Topography (1) Soffl Sir JOPN 2 20230117129453	CS_OFFL_SIR_IOPN_2_20230117T084815_20230117T085007_C001		
GS_OFFL_SIR_JOPN_2_20230117T120748_20230117T125078_20230117T125078_00001 GS_OFFL_SIR_JOPN_2_20230117T1250748_20230117T125078_00001 GS_OFFL_SIR_JOPN_2_20230117T1350748_20230117T13507_0001 GS_OFFL_SIR_JOPN_2_20230117T1350748_20230117T13507_0001 Mean Sau Surface (1), Mean Dynamic Topography (1) Mean Sau Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) GS_OFFL_SIR_JOPN_2_20230117T135548_20230117T135037_0001 Mean Sau Surface (1), Mean Dynamic Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (2) GS_OFFL_SIR_JOPN_2_20230117T163458_20230117T163664_0001 Mean Sau Surface (1), Mean Dynamic Topography (2) GS_OFFL_SIR_JOPN_2_20230117T163031_20230117T163655_0001 Mean Sau Surface (1), Mean Dynamic Topography (2) Mean Sau Surface (1), Mean Dynamic Topography (3) Mean Sau Surface (1), Mean Dynamic Topography (4) Mean Sau Surfac	CS_OFFL_SIR_IOPN_2_20230117T094519_20230117T094955_C001	TIVIEAN DYNAMIC TODOOTADNY CD	
Topgraphy (1) CS OFFL SIR IOPN 2 20230117T125362 20230117T13973_C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS OFFL SIR IOPN 2 20230117T139549_20230117T13973_C001 Mean Sea Surface (1), Mean Dynamic Topgraphy height (solution 1) and the Mean Dynamic Topgraphy height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T139549_20230117T13973_C001 Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T139549_20230117T13953_C001 Mean Sea Surface (1), Mean Dynamic Topgraphy height (solution 1) and the Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T153468_20230117T161832 C001 CS_OFFL_SIR_IOPN_2_20230117T161716 20230117T161832 C001 CS_OFFL_SIR_IOPN_2_20230117T161716 20230117T161832 C001 CS_OFFL_SIR_IOPN_2_20230117T185031 20230117T161832 C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T192331 20230117T188644 C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T192331 20230117T192331 C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T202552_20230117T203311_C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T202552_20230117T203311_C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T202552_20230117T203311_C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T201108_20230117T2015161 C001 Mean Sea Surface (1), Mean Dynamic Topgraphy (1) Mean Sea Surface (1), Mean Dynamic Topgraphy (1) CS_OFFL_SIR_IOPN_2_20230117T2015252_20230117T2015161 C001 CS_OFFL_SIR_IOPN_2_20230117T2015252_20230117T2015161 C001 CS_OFFL_SIR_IOPN_2_20230117T204656 20230117T205161 C001 Mean Dynamic Topgraphy (1) Mean Dynamic Topgraphy (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topgraphy (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topgraphy (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	CS_OFFL_SIR_IOPN_2_20230117T102755_20230117T102933_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20230117T13503_C0030117T13503_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T13543_20230117T13573_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T135458_20230117T13573_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T135458_20230117T13565_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T18503_20230117T16564_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T185031_20230117T135644_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T185031_20230117T195635_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T202332_20230117T193635_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T2023311_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T2023311_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20230117T203311_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T224532_20230117T221515_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T23456_20230117T23451_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T23456_20230117T23451_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFF	CS_OFFL_SIR_IOPN_2_20230117T120748_20230117T121132_C001		
Topography (1) Topography (1) Topography (1) Topography (1) Topography height (solution 1) There is an error with 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) 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) Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic Topography 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 height (solution 1) 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) 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) 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) There is an error with the MSS height (s	CS_OFFL_SIR_IOPN_2_20230117T125526_20230117T125616_C001	Total Geocentric Ocean Tide (GOT)	
CS_OFFL_SIR_IOPN_2_20230117T153458_20230117T234531_20230117T23458_20230117T23458_20230117T225556_20230117T225556_20230117T225556_20230117T235555_20230117T233555_20230117T233555_20230117T033079_20001 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 (solu	CS_OFFL_SIR_IOPN_2_20230117T134720_20230117T135037_C001	. , ,	, , , , , , , , , , , , , , , , , , ,
Topography (1) CS_OFFL_SIR_IOPN_2_20230117T16176_20230117T161832_C001 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) 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 Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T202952_20230117T203311_C001 Mean Sea Surface (1), 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) 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) Mean Dynamic Topography (1) There is an error with the Mash height (solution 1) There is an error with the Mash height (solution 1) There is an error with the Mash Dynamic Topography height (solution 1) There is an error with the Mash Dynamic Topography height (solution 1) There is an error with the Mash Dynamic Topography height (solution 1) There is an error with the Mash 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 Dyna	CS_OFFL_SIR_IOPN_2_20230117T135549_20230117T135713_C001		
Topography (1) Topography (1) Topography height (solution 1) 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 (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 2). FES) and the Mon-equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height (solution 2). FES) and the Mon-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Msan Dynamic Topography height (solution 1) for one or more records There is an error with the MsS height (solution 1) and the Mean Dynamic Topography height (s	CS_OFFL_SIR_IOPN_2_20230117T153458_20230117T153605_C001	. , ,	, , ,
Topography (1) 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) 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 2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 2) There is an error with the Mean Dynamic Topography height (solution 2) 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 MSS 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) 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 Dyna	CS_OFFL_SIR_IOPN_2_20230117T161716_20230117T161832_C001		
Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20230117T202952_20230117T203311_C001 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) 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 height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) 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 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)	CS_OFFL_SIR_IOPN_2_20230117T185031_20230117T185644_C001		
Topography (1) CS_OFFL_SIR_IOPN_2_20230117T211108_20230117T211458_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) Mean Sea Surface (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_IOPN_2_20230117T234958_20230117T235117_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20230117T000035_20230117T0012809_C001 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) 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 height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20230117T193233_20230117T193635_C001		, , , , , , , , , , , , , , , , , , , ,
Topography (1) Topography (220301171211108_202301171211108_202301171211498_C001 Topography (1) Topography (1) Topography height (solution 1) Mean Sea Surface (1), Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide 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) 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 height (solution 1)	CS_OFFL_SIR_IOPN_2_20230117T202952_20230117T203311_C001		5
CS_OFFL_SIR_IOPN_2_20230117T224532_20230117T225151_C001 CS_OFFL_SIR_IOPN_2_20230117T234958_20230117T235117_C001 Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20230117T000035_20230117T000103_C001 CS_OFFL_SIR_IOPR_2_20230117T012115_20230117T012809_C001 CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T0130709_C001 Mean Sea Surface (1), 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) Mean Sea Surface (1), 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) Mean Sea Surface (1), 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) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20230117T211108_20230117T211458_C001		
CS_OFFL_SIR_IOPR_2_20230117T000035_20230117T000103_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPR_2_20230117T012115_20230117T012809_C001 CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20230117T025956_20230117T030709_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) 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)	CS_OFFL_SIR_IOPN_2_20230117T224532_20230117T225151_C001	Ocean Tide (FES), Non-Equilibrium Long	Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period
CS_OFFL_SIR_IOPR_2_20230117T012115_20230117T012809_C001 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) CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20230117T025956_20230117T030709_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20230117T030710_20230117T030918_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPN_2_20230117T234958_20230117T235117_C001	Mean Dynamic Topography (1)	
Topography (1) CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPR_2_20230117T025956_20230117T030709_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) 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 height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPR_2_20230117T000035_20230117T000103_C001	IIVI C AN DYNAMIC TODOGRADNY (1)	
CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001 Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) Topography height (solution 1) There is an error with the MSS height (solution 1) There is an error with the MSS height (solution 1) Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20230117T012115_20230117T012809_C001		
CS_OFFL_SIR_IOPR_2_20230117T025956_20230117T030709_C001 Topography (1) Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20230117T012810_20230117T013120_C001	` '	
CS OFFI SIR IOPR / 202301171030710 202301171030918 C001	CS_OFFL_SIR_IOPR_2_20230117T025956_20230117T030709_C001		j , , , , , , , , , , , , , , , , , , ,
	CS_OFFL_SIR_IOPR_2_20230117T030710_20230117T030918_C001	. , ,	, , ,

