

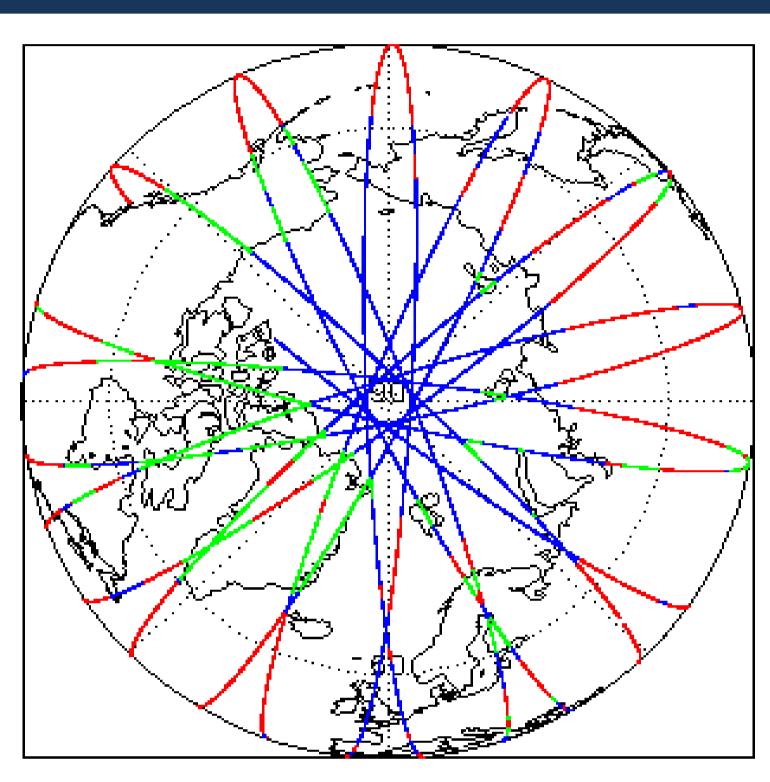
1. Overview

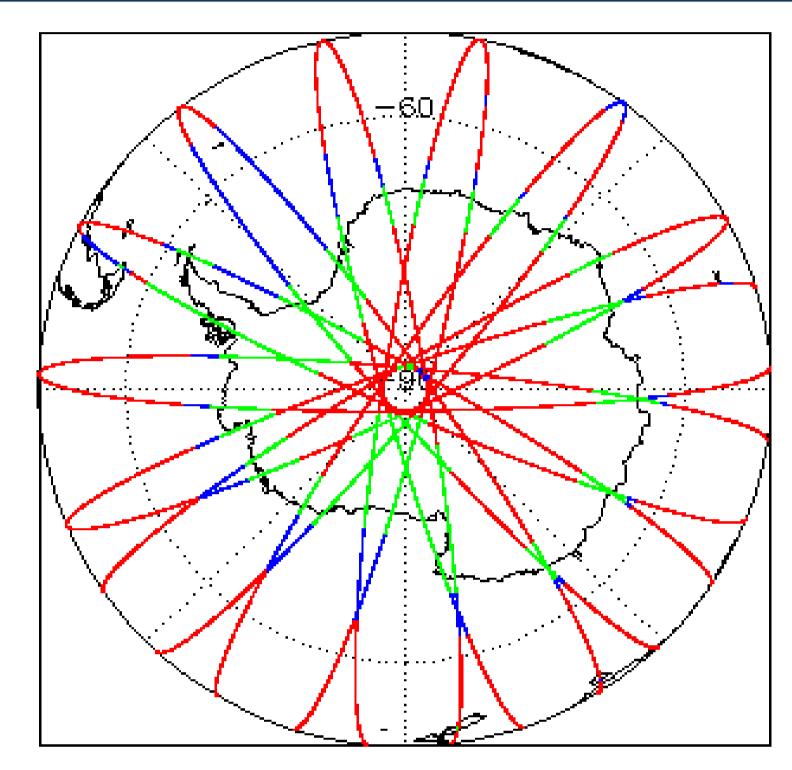
Report Production:	27-Apr-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