Topography (1) Topography height (solution 1)	
CS_OFFL_SIR_IOPR_2_20230117T044604_20230117T044718_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T061940_20230117T062431_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T062432_20230117T062613_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T075924_20230117T080536_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T094101_20230117T094519_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T111812_20230117T112647_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T125857_20230117T130644_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T143906_20230117T144914_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T161832_20230117T162555_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T175746_20230117T180306_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T193636_20230117T193817_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T193817_20230117T194346_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
CS_OFFL_SIR_IOPR_2_20230117T211458_20230117T212026_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) a Topography height (solution 1)	and the Mean Dynamic
Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOPR_2_20230117T212033_20230117T212321_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Topography (solution 1), the Total Geocentric Ocean GOT) for one or more records	•
CS_OFFL_SIR_IOPR_2_20230117T225151_20230117T230051_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) a Topography height (solution 1)	and the Mean Dynamic

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:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

0

Number of products with errors: 102

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230117T000120_20230117T000735_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_20230117T000751_20230117T000758_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_20230117T001201_20230117T001916_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_20230117T002429_20230117T003032_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_20230117T003239_20230117T003822_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_20230117T004416_20230117T011720_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_20230117T013120_20230117T013211_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_20230117T014819_20230117T020958_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_20230117T021207_20230117T021717_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_20230117T022256_20230117T025722_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_20230117T032154_20230117T032635_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230117T032716_20230117T034621_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_20230117T035406_20230117T035620_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_20230117T040321_20230117T041855_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_20230117T041857_20230117T043413_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_20230117T045214_20230117T051058_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_20230117T051136_20230117T052446_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_20230117T053332_20230117T053529_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_20230117T053700_20230117T054032_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230117T054211_20230117T055752_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_20230117T055955_20230117T060917_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230117T062726_20230117T062904_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_20230117T063145_20230117T063401_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230117T063638_20230117T064837_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_20230117T065507_20230117T065529_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_20230117T070455_20230117T070600_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_20230117T071155_20230117T071455_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_20230117T071501_20230117T071934_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_20230117T072146_20230117T073623_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_20230117T081455_20230117T082206_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_20230117T082329_20230117T084735_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_20230117T085007_20230117T085832_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_20230117T090103_20230117T092650_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_20230117T100117_20230117T102549_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
	1	I

CB_CFF_3R_CPPV_2025H11102BL_X0201111102BL_X0201111102BL_X020111102BL_X	CS_OFFL_SIR_IOPM_2_20230117T103220_20230117T103635_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Security Control of	CS_OFFL_SIR_IOPM_2_20230117T103953_20230117T110723_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col. Dist.	CS_OFFL_SIR_IOPM_2_20230117T110732_20230117T110943_C001	1	
Part	CS_OFFL_SIR_IOPM_2_20230117T113246_20230117T120504_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
25. OFFL SRI	CS_OFFL_SIR_IOPM_2_20230117T121132_20230117T121715_C001	1	
## Bride State County (1900) ## Bri	CS_OFFL_SIR_IOPM_2_20230117T121842_20230117T122455_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
20.0FFL_SIR_LOFAL_2.023011713509_20230117115954_0001	CS_OFFL_SIR_IOPM_2_20230117T125616_20230117T125716_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backsteller Outsity Dozen Alternate Range, SSHA, SVH and Macksteller Outsity Plags have been set for a control records	CS_OFFL_SIR_IOPM_2_20230117T131036_20230117T134454_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and secondarie Capility CCOC Althresis Range, 2014, 20200171193746, 2020017119205 Cities Capility CCOC Althresis Range, 2014, 2014 CS OFFL SIR IOPM 2 20200177114076 2020017715050 Cities Capility CCOC Althresis Range, 2014, 2014 CS OFFL SIR IOPM 2 20200177115052, 20200177152057 Cities Capility CCOC Althresis Range, 2014, 2014 CS OFFL SIR IOPM 2 2020017715052, 20200177152057 Cities Capility CCOC Althresis Range, 2014, 2014 CS OFFL SIR IOPM 2 2020017715052, 20200177152057 Cities Capility CCOC Althresis Range, 2014, 2014 CS OFFL SIR IOPM 2 2020017715052, 20200177152057 Cities Capility CCOC Althresis Range, 2014, 2014 CS OFFL SIR IOPM 2 20200177150460 Cities Capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Range and Backcarder Cupility Flags have been self-capility CCOC Althresis Rang	CS_OFFL_SIR_IOPM_2_20230117T135037_20230117T135549_C001		, , , ,
and Backgranter Quality, COCS Affinited Range and Backgranter Quality Flags have been settlement Range and B	CS_OFFL_SIR_IOPM_2_20230117T135746_20230117T141718_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and backscatter Quality Page have been Altmeter Range and Sackscatter Quality Page have been Altmeter Range and Sackscatter Quality Page have been set for one or nor records CS_OFFL_SIR_JOPM_2_2023011/7116203_2023011/715207_C001 CS_OFFL_SIR_JOPM_2_2023011/715203_2023011/715207_C001 CS_OFFL_SIR_JOPM_2_2023011/715203_2023011/715207_C001 CS_OFFL_SIR_JOPM_2_2023011/7153041_2023011/715307_C001 CS_OFFL_SIR_JOPM_2_2023011/7153041_2023011/715307_C001 CS_OFFL_SIR_JOPM_2_2023011/7153041_2023011/7153048_C001 CS_OFFL_SIR_JOPM_2_2023011/7153042_C003011/715307_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153048_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153048_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153048_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153048_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153048_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153048_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153042_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153042_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153042_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/7153042_C001 CS_OFFL_SIR_JOPM_2_2023011/7153082_2023011/716302_C001 CS_OFFL_SIR_JOPM_2_2023011/7163042_C003011/716302_C001 CS_OFFL_SIR_JOPM_2_2023011/7163044_2023011/716302_C001 CS_OFFL_SIR_JOPM_2_2023011/7163044_2023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/7163044_2023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/7163044_2023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/7163044_2023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/7163044_2023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/7163042_C0001 CS_OFFL_SIR_JOPM_2_2023011/716305_C023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/716305_C023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/716305_C023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/716306_2023011/716305_C0001 CS_OFFL_SIR_JOPM_2_2023011/7164714_2023011/716405_C0001 CS_OFFL_SIR_JOPM_2_2023011/7164714_2023011/716405_C0001 CS_OFFL_SIR_JOPM_2_2023011/7164714_2023011/716405_C0001 CS_OFFL_SIR_JOPM_2_2	CS_OFFL_SIR_IOPM_2_20230117T142825_20230117T142933_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