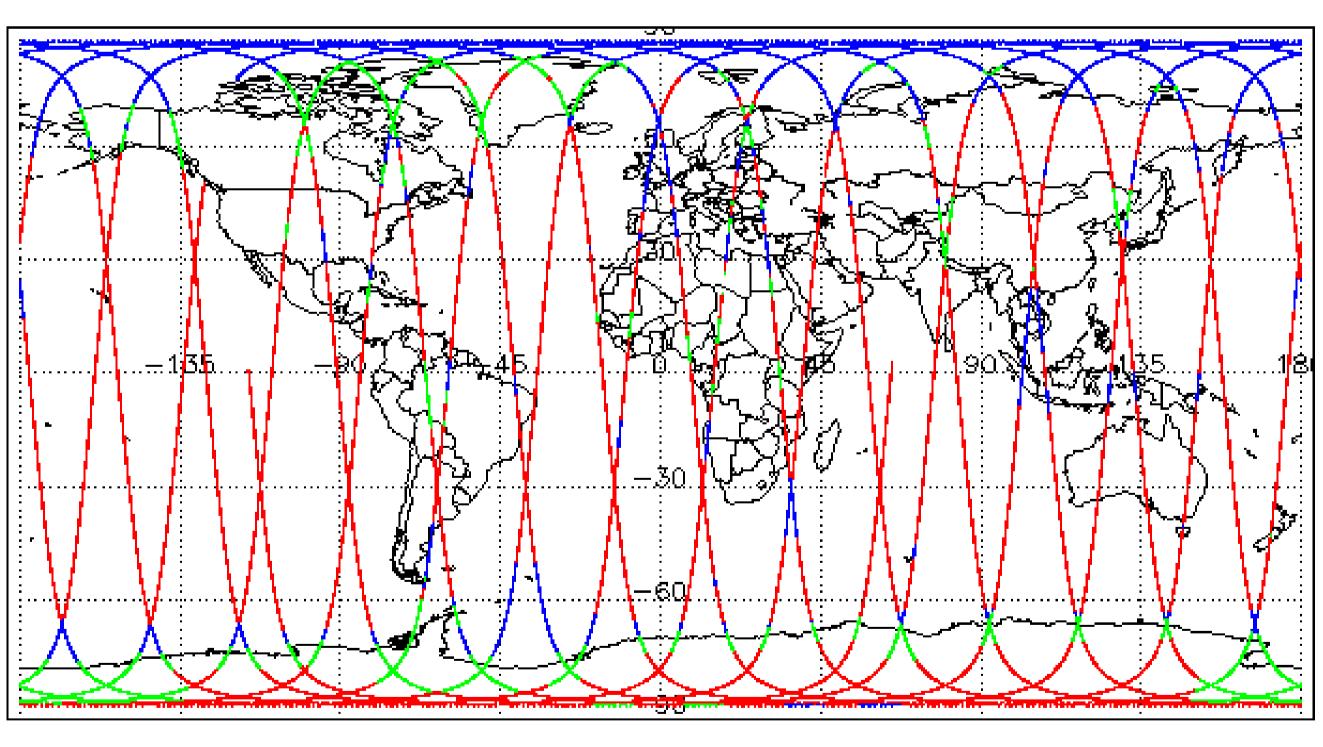
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

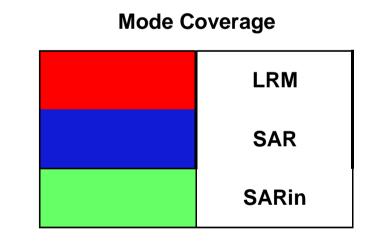
Mission / Instrument News		
19-Apr-2020	None	
20-Apr-2020	None	
21-Apr-2020 SSALTO issues from 2020-04-21 22:00:00 to 2020-04-23 14:30 caused delays on AUX/AUXI files dissemination		

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200420T181422_20200420T182227_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

14

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200420T012952_20200420T014803_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200420T182342_20200420T182957_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200420T195341_20200420T200909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200420T052400_20200420T052913_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200420T061500_20200420T061852_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200420T093313_20200420T093529_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200420T120413_20200420T120655_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200420T174139_20200420T174412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200420T202254_20200420T202422_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200420T205841_20200420T210407_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200420T093529_20200420T093617_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200420T175456_20200420T175736_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200420T210407_20200420T211107_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200420T212444_20200420T213301_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors: 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:

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5.4 L2 Auxiliary Correction Error Check