And Backscatter Quality, OCOS Alterneter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230117T152833_20230117T153037_C001 CS_OFFL_SIR_IOPM_2_20230117T152833_20230117T153037_C001 CS_OFFL_SIR_IOPM_2_20230117T153045_20230117T153057_C001 CS_OFFL_SIR_IOPM_2_20230117T153051_20230117T153757_C001 CS_OFFL_SIR_IOPM_2_20230117T153051_20230117T153757_C001 CS_OFFL_SIR_IOPM_2_20230117T153822_20230117T16426_C001 CS_OFFL_SIR_IOPM_2_20230117T153822_20230117T16426_C001 CS_OFFL_SIR_IOPM_2_20230117T163822_20230117T16426_C001 CS_OFFL_SIR_IOPM_2_20230117T16856_20230117T16426_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T16426_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T16426_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T16426_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164055_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164055_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164055_C001 CS_OFFL_SIR_IOPM_2_20230117T16265_20230117T164055_C001 CS_OFFL_SIR_IOPM_2_20230117T164265_20230117T164055_C001 CS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T16456_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_OFFL_SIR_IOPM_2_20230117T164565_20230117T164055_C001 CCS_O	CS_OFFL_SIR_IOPM_2_20230117T144915_20230117T151755_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Decease Allimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230117T153044_20230117T153459_C001 CS_OFFL_SIR_IOPM_2_20230117T153051_20230117T153459_C001 CS_OFFL_SIR_IOPM_2_20230117T153051_20230117T163757 C001 CS_OFFL_SIR_IOPM_2_20230117T153051_20230117T160406_C001 CS_OFFL_SIR_IOPM_2_20230117T160556_20230117T160406_C001 CS_OFFL_SIR_IOPM_2_20230117T160556_20230117T160406_C001 CS_OFFL_SIR_IOPM_2_20230117T162314_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T163214_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T163214_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T163214_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T163214_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T164458_20230117T164559_C001 CS_OFFL_SIR_IOPM_2_20230117T164458_20230117T164559_C001 CS_OFFL_SIR_IOPM_2_20230117T164016_C001 CS_OFFL_SIR_IOPM_2_20230117T164016_C001 CS_OFFL_SIR_IOPM_2_20230117T164068_20230117T164059_C001 CS_OFFL_SIR_IOPM_2_20230117T164016_C001 CS_OFFL_SIR_IOPM_2_20230117T164068_20230117T164059_C001 CS_OFFL_SIR_IOPM_2_20230117T164068_20230117T162659_C001 CS_OFFL_SIR_IOPM_2_20230117T164068_20230117T162659_C001 CS_OFFL_SIR_IOPM_2_20230117T164068_20230117T162659_C001 CS_OFFL_SIR_IOPM_2_20230117T164068_20230117T162659_C001 CS_OFFL_SIR_IOPM_2_20230117T164068_20230117T162659_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T17040_C001 CS_OFFL	CS_OFFL_SIR_IOPM_2_20230117T151803_20230117T152307_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20230117T163651_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163851_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163851_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163852_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163852_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163852_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163852_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163856_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T163757_C001 CS_OFFL_SIR_IOPM_2_20230117T164455_20230117T164637_C001 CS_OFFL_SIR_IOPM_2_20230117T164455_20230117T164637_C001 CS_OFFL_SIR_IOPM_2_20230117T164455_20230117T164637_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T164637_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T164637_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T164637_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T1645500_C001 Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been action or none records CCG_OFFL_SIR_IOPM_2_20230117T164456_20230117T170240_C001 CCG_OFFL_SIR_IOPM_2_20230117T164456_20230117T170240_C001 CCG_OFFL_SIR_IOPM_2_20230117T164456_20230117T170240_C001 CCG_OFFL_SIR_IOPM_2_20230117T1645500_C0230117T170240_C001 CCG_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CCG_OFFL_SIR_IOPM_2_20230117T170417_2030117T170240_C001 CCG_OFFL_SIR_IOP	CS_OFFL_SIR_IOPM_2_20230117T152833_20230117T153037_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality, CCOG Altimeter Range, SSHA, SWH and Backscatter Quality, CCCOG Altimeter Range and Backscatter Quality Flags and the CCCOG Altimeter Range and Backscatter Quality Flags and the CCCOG Altimeter Range and Backscatter Quality Flags and the CCCOG Altimeter Range and Backscatter Quality Flags and the CCCOG Altimeter Range and Backscatter Quality Flags and the CCCOG Altimeter Range and Backscatter Quality Flags and the CCCOG Altimeter Range and Backscatter Quality Flags and the CCCOG Alt	CS_OFFL_SIR_IOPM_2_20230117T153044_20230117T153458_C001	1	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality and Backscatter Quality and Backscatter Quality and Backscatter Quality DCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Q	CS_OFFL_SIR_IOPM_2_20230117T153651_20230117T153757_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20230117T160556_20230117T161302_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230117T162951_20230117T163125_C001 CS_OFFL_SIR_IOPM_2_20230117T163214_20230117T164015_C001 CS_OFFL_SIR_IOPM_2_20230117T164456_20230117T164632_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T165530_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T165530_C001 CS_OFFL_SIR_IOPM_2_20230117T166550_20230117T17040_C001 CS_OFFL_SIR_IOPM_2_20230117T166550_20230117T17040_C001 CS_OFFL_SIR_IOPM_2_20230117T1665650_20230117T17040_C001 CS_OFFL_SIR_IOPM_2_20230117T1665650_20230117T17040_C001 CS_OFFL_SIR_IOPM_2_20230117T1665650_20230117T17040_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T17040_C001 CS_OFFL_SIR_IOPM_2	CS_OFFL_SIR_IOPM_2_20230117T153822_20230117T160426_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS OFFL SIR IOPM 2 20230117T163214 20230117T164015 C001 CS_OFFL_SIR_IOPM_2 20230117T164456_20230117T164015 C001 CS_OFFL_SIR_IOPM_2 20230117T164456_20230117T164632_C001 CS_OFFL_SIR_IOPM_2 20230117T164711_20230117T165530_C001 CS_OFFL_SIR_IOPM_2 20230117T16550_20230117T165530_C001 CS_OFFL_SIR_IOPM_2 20230117T16550_20230117T165530_C001 CS_OFFL_SIR_IOPM_2 20230117T165650_20230117T170240_C001 CS_OFFL_SIR_IOPM_2 20230117T165650_20230117T170240_C001 CS_OFFL_SIR_IOPM_2 20230117T165650_20230117T170240_C001 CS_OFFL_SIR_IOPM_2 20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2 20230117T170417_20230117T17025_C001 CCG_Altimeter Range Quality, OCOG Backscatter Quality CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2 20230117T170417_20230117T17025_C001 CCG_Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality CCG_Altimeter Range and Backscatter Quality Flags have been set for one or more records CCG_OFFL_SIR_IOPM_2 2023	CS_OFFL_SIR_IOPM_2_20230117T160556_20230117T161302_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_IOPM_2_20230117T164456_20230117T164632_C001 CS_OFFL_SIR_IOPM_2_20230117T164456_20230117T164632_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T165530_C001 CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T165530_C001 CS_OFFL_SIR_IOPM_2_20230117T166650_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T166650_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170937_C001 COCG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230117T170956_20230117T171205_C001 CCOG_Altimeter Range Quality, OCOG_Backscatter Quality Flags have been set for one or more records CCOG_Altimeter Range Altimeter Range Albackscatter Quality Flags have been set for one or more records CCOG_Altimeter Range Albackscatter Quality Flags have been set for one or more records C	CS_OFFL_SIR_IOPM_2_20230117T162951_20230117T163125_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20230117T164456_20230117T164632_CO01 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170937_C001 OCGA Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records OCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230117T170956_20230117T17095C001 OCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records OCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records OCGA Altimeter Range, SSHA, SWH The OCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_IOPM_2_20230117T163214_20230117T164015_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20230117T164711_20230117T165530_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170240_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170937_C001 CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170937_C001 CS_OFFL_SIR_IOPM_2_20230117T170956_2023	CS_OFFL_SIR_IOPM_2_20230117T164456_20230117T164632_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20230117T165650_20230117T170240_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170937_C001 CS_OFFL_SIR_IOPM_2_20230117T170956_20230117T170956_20230117T171205_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records 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_20230117T164711_20230117T165530_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_202301171170417_202301171170937_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20230117T170956_20230117T171205_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20230117T170956_20230117T171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T17171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T17171205_C001 CS_OFFL_SIR_IOPM_2_20230117T17170956_20230117T171710956_20230117T17171710956_20230117T17171717171710956_20230117T17171717171717171717171717171717171	CS_OFFL_SIR_IOPM_2_20230117T165650_20230117T170240_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Group of the Ocean Altimeter Range, SSHA, SWH	CS_OFFL_SIR_IOPM_2_20230117T170417_20230117T170937_C001	_	
	CS_OFFL_SIR_IOPM_2_20230117T170956_20230117T171205_C001	1	·
Altimeter Range and Backscatter Quality set for one or more records	CS_OFFL_SIR_IOPM_2_20230117T172049_20230117T173203_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