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200420T110350_20200420T110433_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200420T010534_20200420T010949_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200420T015849_20200420T020014_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200420T024710_20200420T024909_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200420T033819_20200420T033945_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200420T034458_20200420T034800_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T051824_20200420T052129_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200420T052400_20200420T052913_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T061500_20200420T061852_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200420T065837_20200420T070111_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T075346_20200420T075502_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T075707_20200420T075950_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200420T083335_20200420T083942_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T093313_20200420T093529_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T101555_20200420T101738_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T111237_20200420T111721_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T120413_20200420T120655_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T133516_20200420T133905_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T142315_20200420T142356_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200420T151455_20200420T151810_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T170229_20200420T170342_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T174139_20200420T174412_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Fauilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20200420T174601_20200420T174602_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T191840_20200420T192259_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200420T192402_20200420T192510_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T201803_20200420T202036_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T205841_20200420T210407_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records

CS_OFFL_SIR_IOPN_2_20200420T215713_20200420T220045_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T223838_20200420T224229_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20200420T233822_20200420T234004_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200420T010950_20200420T011729_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T024909_20200420T025551_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T025551_20200420T025842_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T042734_20200420T043450_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T043450_20200420T043648_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T043945_20200420T044642_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200420T060911_20200420T061346_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T061346_20200420T061500_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T072533_20200420T072736_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200420T074715_20200420T075221_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T075221_20200420T075345_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T092851_20200420T093313_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T110433_20200420T110438_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200420T110438_20200420T110700_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200420T110830_20200420T111237_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T124255_20200420T125316_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T141524_20200420T141626_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200420T142631_20200420T143418_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T161714_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T192510_20200420T193032_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T202036_20200420T202254_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20200420T210407_20200420T211107_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20200420T212444_20200420T213301_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200420T224229_20200420T224734_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200420T181422_20200420T182227_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Number of products with errors:

95

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200419T235303_20200420T001843_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_20200420T002013_20200420T002532_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_20200420T002539_20200420T002905_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_20200420T003218_20200420T010534_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_20200420T012952_20200420T014803_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_20200420T015203_20200420T015827_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_20200420T020014_20200420T020809_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_20200420T021125_20200420T024517_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_20200420T025842_20200420T025942_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_20200420T032538_20200420T033741_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_20200420T033945_20200420T034458_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_20200420T035058_20200420T041311_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_20200420T041556_20200420T042525_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_20200420T043648_20200420T043945_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_20200420T044958_20200420T045410_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_20200420T045554_20200420T050203_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_20200420T050350_20200420T051615_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_20200420T052129_20200420T052359_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_20200420T053055_20200420T060308_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_20200420T061943_20200420T065140_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_20200420T070111_20200420T070307_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_20200420T070502_20200420T070811_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_20200420T070956_20200420T072533_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_20200420T072736_20200420T073802_C001 and Backscatt	er Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Under Plage and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T074050_20200420T074715_C001 OCOG Altimet Backscatter Q	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T075502_20200420T075707_C001 OCOG Altimet Backscatter Q	er Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T075950_20200420T080157_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG er Quality, OCOG en and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T080405_20200420T081611_C001 and Backscatt	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T083237_20200420T083335_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T084242_20200420T084712_C001 OCOG Altimet Backscatter Q	er Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T084918_20200420T090359_C001 and Backscatt	er Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH 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_20200420T090538_20200420T090821_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T095100_20200420T101504_C001 and Backscatt	er Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH 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_20200420T101738_20200420T102618_C001 OCOG Altimet Backscatter Q	er Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T102846_20200420T105343_C001 and Backscatt	er Range, SSHA, SWH Er Quality, OCOG er Quality, OCOG e and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T112625_20200420T115348_C001 and Backscatt	er Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH 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_20200420T115953_20200420T120413_C001 OCOG Altimet Backscatter Q	er Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T120745_20200420T123356_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG er Quality, OCOG er and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T130051_20200420T133308_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG er Quality, OCOG er and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T133905_20200420T134452_C001 OCOG Altimet Backscatter Q	er Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T134620_20200420T135236_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG er Quality, OCOG e and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T135644_20200420T140319_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG er Quality, OCOG e and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T141431_20200420T141524_C001 OCOG Altimet Backscatter Q	er Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T142356_20200420T142445_C001 and Backscatt	er Range, SSHA, SWH Er Quality, OCOG Er Quality, OCOG Er and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T143742_20200420T151201_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T151810_20200420T152323_C001 OCOG Altimet Backscatter Q	er Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T152520_20200420T152812_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG er Quality, OCOG e and Backscatter Quality e and Backscatter Quality set for one or more records.
CS_OFFL_SIR_IOPM_2_20200420T152843_20200420T154431_C001 and Backscatt	Per Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH 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_20200420T160037_20200420T160117_C001 and Backscatt	er Range, SSHA, SWH er Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20200420T160254_20200420T160327_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_20200420T161714_20200420T162616_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_20200420T162826_20200420T164453_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_20200420T164504_20200420T165037_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_20200420T165628_20200420T165810_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_20200420T165817_20200420T170229_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_20200420T170442_20200420T172640_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_20200420T172714_20200420T173153_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_20200420T173205_20200420T173959_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_20200420T175756_20200420T181227_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_20200420T181422_20200420T182227_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_20200420T182230_20200420T182334_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_20200420T182342_20200420T182957_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_20200420T183715_20200420T183721_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_20200420T183728_20200420T183947_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_20200420T184815_20200420T190042_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_20200420T190149_20200420T191835_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_20200420T194138_20200420T195137_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_20200420T195340_20200420T200909_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_20200420T201111_20200420T201606_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_20200420T201644_20200420T201803_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_20200420T202456_20200420T203528_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_20200420T204209_20200420T205353_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_20200420T213301_20200420T214804_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_20200420T215042_20200420T215520_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_20200420T215558_20200420T215713_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_20200420T220137_20200420T222839_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_20200420T223746_20200420T223837_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_20200420T230213_20200420T232239_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_20200420T232331_20200420T232730_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_20200420T233049_20200420T233434_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_20200420T233456_20200420T233821_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_20200420T234052_20200421T000816_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_20200420T012015_20200420T012021_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_20200420T031523_20200420T031708_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_20200420T060854_20200420T060911_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_20200420T061500_20200420T061852_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_20200420T093617_20200420T093845_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_20200420T164453_20200420T164504_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_20200420T214828_20200420T215042_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_20200420T233450_20200420T233456_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_20200420T075221_20200420T075345_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_20200420T094226_20200420T094229_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_20200420T110710_20200420T110810_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_20200420T165810_20200420T165817_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_20200420T224229_20200420T224734_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200420T010534_20200420T010949_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200420T015849_20200420T020014_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_20200420T024710_20200420T024909_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_20200420T030126_20200420T030250_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_20200420T045410_20200420T045554_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_20200420T052400_20200420T052913_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_20200420T061500_20200420T061852_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_20200420T065837_20200420T070111_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_20200420T073802_20200420T074050_C001	The second secon	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200420T075707_20200420T075950_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_20200420T083155_20200420T083213_C001	TAITIMETER Range and Backscatter Chality	The Ocean Altimeter Range, SSHA, SWH 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_20200420T083335_20200420T083942_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_20200420T092833_20200420T092851_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_20200420T093313_20200420T093529_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_20200420T093617_20200420T093845_C001	TAITIMETER Range and Backscatter Citality	The Ocean Altimeter Range, SSHA, SWH 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_20200420T094103_20200420T094226_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_20200420T101555_20200420T101738_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_20200420T105652_20200420T105808_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_20200420T111237_20200420T111721_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_20200420T111811_20200420T111933_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_20200420T115532_20200420T115705_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_20200420T115837_20200420T115952_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_20200420T120413_20200420T120655_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_20200420T133516_20200420T133905_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_20200420T141010_20200420T141116_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_20200420T142055_20200420T142217_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_20200420T142315_20200420T142356_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_20200420T142546_20200420T142631_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_20200420T143418_20200420T143532_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_20200420T143614_20200420T143742_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_20200420T152323_20200420T152441_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_20200420T160553_20200420T160621_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_20200420T164453_20200420T164504_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_20200420T165212_20200420T165628_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_20200420T183020_20200420T183144_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_20200420T191840_20200420T192259_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_20200420T192402_20200420T192510_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_20200420T202254_20200420T202422_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_20200420T203728_20200420T204209_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_20200420T205841_20200420T210407_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_20200420T223623_20200420T223746_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_20200420T232821_20200420T233049_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_20200420T003029_20200420T003217_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_20200420T010950_20200420T011729_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_20200420T012022_20200420T012225_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_20200420T024522_20200420T024526_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_20200420T024909_20200420T025551_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_20200420T030053_20200420T030126_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_20200420T042734_20200420T043450_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_20200420T043450_20200420T043648_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_20200420T043945_20200420T044642_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_20200420T052913_20200420T053055_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_20200420T060727_20200420T060854_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_20200420T060911_20200420T061346_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_20200420T061346_20200420T061500_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.

Part	CS_OFFL_SIR_IOPR_2_20200420T065140_20200420T065836_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
Company Comp	CS_OFFL_SIR_IOPR_2_20200420T072533_20200420T072736_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
COUNT SMILTON 2. 2000020117977 (INTERCENTIONAL COUNT) COUNT SMILTON 2. 2000020117977 (INTERCENTIONAL COUNT) COUNT A SMILTON 2. 20000201179777 (INTE	CS_OFFL_SIR_IOPR_2_20200420T074715_20200420T075221_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_BIR_OFC_2_2000_2010308_2000302110208_C001 Does Afferder Norge_Biller All (Mode)	CS_OFFL_SIR_IOPR_2_20200420T075221_20200420T075345_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
6. OFFL. SIR. JOPR. 2. 2000420T100349. 20001420T16194. COID OCID A Priets Range Casilly PLRM. OCID BASSIAN CONTROL OF CASILLY PLRM. OCID A Priets Range Casilly PLRM. OCID B PLRM. OCID A Priets Range Casilly PLRM. OCID B PLRM.	CS_OFFL_SIR_IOPR_2_20200420T081611_20200420T081823_C001	OCOG Altimeter Range Quality PLRM,	
COC Backwards Cally Constitution of The Cock Attract Range and Section of Cally PTEN COC Attract Range and Se	CS_OFFL_SIR_IOPR_2_20200420T090359_20200420T090538_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
So OFFL SIR IOPR 2 20200420T193543 2000420T193517.CO11 OS OFFL SIR IOPR 2 20200420T193552 2000420T193517.CO11 OS OFFL SIR IOPR 2 20200420T193553 2000420T193517.CO11 OS OFFL SIR IOPR 2 20200420T193517.CO11 OS OFFL SIR IO	CS_OFFL_SIR_IOPR_2_20200420T090846_20200420T091248_C001		
GS_OFFL_SIR_JOPR_2_2000420710939_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207109395_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207109395_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207109395_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207109395_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207109395_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207109395_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207109395_20004207109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110939_200042071109419_C001 CS_OFFL_SIR_JOPR_2_20004207110940_C0010410419_C001 CS_OFFL_SIR_JOPR_2_20004207110940_C0010410419_C0010410419_C0010410419_C0010410419_C0010410419_C00	CS_OFFL_SIR_IOPR_2_20200420T092851_20200420T093313_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Resiscator Quality The Ocean Attimeter Range, SSIA, SWH and Backscatter Quality Flags have been set for one or more mozorts. CS_OFFL_SIR_IOPR_2_20200420T10780_20200420T10810_C001 CS_OFFL_SIR_IOPR_2_20200420T10780_20200420T110810_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T110810_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T110810_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T110810_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T10810_C001 CS_OFFL_SIR_IOPR_2_20200420T124295_20200420T10830_C001 CS_OFFL_SIR_IOPR_2_20200420T124295_20200420T13315 C001 CS_OFFL_SIR_IOPR_2_20200420T133300_20200420T13315 C001 CS_OFFL_SIR_IOPR_2_20200420T142831_20200420T13315 C001 CS_OFFL_SIR_IOPR_2_20200420T1320T1_20200420T13315 C0	CS_OFFL_SIR_IOPR_2_20200420T093529_20200420T093617_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20000420T102789_20200420T10881_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T10881_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T10881_CO01 CS_OFFL_SIR_IOPR_2_20000420T10710_20200420T110110_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T10881_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T10881_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T10881_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T10881_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T128316_CO01 CS_OFFL_SIR_IOPR_2_20000420T108808_20200420T128316_CO01 CS_OFFL_SIR_IOPR_2_20000420T133388_20200420T128316_CO01 CS_OFFL_SIR_IOPR_2_20000420T133388_20200420T133316_CO01 CS_OFFL_SIR_IOPR_2_20000420T133388_20200420T133316_CO01 CS_OFFL_SIR_IOPR_2_20000420T14149_20200420T141431_CO01 CS_OFFL_SIR_IOPR_2_20000420T141481_20200420T143316_CO01 CS_OFFL_SIR_IOPR_2_20000420T141481_CO01 CS_OFFL_SIR_IOPR_2_20000420T141481_CO01 CS_OFFL_SIR_IOPR_2_20000420T141481_CO01 CS_OFFL_SIR_IOPR_2_20000420T148831_20200420T143316_CO01 CS_OFFL_SIR_IOPR_2_20000420T148831_20200420T143316_CO01 CS_OFFL_SIR_IOPR_2_20000420T148831_20200420T143316_CO01 CS_OFFL_SIR_IOPR_2_20000420T148831_20200420T143316_CO01 CS_OFFL_SIR_IOPR_2_20000420T148831_20200420T143316_CO01 CS_OFFL_SIR_IOPR_2_20000420T148831_20200420T163416_CO01 CS_OFFL_SIR_IOPR_2_20000420T168849_20200420T163416_CO01 CS_OFFL_SIR_IOPR_2_20000420T168849_20200420T165708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168849_20200420T165708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168849_20200420T165708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T1658708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T1658708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T1658708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T1658708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T1658708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T1658708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T1658708_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T165850_CO01 CS_OFFL_SIR_IOPR_2_20000420T168810_20200420T	CS_OFFL_SIR_IOPR_2_20200420T093845_20200420T094103_C001	•	, ,
CS_OFFL_SIR_IOPR_2_20200420T110830_20200420T110831_C001 CS_OFFL_SIR_IOPR_2_20200420T110830_20200420T111287_C001 CS_OFFL_SIR_IOPR_2_20200420T110830_20200420T11287_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T11287_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T11287_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T1128316_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T1128316_C001 CS_OFFL_SIR_IOPR_2_20200420T10830_20200420T133355_C001 CS_OFFL_SIR_IOPR_2_20200420T1441449_20200420T144311_C001 CS_OFFL_SIR_IOPR_2_20200420T141449_20200420T144311_C001 CS_OFFL_SIR_IOPR_2_20200420T142831_20200420T144311_C001 CS_OFFL_SIR_IOPR_2_20200420T142831_20200420T151505_C001 CS_OFFL_SIR_IOPR_2_20200420T142831_20200420T151505_C001 CS_OFFL_SIR_IOPR_2_20200420T15120_20200420T151505_C001 CS_OFFL_SIR_IOPR_2_20200420T15120_20200420T151505_C001 CS_OFFL_SIR_IOPR_2_20200420T15120_20200420T151505_C001 CS_OFFL_SIR_IOPR_2_20200420T15120_20200420T151505_C001 CS_OFFL_SIR_IOPR_2_20200420T150050_2000420T150050_C001 CS_OFFL_SIR_IOPR_2_202	CS_OFFL_SIR_IOPR_2_20200420T102759_20200420T102845_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscater Quality FLRM COCG Altimeter Range and Backscater Quality Flags have been set for one or more records. CS OFFL SIR IOPR 2 20200420T10830 20200420T14237 C001 CS_OFFL_SIR_IOPR_2 20200420T10830 20200420T14237 C001 CS_OFFL_SIR_IOPR_2 20200420T10830 20200420T142318_C001 CS_OFFL_SIR_IOPR_2 20200420T10830 20200420T142318_C001 CS_OFFL_SIR_IOPR_2 20200420T10830 20200420T142318_C001 CS_OFFL_SIR_IOPR_2 20200420T10830 20200420T143318_C001 CS_OFFL_SIR_IOPR_2 20200420T10830 20200420T143318_C001 CS_OFFL_SIR_IOPR_2 20200420T13330 20200420T133515_C001 CS_OFFL_SIR_IOPR_2 20200420T144414 20200420T14431 C001 CS_OFFL_SIR_IOPR_2 20200420T142631_20200420T14431 C001 CS_OFFL_SIR_IOPR_2 20200420T142631_20200420T14431 C001 CS_OFFL_SIR_IOPR_2 20200420T15201_20200420T1555_C001 CS_OFFL_SIR_IOPR_2 20200420T15201_20200420T1555_C001 CS_OFFL_SIR_IOPR_2 20200420T15201_20200420T1555_C001 CS_OFFL_SIR_IOPR_2 20200420T155649_20200420T155708_C001 CS_OFFL_SIR_IOPR_2 20200420T156649_20200420T16653_C001 CS_OFFL_SIR_IOPR_2 20200420T160621_20200420T16559_C001 CS_OFFL_SIR_IOPR_2 20200420T160621_20200420T16559_C001 CS_OFFL_SIR_IOPR_2 20200420T160621_20200420T16559_C001 CS_OFFL_SIR_IOPR_2 20200420T160621_20200420T16559_C001 CS_OFFL_SIR_IOPR_2 20200420T160621_20200420T16653_C001 CS_OFFL_SIR_IOPR_2 20200420T160621_20200420T16559_C001 CS_OFFL_SIR_IOPR_2 20200420T166	CS_OFFL_SIR_IOPR_2_20200420T105808_20200420T105831_C001		
CS_OFFL_SIR_IOPR_2_20200420T110830_20200420T1123T_C001 Allmeter Range and Backscatter Cuality PERM COG Allmeter Range and Backscatter Cuality Piags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T124255_20200420T133515_C001 CS_OFFL_SIR_IOPR_2_20200420T133308_20200420T133515_C001 CS_OFFL_SIR_IOPR_2_20200420T133308_20200420T133515_C001 CS_OFFL_SIR_IOPR_2_20200420T133308_20200420T133515_C001 CS_OFFL_SIR_IOPR_2_20200420T133308_20200420T133515_C001 CS_OFFL_SIR_IOPR_2_20200420T141431 C001 CS_OFFL_SIR_IOPR_2_20200420T142831_20200420T143418_C001 CS_OFFL_SIR_IOPR_2_20200420T15201_20200420T15455_C001 CS_OFFL_SIR_IOPR_2_20200420T15201_20200420T15455_C001 CS_OFFL_SIR_IOPR_2_20200420T15504_20200420T155706_C001 CS_OFFL_SIR_IOPR_2_20200420T15604_20200420T155706_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CCCG_Altimeter Range_ASHA_SWH and Backscatter Quality Piags have been set for one or more records. CCCG_Altimeter Range_ASHA_SWH and Backscatter Quality Piags have been set for one or more records. CCCG_Altimeter Range_ASHA_SWH and Backscatter Quality Piags have been set for one or more records. CCCG_Altimeter Range_ASHA_SWH and Backscatter Quality Piags have been set for one or more records. CCCG_Altimeter Range_ASHA_SWH and Backscatter Quality Piags have been set for one or more records. CCCG_Altimeter Range_ASHA_SWH and Backscatter Quality Piags have been set for one or more records. CCCG_Altimeter Range_ASHA_SWH and Backscatter Quality Piags have been set for one	CS_OFFL_SIR_IOPR_2_20200420T110710_20200420T110810_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOB Altimeter Range and Backscatter Quality PLRM, OCOB CS_OFFL_SIR_IOPR_2_20200420T133308_20200420T133515_C001 CS_OFFL_SIR_IOPR_2_20200420T141149_20200420T141431_C001 CS_OFFL_SIR_IOPR_2_20200420T141149_20200420T141431_C001 CS_OFFL_SIR_IOPR_2_20200420T141149_20200420T143418_C001 CS_OFFL_SIR_IOPR_2_20200420T14151201_20200420T155706_C001 CS_OFFL_SIR_IOPR_2_20200420T155649_20200420T155706_C001 CS_OFFL_SIR_IOPR_2_20200420T16032T_20200420T16553_C001 CS_OFFL_SIR_IOPR_2_20200420T160521_20200420T165517_C001 CS_OFFL_SIR_IOPR_2_20200420T160521_20200420T165517_C001 CS_OFFL_SIR_IOPR_2_20200420T160521_20200420T165617_C001 CS_OFFL_SIR_IOPR_2_20200420T160521_20200420T165617_C001 CS_OFFL_SIR_IOPR_2_20200420T160521_20200420T165617_C001 CS_OFFL_SIR_IOPR_2_20200420T160521_20200420T16553_C001 CS_OFFL_SIR_IOPR_2_20200420T160521_20200420T165517_C001 COGR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T160512_20200420T165517_C001 COGR Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T165610_20200420T165517_C001 COGR Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T165610_20200420T165517_C001 COGR Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T165610_20200420T1	CS_OFFL_SIR_IOPR_2_20200420T110830_20200420T111237_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20200420T142631_20200420T143418_C001 CS_OFFL_SIR_IOPR_2_20200420T142631_20200420T143418_C001 CS_OFFL_SIR_IOPR_2_20200420T142631_20200420T143418_C001 CS_OFFL_SIR_IOPR_2_20200420T155649_20200420T16156_C001 CS_OFFL_SIR_IOPR_2_20200420T166621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T166810_20200420T165817_C001 CCG_Altimeter Range_CSHA_SWH and Backscatter Quality PLRM, COGG Altimeter Range and Backscatte	CS_OFFL_SIR_IOPR_2_20200420T124255_20200420T125316_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20200420T142631_20200420T143418_C001 CS_OFFL_SIR_IOPR_2_20200420T142631_20200420T143418_C001 CS_OFFL_SIR_IOPR_2_20200420T151201_20200420T151455_C001 CS_OFFL_SIR_IOPR_2_20200420T151201_20200420T151455_C001 CS_OFFL_SIR_IOPR_2_20200420T156649_20200420T155706_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T16714_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C	CS_OFFL_SIR_IOPR_2_20200420T133308_20200420T133515_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T155649_20200420T155706_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T16714_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T166810_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T166810_20200420T165817_C001 COCG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T166810_20200420T165817_C001 COCG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T166810_20200420T165817_C001 COCG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 COCG Altimeter Range Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20200420T141149_20200420T141431_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T155649_20200420T155706_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165810_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T160714_C001 CS_OFFL_SIR_IOPR_2_20200420T16071607160714_C001 CS_OFFL_SIR_IOPR_2_20200420T1607174602_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T1607174602_20200420T176339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T176339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T176339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T176339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T176339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T176339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T176339_C001	CS_OFFL_SIR_IOPR_2_20200420T142631_20200420T143418_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20200420T155349_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T161714_C001 CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 OCOG Backscatter Quality PLRM OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20200420T151201_20200420T151455_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T161714_C001 CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20200420T155649_20200420T155706_C001		
CS_OFFL_SIR_IOPR_2_20200420T160621_20200420T161714_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 Interior Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPR_2_20200420T160327_20200420T160553_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C001 OCOG Backscatter Quality OCOG Backscatter Quality More records. Ocog Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags 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_20200420T160621_20200420T161714_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and backscatter Quality Flags	CS_OFFL_SIR_IOPR_2_20200420T165810_20200420T165817_C001		
	CS_OFFL_SIR_IOPR_2_20200420T174602_20200420T175339_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors: 62

L2 Retracking Flags (20Hz, PLRM)

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

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

152

0

Number of products with errors:

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors: 0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors: 0

6.4 P2P Auxiliary Correction Error Check

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220200420T002546_20200420T011521_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_220200420T011521_20200420T020500_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_220200420T020500_20200420T025435_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_220200420T025435_20200420T034414_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_220200420T034414_20200420T043349_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_220200420T043349_20200420T052327_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_220200420T052327_20200420T061302_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_220200420T061302_20200420T070241_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_220200420T070241_20200420T075216_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_220200420T075216_20200420T084154_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_220200420T084154_20200420T093129_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_220200420T093129_20200420T102108_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_220200420T102108_20200420T111043_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_220200420T111043_20200420T120021_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_220200420T120021_20200420T124956_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

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CS_OFFL_SIR_IOP_220200420T124956_20200420T133935_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_220200420T133935_20200420T142910_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_220200420T142910_20200420T151849_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_220200420T151849_20200420T160824_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_220200420T160824_20200420T165802_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_220200420T165802_20200420T174737_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	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_220200420T174737_20200420T183716_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_220200420T183716_20200420T192651_C001		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_220200420T192651_20200420T201629_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_220200420T201629_20200420T210604_C001		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_220200420T210604_20200420T215543_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_220200420T215543_20200420T224518_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_220200420T224518_20200420T233457_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_220200420T233457_20200421T002431_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

ProductTest FailedDescriptionCS_OFFL_SIR_IOP_2_20200420T174737_20200420T183716_C001Power scaling errorThere is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 30

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 29

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 29

P2P Retracking Flags PLRM

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

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

Number of products with errors:

30