		1
CS_OFFL_SIR_IOPM_2_20230117T173500_20230117T174342_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230117T174509_20230117T174858_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_20230117T174909_20230117T175216_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230117T180506_20230117T180517_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_20230117T180830_20230117T180845_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_20230117T181446_20230117T182416_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_20230117T182618_20230117T183332_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_20230117T183450_20230117T184134_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_20230117T184344_20230117T184838_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_20230117T185644_20230117T190004_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_20230117T191440_20230117T191839_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_20230117T191841_20230117T192255_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_20230117T192425_20230117T192739_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_20230117T200446_20230117T202042_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_20230117T202326_20230117T202807_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_20230117T202828_20230117T202952_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_20230117T203419_20230117T205737_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_20230117T205744_20230117T210132_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_20230117T213414_20230117T220025_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_20230117T220308_20230117T220708_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_20230117T220728_20230117T221052_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_20230117T221317_20230117T224051_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_20230117T224348_20230117T224532_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_20230117T230932_20230117T231152_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_20230117T231227_20230117T231736_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_20230117T231738_20230117T231839_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
	1	1

CS_OFFL_SIR_IOPM_2_20230117T231841_20230117T234004_C001	_	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230117T234141_20230117T234622_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_20230117T234627_20230117T234958_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_20230117T011807_20230117T012033_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_20230117T080536_20230117T080758_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_IOPN_2_20230117T123407_20230117T123741_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_20230117T013945_20230117T014305_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_20230117T022021_20230117T022255_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_20230117T043954_20230117T044047_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_20230117T045137_20230117T045214_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_20230117T080758_20230117T080823_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_20230117T093655_20230117T093916_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_20230117T130841_20230117T130843_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_20230117T130849_20230117T130849_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_20230117T184134_20230117T184159_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_20230117T193636_20230117T193817_C001	1	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors: 91

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20230117T004024_20230117T004138_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_20230117T011807_20230117T012033_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_20230117T013211_20230117T013305_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_20230117T032635_20230117T032715_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_20230117T044047_20230117T044143_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_20230117T044718_20230117T045137_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_20230117T053529_20230117T053659_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_20230117T060917_20230117T061245_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_20230117T062613_20230117T062726_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_20230117T064838_20230117T065318_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_20230117T074621_20230117T074834_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_20230117T080536_20230117T080758_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_20230117T080823_20230117T081007_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_20230117T081042_20230117T081055_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_20230117T093917_20230117T093935_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_20230117T094519_20230117T094955_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_20230117T095039_20230117T095201_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_20230117T095552_20230117T095800_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_20230117T103635_20230117T103927_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_20230117T112647_20230117T113245_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_20230117T120748_20230117T121132_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_20230117T123407_20230117T123741_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_20230117T123758_20230117T123936_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_20230117T125323_20230117T125356_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_20230117T125526_20230117T125616_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_20230117T125755_20230117T125856_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_20230117T130644_20230117T130810_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_20230117T143814_20230117T143906_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_20230117T152436_20230117T152833_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_20230117T153458_20230117T153605_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_20230117T161356_20230117T161558_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_20230117T175217_20230117T175604_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_20230117T181039_20230117T181446_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_20230117T185031_20230117T185644_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_20230117T192739_20230117T192901_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_20230117T193124_20230117T193159_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_20230117T193233_20230117T193635_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_20230117T202952_20230117T203311_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_20230117T211108_20230117T211458_C001	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_20230117T221053_20230117T221207_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_20230117T224532_20230117T225151_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_20230117T012115_20230117T012809_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_20230117T012810_20230117T013120_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_20230117T013945_20230117T014305_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_20230117T025956_20230117T030709_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_20230117T030710_20230117T030918_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_20230117T031140_20230117T031907_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_20230117T031926_20230117T032010_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_20230117T034743_20230117T035107_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_20230117T044143_20230117T044603_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_20230117T052447_20230117T053057_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_20230117T061940_20230117T062431_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_20230117T062432_20230117T062613_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_20230117T063401_20230117T063638_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_20230117T072119_20230117T072146_C001	Tann Barkerandi Unlaniy Pi Rivi Uli Ulia	The Ocean Altimeter Range, SSHA, SWH 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_20230117T073623_20230117T074353_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_20230117T074353_20230117T074441_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_20230117T075924_20230117T080536_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_20230117T081007_20230117T081042_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_20230117T081055_20230117T081332_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_20230117T090035_20230117T090103_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_20230117T094101_20230117T094519_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_20230117T110943_20230117T111029_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_20230117T111812_20230117T112647_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_20230117T125211_20230117T125322_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_20230117T125857_20230117T130644_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_20230117T134455_20230117T134720_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_20230117T142933_20230117T143042_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_20230117T143042_20230117T143814_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_20230117T143906_20230117T144914_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_20230117T161832_20230117T162555_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_20230117T170240_20230117T170244_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_20230117T171348_20230117T172048_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_20230117T174858_20230117T174908_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_20230117T175746_20230117T180306_C001	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_20230117T180332_20230117T180502_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_20230117T182426_20230117T182618_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_20230117T192902_20230117T193124_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_20230117T193159_20230117T193233_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_20230117T193636_20230117T193817_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_20230117T193817_20230117T194346_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_20230117T194856_20230117T194910_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_20230117T195721_20230117T200446_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_20230117T203312_20230117T203419_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_20230117T211458_20230117T212026_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_20230117T212033_20230117T212321_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_20230117T220025_20230117T220049_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_20230117T221208_20230117T221317_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_20230117T225151_20230117T230051_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_20230117T230117_20230117T230344_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_20230117T230920_20230117T230932_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

144

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.

Number of products with errors: 206

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

Number of products with errors: 66

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors: 0

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors: 0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Number of products with errors: 29

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220230116T234733_20230117T003710_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOP_220230117T003710_20230117T012648_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS OFFE SIR IOP 7 /0/3011/1012648 /0/3011/10/16/5 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_220230117T021625_20230117T030603_C001		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_220230117T030603_20230117T035539_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_220230117T035539_20230117T044517_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_220230117T044517_20230117T053454_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_220230117T053454_20230117T062432_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_220230117T062432_20230117T071408_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_220230117T071408_20230117T080347_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_220230117T080347_20230117T085323_C001	Topography (1), Total Geocentric Ocean	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_220230117T085323_20230117T094301_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_220230117T094301_20230117T103238_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_220230117T103238_20230117T112216_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_220230117T112216_20230117T121153_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_220230117T121153_20230117T130131_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_220230117T130131_20230117T135107_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_220230117T135107_20230117T144045_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_220230117T144045_20230117T153022_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_220230117T153022_20230117T162000_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_220230117T162000_20230117T170937_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_220230117T170937_20230117T175915_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_220230117T175915_20230117T184851_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_220230117T184851_20230117T193829_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_220230117T193829_20230117T202806_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_220230117T202806_20230117T211744_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_220230117T211744_20230117T220721_C001	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_220230117T220721_20230117T225659_C001		There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_220230117T225659_20230117T234635_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors:

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors:

29

Number of products with errors:

29

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors:

27

P2P Retracking Flags PLRM

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

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

Number of products with errors:

29

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	214	214	4	210	0
SIR_IOPR1B	126	105	2	103	0
SIR_IOPN1B	105	126	0	126	0
SIR_IOPM_2	214	214	152	62	0
SIR_IOPR_2	126	105	41	64	0
SIR_IOPN_2	105	126	49	75	2
SIR IOP P2P	28	28	0	26	2

7.1 QCC Errors

Number of QCC reports with errors:

10

Total number of occurrences of each error

					rotal number	or occurrences	or each error				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	2	2	2	2							

Test Description Key:						
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				

7.2 QCC Warnings

Number of QCC reports with warnings

2194

Total number of occurrences of each warning

lotal number of occurrences of each warning								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
SIR_IOPM1B	210	0	0	0	0	0	0	
SIR_IOPM_2	0	0	43	42	0	44	0	
SIR_IOPN1B	101	0	0	0	0	0	0	
SIR_IOPN_2	0	0	9	38	6	25	28	
SIR_IOPR1B	123	0	0	0	0	0	0	
SIR IOPR 2	0	2	29	50	1	21	16	

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	39	39	0	0	0	0	25
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	22	0	0	25	0	38	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	7	0	45	0	48	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	5	24	0	4	35
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	31	13	36	52	28	28
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	45	0	0	63	35	11	33

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPM1B	0	0	1	0	0	0	
SIR_IOPM_2	0	2	1	0	0	0	
SIR_IOPN1B	0	0	0	0	50	0	
SIR_IOPN_2	28	12	0	2	0	0	
SIR_IOPR1B	0	0	0	0	125	7	
SIR_IOPR_2	48	3	0	4	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOP_2_	17	28	28	7	28	18	28

	Product Type	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
	SIR_IOP_2_	18	26	23	13	28	18	24
_								
	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	-
	010 100 0	00	40	40	00			

i roddot rypo						
SIR_IOP_2_	28	19	13	28		

T	е	st	D	es	cr	ipti	on	Key
_	_	_						

Abbreviation Test name

Details

BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
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
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
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: