

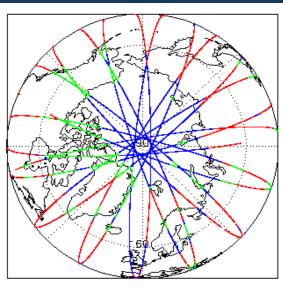
1. Overview

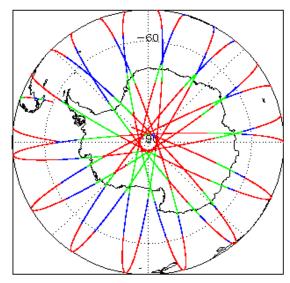
Report Production:	10-Nov-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP)	

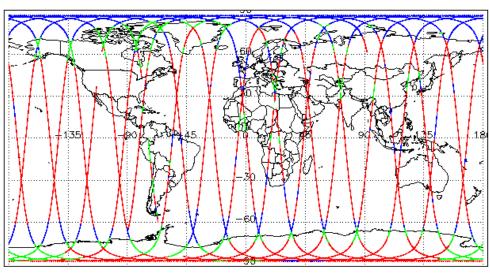
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2

Mission / Instru	ment News
06-Nov-2020	None
07-Nov-2020	None
08-Nov-2020	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

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

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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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_20201107T043202_20201107T043932_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.

19

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20201107T083217_20201107T084403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20201107T101839_20201107T102905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201107T000924_20201107T001517_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201107T082111_20201107T082220_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201107T095919_20201107T100051_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201107T113504_20201107T114016_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201107T141441_20201107T141601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201107T155350_20201107T155502_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20201107T222002_20201107T222535_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T032220_20201107T033135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T044938_20201107T045020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T054729_20201107T055104_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T060103_20201107T060511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T063501_20201107T063920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T114016_20201107T114621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T165535_20201107T165608_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T171132_20201107T171430_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T195447_20201107T195930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20201107T213248_20201107T213812_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:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors: 53

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201107T020218_20201107T020344_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20201107T065050_20201107T071332_C001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPM_2_20201107T132738_20201107T132836_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_20201107T000924_20201107T001517_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_20201107T005212_20201107T005401_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_20201107T010212_20201107T010437_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_20201107T014937_20201107T015344_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_20201107T023141_20201107T023323_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_20201107T033135_20201107T033549_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_20201107T041149_20201107T041521_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_20201107T045020_20201107T045156_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_20201107T055104_20201107T055425_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_20201107T055939_20201107T060103_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_20201107T064148_20201107T064311_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_20201107T073840_20201107T073949_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_20201107T082111_20201107T082220_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_20201107T091543_20201107T091737_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_20201107T095919_20201107T100051_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_20201107T100051_20201107T100136_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_20201107T113504_20201107T114016_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_20201107T123410_20201107T123648_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_20201107T131459_20201107T131839_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_20201107T172355_20201107T172520_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_20201107T173038_20201107T173344_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_20201107T190340_20201107T190642_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_20201107T190939_20201107T191319_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_20201107T200510_20201107T200557_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_20201107T204418_20201107T204653_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_20201107T213927_20201107T214047_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_20201107T222002_20201107T222535_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_20201107T231901_20201107T232110_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_20201107T000308_20201107T000924_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_20201107T014446_20201107T014937_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_20201107T032220_20201107T033135_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_20201107T050236_20201107T051030_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_20201107T064311_20201107T065050_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_20201107T082220_20201107T082935_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_20201107T093705_20201107T093919_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_IOPR_2_20201107T100136_20201107T100829_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_20201107T114016_20201107T114621_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_20201107T131839_20201107T132738_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_20201107T145533_20201107T150311_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_20201107T163504_20201107T164132_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_20201107T164132_20201107T164413_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_20201107T181321_20201107T182032_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_20201107T182032_20201107T182213_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_20201107T183134_20201107T183225_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_20201107T195447_20201107T195930_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_20201107T195930_20201107T200049_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_20201107T213248_20201107T213812_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_20201107T213812_20201107T213927_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_20201107T231449_20201107T231533_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_20201107T231533_20201107T231901_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201107T043202_20201107T043932_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:

86

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20201107T001544_20201107T001624_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.

CQ_OFFL_SR_ION_2_2001107100109_2001107100109_C001 OPFL_SR_ION_2_2001107100109_2001107100200_C001 OPFL_SR_ION_2_2001107100109_2001107100200_C001 OPFL_SR_ION_2_2001107100010_2001107100200_C001 OPFL_SR_ION_2_2001107100010_2001107100010_C001 OPFL_SR_ION_2_2001107100010_C001 OPFL_SR_ION_2_2001107100010_C001107100010_C001 OPFL_SR_ION_2_2001107100010_C001107100010_C001 OPFL_SR_ION_2_2001107100010_C001107100010_C001 OPFL_SR_ION_2_2001107100010_C001107100010_C001 OPFL_SR_ION_2_2001107100010_C001107100010_C001 OPFL_SR_ION_2_2001107100010_C001107100010_C001 OPFL_SR_ION_2_2001107100010_C001107100010000000000	CS_OFFL_SIR_IOPM_2_20201107T001641_20201107T005022_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 SR IGM 2 282016TT02018 202018TT0204 C0 201 Co	CS_OFFL_SIR_IOPM_2_20201107T005636_20201107T010212_C001		
CRI_DEFI_SR_QENU_2_20201107100304_2001107102034_2001 Over Allinet Reging SRM_CRIM CRIMINET Reging and Reduction Coulty Flags have been and cell-state of the part of the country of the c	CS_OFFL_SIR_IOPM_2_20201107T010618_20201107T012959_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. OFFL. SRI, IDML 2. 20011071023032, 200110710303032, 2001107	CS_OFFL_SIR_IOPM_2_20201107T020218_20201107T020344_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
So. OFFL. SRI, DOM. 2, 20201107102532, 20001197132530, COOI CRO, OFFL. SRI, DOM. 2, 20201107100531, 20001197132636, COOI CRO, OFFL. SRI, DOM. 2, 20201107100531, 20001197133220, COOI CRO, OFFL. SRI, DOM. 2, 20201107100541, 20001197130220, COOI CRO, OFFL. SRI, DOM. 2, 20201107100541, 20001197130220, COOI CRO, OFFL. SRI, DOM. 2, 20201107100542, 20001197130200, COOI CRO, OFFL. SRI, DOM. 2, 20201107100404, 20001197130200, COOI CRO, OFFL. SRI, DOM. 2, 20201107100409, COOI 19071000000, COOI CRO, OFFL. SRI, DOM. 2, 20201107100409, COOI 190710000000, COOI CRO, OFFL. SRI, DOM. 2, 20201107100409, COOI 190710000000, COOI CRO, OFFL. SRI, DOM. 2, 20201107100409, COOI 190710000000, COOI CRO, OFFL. SRI, DOM. 2, 20201107100409, COOI 190710000000, COOI CRO, OFFL. SRI, DOM. 2, 20201107100409, COOI 190710000000, COOI CRO, OFFL. SRI, DOM. 2, 20201107100409, COOI 190710000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20201107T020346_20201107T022843_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Saccester Caulty Care Cort Cort Cort Cort Cort Cort Cort Cort	CS_OFFL_SIR_IOPM_2_20201107T023323_20201107T023430_C001		
CB_OFFL_SRIL_OPML2_202011077032402_202011077032402_20201 CB_OFFL_SRIL_OPML2_20201107703240	CS_OFFL_SIR_IOPM_2_20201107T023611_20201107T024051_C001		, ,
and Backscatter Quality, COCG. Allineted Range and Discharge Steph. Steph. CS_OFFL_SIR_JOPN.2_20201107T042542_0001107T040711_0001 CS_OFFL_SIR_JOPN.2_20201107T041521_20201107T040542_0001 CS_OFFL_SIR_JOPN.2_20201107T041521_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T041521_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T041542_0001107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T042542_0001 CS_OFFL_SIR_JOPN.2_20201107T045432_0001 CS_OFFL_SIR_JOPN.2_20201107T045432_0001 CS_OFFL_SIR_JOPN.2_20201107T054724_0001 CS_OFFL_SIR_JOPN.2_20201107T055472_0001 CS_OFFL_SIR_JOPN.2_20201107T05540_0001 CS_OFFL_SIR_JOPN.2_20201107T055201_0001 CS_OFFL_SIR_JOPN.2_20201107T055201_0001 CS_OFFL_SIR_JOPN.2_20201107T055201_0001 CS_OFFL_	CS_OFFL_SIR_IOPM_2_20201107T024530_20201107T030426_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGO Allmeter Range and Backscatter Quality Flags have been Allmeter Range and Backscatter Quality Flags have been set for one or more record. CS_OFFL_SIR_JOPM_2_20201107T041921_20201107T042942_C001 CS_OFFL_SIR_JOPM_2_20201107T045949_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T045949_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T064594_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T064594_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T064594_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T064594_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T064594_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T064594_20201107T060395_C001 CS_OFFL_SIR_JOPM_2_20201107T064595_20201107T069192_C001 CS_OFFL_SIR_JOPM_2_20201107T064595_20201107T069192_C001 CS_OFFL_SIR_JOPM_2_20201107T064595_20201107T069192_C001 CS_OFFL_SIR_JOPM_2_20201107T064595_20201107T069192_C001 CS_OFFL_SIR_JOPM_2_20201107T064595_20201107T069192_C001 CS_OFFL_SIR_JOPM_2_20201107T064595_20201107T069192_C001 CS_OFFL_SIR_JOPM_2_20201107T069192_20201107T069192_C001 CS_OFFL_SIR_JOPM_2_20201107T069193_C001 CS_OFFL_SIR_JOPM_2_20201107T069193_C001 CS_OFFL_SIR_JOPM_2_20201107T069193_C001 CS_OFFL_SIR_JOPM_2_20201107T069193_C001 CS_OFFL_SIR_JOPM_2_20201107T069193_C001 CS_OFFL_SIR_JOPM_2_20201107T079344C001 CS_OFFL_SIR_JOPM_2_20201107T079344C001 CS_OFFL_SIR_JOPM_2_20201107T07934420201107T079344C001 CS_OFFL_SIR_JOPM_2_20201107T07934420201107T079344C001 CS_OFFL_SIR_JOPM_2_20201107T07934420201107T079344C001 CS_OFFL_SIR_JOPM_2_20201107T07934420201107T089042C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107T080451C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107T080451C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107T080451C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107T080451C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107T080451C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107T080451C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107T080451C001 CCS_OFFL_SIR_JOPM_2_20201107T080454_20201107	CS_OFFL_SIR_IOPM_2_20201107T032000_20201107T032220_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sackscatter Quality CS_OFFL_SIR_JOPM_2_20201107T042445_20201107T054242_C001 Ocean Altimeter Range as SHA, SWH and Backscatter Quality Flags have been set for one more records. CS_OFFL_SIR_JOPM_2_20201107T05435_20201107T002122_C001 Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one more records. CS_OFFL_SIR_JOPM_2_20201107T008051_20201107T002122_C001 Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one more records. CS_OFFL_SIR_JOPM_2_20201107T008050_20201107T071332_C001 Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one more records and backscatter Quality Flags have been set for one more records and backscatter Quality Flags have been set for one more records and backscatter Quality Flags have been set for one more records. CS_OFFL_SIR_JOPM_2_20201107T07444_20201107T073440_C001107T07444_20201107T073440_C001107T07444_20201107T073440_C001107T074440_C00110	CS_OFFL_SIR_IOPM_2_20201107T033549_20201107T040711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been Affinder Range and Backscatter Quality Range Ra	CS_OFFL_SIR_IOPM_2_20201107T041521_20201107T042054_C001		
and Backscatter Quality, COGS Allimeter Range and Backscatter Quality ES_OFFL_SIR_IOPM_2_20201107T051435_20201107T054729_C001 CS_OFFL_SIR_IOPM_2_20201107T051435_20201107T054729_C001 CS_OFFL_SIR_IOPM_2_20201107T051435_20201107T054729_C001 CS_OFFL_SIR_IOPM_2_20201107T051435_20201107T054729_C001 CS_OFFL_SIR_IOPM_2_20201107T055425_20201107T055939_C001 CS_OFFL_SIR_IOPM_2_20201107T055425_20201107T055939_C001 CS_OFFL_SIR_IOPM_2_20201107T060511_20201107T062122_C001 Allimeter Range and Backscatter Quality, COGS Allimeter Ran	CS_OFFL_SIR_IOPM_2_20201107T042445_20201107T042842_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T056425_20201107T055939_CO01 CS_OFFL_SIR_IOPM_2_20201107T066425_20201107T065939_CO01 CS_OFFL_SIR_IOPM_2_20201107T06611_20201107T062122_CO01 CS_OFFL_SIR_IOPM_2_20201107T060511_20201107T062122_CO01 CS_OFFL_SIR_IOPM_2_20201107T060511_20201107T0702122_CO01 CS_OFFL_SIR_IOPM_2_20201107T060501_20201107T071332_CO01 CS_OFFL_SIR_IOPM_2_20201107T060501_20201107T071332_CO01 CS_OFFL_SIR_IOPM_2_20201107T060501_20201107T071332_CO01 CS_OFFL_SIR_IOPM_2_20201107T071429_20201107T072514_CO01 CS_OFFL_SIR_IOPM_2_20201107T071429_20201107T072544_CO01 CS_OFFL_SIR_IOPM_2_20201107T073444_20201107T073840_CO01 CS_OFFL_SIR_IOPM_2_20201107T073440_20201107T0780942_CO01 CS_OFFL_SIR_IOPM_2_20201107T073440_20201107T0780942_CO01 CS_OFFL_SIR_IOPM_2_20201107T073400_20201107T080942_CO01 CS_OFFL_SIR_IOPM_2_20201107T080959_20201107T081711_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T080942_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T080942_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T081711_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T081711_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T081711_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T081711_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T081708201_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T08444_20201107T085201_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T084403_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T084403_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T084403_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T085001_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T085001_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T085001_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T085001_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T0840403_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T085001_CO01 CS_OFFL_SIR_IOPM_2_20201107T081201_20201107T0840403_CO01 CS_OFFL_SIR_IOPM_2_20201107T085001_20201107T	CS_OFFL_SIR_IOPM_2_20201107T045949_20201107T050236_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_IOPM_2_20201107T08051_20201107T082122_C001 Cs_OFFL_SIR_IOPM_2_20201107T080511_20201107T082122_C001 Cs_OFFL_SIR_IOPM_2_20201107T080502_0201107T07332_C001 Cs_OFFL_SIR_IOPM_2_20201107T07429_20201107T07332_C001 Cs_OFFL_SIR_IOPM_2_20201107T07429_20201107T07332_C001 Cs_OFFL_SIR_IOPM_2_20201107T07429_20201107T07332_C001 Cs_OFFL_SIR_IOPM_2_20201107T07429_20201107T07344_C001 Cs_OFFL_SIR_IOPM_2_20201107T07344_20201107T07340_C001 Cs_OFFL_SIR_IOPM_2_20201107T07344_20201107T07340_C001 Cs_OFFL_SIR_IOPM_2_20201107T07344_20201107T080942_C001 Cs_OFFL_SIR_IOPM_2_20201107T073480_20201107T08171_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T081711_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T081711_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T084403_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08402_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08402_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08402_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08403_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08403_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08403_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08403_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08403_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08403_C001 Cs_OFFL_SIR_IOPM_2_20201107T081829_20201107T08403_C001 Cs_OFFL_SIR_IOPM_2_20201107T0818444_20201107T085011_C001 Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085011_C001 Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085011_C001 Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085011_C001 Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085011_C001 Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085011_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085211_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085211_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T08521_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T08521_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T08521_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T08521_C001 Cs_	CS_OFFL_SIR_IOPM_2_20201107T051435_20201107T054729_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Coan Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL	CS_OFFL_SIR_IOPM_2_20201107T055425_20201107T055939_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality plags have been Altimeter Range and Backscatter Quality plags have been Altimeter Range and Backscatter Quality plags and the OCOG Altimeter Range	CS_OFFL_SIR_IOPM_2_20201107T060511_20201107T062122_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range. SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T073444_20201107T080942_C001 CS_OFFL_SIR_IOPM_2_20201107T080959_20201107T081711_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T084403_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T0884844_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T08804403_C001 CS_OFFL_SIR_IOPM_2_20201107T0884844_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T080019_20201107T085001_C001 CS_OFFL_SIR_	CS_OFFL_SIR_IOPM_2_20201107T065050_20201107T071332_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201107T074340_20201107T080942_C001 CS_OFFL_SIR_IOPM_2_20201107T080942_C001 CS_OFFL_SIR_IOPM_2_20201107T080959_20201107T080942_C001 CS_OFFL_SIR_IOPM_2_20201107T080959_20201107T081711_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T081711_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085030_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085300_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085300_20201107T08	CS_OFFL_SIR_IOPM_2_20201107T071429_20201107T072614_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T081959_20201107T081711_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T085011_C001 CS_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085330_20201107T080557_C001 and Backscatter Quality set one or more records. Decan Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCCI Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CC_OEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 CC_OEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OEAN Altimeter Range, SSHA, SWH and	CS_OFFL_SIR_IOPM_2_20201107T073444_20201107T073840_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085330_20201107T090557_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatter Quality Flags have been The Ocean Altimeter Range and Backscatte	CS_OFFL_SIR_IOPM_2_20201107T074340_20201107T080942_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 Cs_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T085321_C001 Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags 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	CS_OFFL_SIR_IOPM_2_20201107T080959_20201107T081711_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. Cs_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 Cs_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Cs_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001	CS_OFFL_SIR_IOPM_2_20201107T081829_20201107T082111_C001		
CS_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Bac	CS_OFFL_SIR_IOPM_2_20201107T083217_20201107T084403_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags	CS_OFFL_SIR_IOPM_2_20201107T084844_20201107T085001_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20201107T085019_20201107T085321_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20201107T085330_20201107T090557_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

DOUBLING CONTROL (1997)	CS_OFFL_SIR_IOPM_2_20201107T090807_20201107T091325_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Security Claudy, COCO GE CPFF, SRI CPPM 3_20201197110639_2001107110290_COCI GE CPFF, SRI CPPM 3_20201197110649_200110710290_COCI CRIC CPFF, SRI CPPM 3_20201197110649_2001107110290_COCI CRIC CPFF, SRI CPPM 3_20201197110790_2001107110290_COCI CRIC CPFF, SRI CPPM 3_20201197110790_COCI CRIC CPFF, SRI CPPM 3_202011971107	CS_OFFL_SIR_IOPM_2_20201107T092407_20201107T093705_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFF_SRI_IDFN_2_2000107T107842_2001 CB_OFF_SRI_IDFN_2_	CS_OFFL_SIR_IOPM_2_20201107T093919_20201107T095615_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. OFFL. SRI, IOPM_2_20201197119094_20201107119042_20201107119049_202011071190	CS_OFFL_SIR_IOPM_2_20201107T101839_20201107T102905_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Secret Control Contr	CS_OFFL_SIR_IOPM_2_20201107T103044_20201107T104432_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Cal., DRFL_SRI_IOPM_2_20211071110942_20211071115094_20211071115094_2021107115094_202	CS_OFFL_SIR_IOPM_2_20201107T104733_20201107T105237_C001		
and Backscater Quality, COGA Allmenter Range and Backscater Quality Flags have been self-or core to row revords. CS_OFFL_SIR_IOPM_2_20201107113689_202011071120518_C001 CS_OFFL_SIR_IOPM_2_202011071120541_202011071120532_C001 CS_OFFL_SIR_IOPM_2_202011071120542_202011071120532_C001 CS_OFFL_SIR_IOPM_2_202011071120542_202011071120532_C001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_202011071120543_C0001 CS_OFFL_SIR_IOPM_2_20201107113045_C0001 CS_OFFL_SIR_IOPM_2_20201107113045_C0001 CS_OFFL_SIR_IOPM_2_20201107113045_C0001 CS_OFFL_SIR_IOPM_2_20201107113044_C00011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_C00011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_202011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_202011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_202011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_202011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_202011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_202011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071140544_202011071140545_C0001 CS_OFFL_SIR_IOPM_2_202011071150744_202011071150745_C0001 CS_OFFL_SIR_IOPM_2_202011071150744_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071150744_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071150744_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071150744_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071150744_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071160743_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071160743_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071160743_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071160743_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071160743_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071160743_202011071160520_C001 CS_OFFL_SIR_IOPM_2_202011071160743_20201	CS_OFFL_SIR_IOPM_2_20201107T110949_20201107T111307_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201107T19342_20201107T19332_20201 CS_OFFL_SIR_IOPM_2_20201107T19241_20201107T19332_20201 CS_OFFL_SIR_IOPM_2_20201107T19245_20201107T19332_20201 CS_OFFL_SIR_IOPM_2_20201107T19245_20201107T19245_20201107T19245_20201107T19245_20201107T19245_20201107T19245_20201107T19245_20201107T19345_20201107T19245_20201107T19345_20201107T19345_20201107T19345_20201107T19345_20201107T19345_20201107T19345_20201107T19345_20201107T193345_20201107T19345_20201107T193455_20201107T193455_20201107T193345_2020	CS_OFFL_SIR_IOPM_2_20201107T113253_20201107T113439_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGA Althreefer Range and Backscatter Quality Flags have been set for one more records. OCG Althreefer Range Guality. OCG Rationater Range and Reciscater Quality Flags have been set for one more records. OCG Althreefer Range Guality. OCG Rationater Range and Reciscater Quality Flags have been set for one more records. OCG Althreefer Range Guality. OCG Rationater Range and Reciscater Quality Flags and Seasonater Quality Flags and Seasonater Quality. Plags and Seasonater Quality. OCG Rationater Range and Seasonater Quality Flags and Seasonater Quality. Plags an	CS_OFFL_SIR_IOPM_2_20201107T115939_20201107T120518_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bookscater Quality Bookscater Quality Bookscater Quality CS_OFFL_SIR_JOPM_2_202011077128910_20201107713948_CO01 CS_OFFL_SIR_JOPM_2_20201107713846_20201107714025_CO01 CS_OFFL_SIR_JOPM_2_202011077140544_202011077141110_CO01 CS_OFFL_SIR_JOPM_2_202011077141486_2020110771451110_CO01 CS_OFFL_SIR_JOPM_2_202011077141486_2020110771451110_CO01 CS_OFFL_SIR_JOPM_2_202011077141486_202011077145131_CO01 CS_OFFL_SIR_JOPM_2_202011077141486_202011077151310_CO01 CS_OFFL_SIR_JOPM_2_20201107715344_202011077151310_CO01 CS_OFFL_SIR_JOPM_2_20201107715344_202011077151443_CO01 CS_OFFL_SIR_JOPM_2_20201107715344_202011077151455_CO01 CS_OFFL_SIR_JOPM_2_20201107715344_202011077151455_CO01 CS_OFFL_SIR_JOPM_2_20201107715344_20201107715345_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715345_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715345_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715345_20201107715355_CO01 CS_OFFL_SIR_JOPM_2_20201107715352_CO01 CS_OFFL_SIR_JOPM_2_20201107715352_CO0101077164527_CO01 CS_OFFL_SIR_JOPM_2_20201107717340_CO010177164527_CO01 CS_OFFL_SIR_JOPM_2_20201107717340_CO010177164527_CO01 CS_OFFL_SIR_JOPM_2	CS_OFFL_SIR_IOPM_2_20201107T120541_20201107T122332_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COGG Allmeter Range and Backscatter Quality Flags have been set for one or nor necords. CS_OFFL_SIR_JOPM_2_20201107T140544_20001107T1410024_CO01 CS_OFFL_SIR_JOPM_2_20201107T140544_20001107T145044_CO01 CS_OFFL_SIR_JOPM_2_20201107T140544_20001107T15131_CO01 CS_OFFL_SIR_JOPM_2_20201107T150741_20201107T15131_CO01 CS_OFFL_SIR_JOPM_2_20201107T151344_20201107T15133_CO01 CS_OFFL_SIR_JOPM_2_20201107T151344_20201107T15133_CO01 CS_OFFL_SIR_JOPM_2_20201107T151345_20201107T15332_CO01 CS_OFFL_SIR_JOPM_2_20201107T151455_20201107T15332_CO01 CS_OFFL_SIR_JOPM_2_20201107T1515332_CO01 CS_OFFL_SIR_JOPM_2_20201107T151545_20201107T153332_CO01 CS_OFFL_SIR_JOPM_2_20201107T153332_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T153332_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T153332_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T153332_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T153332_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T153332_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T15330_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T15330_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T15330_CO01 CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T15330_CO01 COCO_Allmeter Range_SSHA_SWH and Backscatter Quality Flags have been set for one or nor necords. CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T15330_CO01 COCO_Allmeter Range_SSHA_SWH and Backscatter Quality Flags have been set for one or nor necords. CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T15330_CO01 COCO_Allmeter Range_SSHA_SWH and Backscatter Quality Flags have been set for one or nor necords. CS_OFFL_SIR_JOPM_2_20201107T154543_20201107T154547_CO01 COCO_Allmeter Range_SSHA_SWH and Backscatter Quality Flags have been set for one or nor necords. CS_OFFL_SIR_JOPM_2_20201107T174	CS_OFFL_SIR_IOPM_2_20201107T122745_20201107T123155_C001		
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T140844_20201107T141110_C001 CS_OFFL_SIR_IOPM_2_20201107T141846_20201107T145024_C001 CS_OFFL_SIR_IOPM_2_20201107T141844_20201107T145024_C001 CS_OFFL_SIR_IOPM_2_20201107T150741_20201107T151313_C001 CS_OFFL_SIR_IOPM_2_20201107T150741_20201107T151332_C001 CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T151332_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153530_C001 CS_OFFL_SIR_IOPM_2_20201107T153530_C001 CS_OFFL_SIR_IOPM_2_20201107T153530_C001 CS_OFFL_SIR_IOPM_2_20201107T153530_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T153550_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T153550_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T153550_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T153550_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T173338_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T173338_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T173338_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T173338_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T173338_C001	CS_OFFL_SIR_IOPM_2_20201107T123910_20201107T130438_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201107T141846_20201107T145024_C001 CS_OFFL_SIR_IOPM_2_20201107T141846_20201107T15131_C001 CS_OFFL_SIR_IOPM_2_20201107T150741_20201107T15131_C001 CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T15133_C001 CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T15133_C001 CS_OFFL_SIR_IOPM_2_20201107T151345_2001107T151352_C001 CS_OFFL_SIR_IOPM_2_20201107T151345_2001107T151352_C001 CS_OFFL_SIR_IOPM_2_20201107T151345_2001107T15332_C001 CS_OFFL_SIR_IOPM_2_20201107T15332_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153332_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153332_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153332_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153332_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T154443_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T174302_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T174302_20201107T174303_C001 CS_OFFL_SIR_IOPM_2_20201107T174302_20201107T174303_C001 CS_OFFL_SIR_IOPM_2_20201107T174303_20201107T175308_C001 CS_OFFL_SIR_IOPM_2_20201107T174303_20201107T175308_C001 CS_OFFL_SIR_IOPM_2_20201107T174303_20201107T175308_C001 CS_OFFL_SIR_IOPM_2_20201107T174303_20201107T175308_C001 CS_OFFL_SIR_IOPM_2_20201107T174303_20201107T174308_C001 CS_OFFL_SIR_IOPM_2_20201107T174303_20201107T174308_C001 CS_OFFL_SIR_IOPM_2_20201107T17480413_20201107T174308_C001 CS_OFFL_SIR_IOPM_2_20201107T174303_20201107T174308_C001 CS_OFFL_SIR_	CS_OFFL_SIR_IOPM_2_20201107T133845_20201107T140235_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality, OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T150741_20201107T15131_C001 CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T151352_C001 CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T1513532_C001 CS_OFFL_SIR_IOPM_2_20201107T151345_20201107T153532_C001 CS_OFFL_SIR_IOPM_2_20201107T151345_20201107T153532_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T153532_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T154147_C001 CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T154147_C001 CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T15415_C001 CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T15417_C001 CS_OFFL_SIR_IOPM_2_20201107T15443_20201107T154550_C001 CS_OFFL_SIR_IOPM_2_20201107T15443_20201107T154527_C001 CS_OFFL_SIR_IOPM_2_20201107T15443_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T16443_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T16443_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T16443_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T17715303_C001 CS_OFFL_SIR_IOPM_2_20201107T17715303_C001 CS_OFFL_SIR_IOPM_2_20201107T17777332_20201107T1777333_C001 CS_OFFL_SIR_IOPM_2_20201107T1777332_20201107T177777333_C001 CS_OFFL_SIR_IOPM_2_20201107T1777777777777777777777777777777	CS_OFFL_SIR_IOPM_2_20201107T140544_20201107T141110_C001		
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T151453_C001 CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T151453_C001 CS_OFFL_SIR_IOPM_2_20201107T151345_20201107T15332_C001 CS_OFFL_SIR_IOPM_2_20201107T1513732_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T153332_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T154147_C001 CS_OFFL_SIR_IOPM_2_20201107T155350_C001 CS_OFFL_SIR_IOPM_2_20201107T155350_C001 CS_OFFL_SIR_IOPM_2_20201107T155916_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T155916_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T17430_20201107T17338_C001 CS_OFFL_SIR_IOPM_2_20201107T17430_20201107T17338_C001 CS_OFFL_SIR_IOPM_2_20201107T17430_20201107T17338_C001 CS_OFFL_SIR_IOPM_2_20201107T17430_20201107T17338_C001 CS_OFFL_SIR_IOPM_2_20201107T17430_20201107T17338_C001 CS_OFFL_SIR_IOPM_2_20201107T17332_20201107T17338_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T173338_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T17333	CS_OFFL_SIR_IOPM_2_20201107T141846_20201107T145024_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20201107T151455_20201107T153532_C001 CS_OFFL_SIR_IOPM_2_20201107T151455_20201107T153532_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T154147_C001 CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T153530_C001 CS_OFFL_SIR_IOPM_2_20201107T15443_20201107T153530_C001 CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T153530_C001 CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T17171303_C001 CS_OFFL_SIR_IOPM_2_20201107T17171303_C001 CS_OFFL_SIR_IOPM_2_20201107T17171303_C001 CS_OFFL_SIR_IOPM_2_20201107T1717171717171717171717171717171717	CS_OFFL_SIR_IOPM_2_20201107T150741_20201107T151131_C001		
and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T155350_C001 CS_OFFL_SIR_IOPM_2_20201107T155916_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T17430_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T17430_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T177430_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T177520_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T17773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T17773732_20201107T1773038_C001 CS_OFFL_SIR_IOPM_2_20201107T17777177732_20201107T1777777777777777777777777777777	CS_OFFL_SIR_IOPM_2_20201107T151344_20201107T151453_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T155916_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T1714413_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T1717303_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T1717303_20201107T17173038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173032_20201107T175851_C001 CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T173032_20201107T175851_C001 CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality F	CS_OFFL_SIR_IOPM_2_20201107T151455_20201107T153532_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201107T155916_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T165916_20201107T163112_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T171430_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T171430_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T1717332_20201107T17173038_C001 CS_OFFL_SIR_IOPM_2_20201107T17332_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173332_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T1780137_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T1780137_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_O	CS_OFFL_SIR_IOPM_2_20201107T153732_20201107T154147_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001 CS_OFFL_SIR_IOPM_2_20201107T17164413_20201107T17164527_C001 CS_OFFL_SIR_IOPM_2_20201107T171430_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T171430_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T17173732_20201107T17173038_C001 CS_OFFL_SIR_IOPM_2_20201107T1773732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T1780137_20201107T178851_C001 CS_OFFL_SIR_IOPM_2_20201107T1780137_20201107T178851_C001 CS_OFFL_SIR_IOPM_2_20201107T1780137_20201107T178851_C001 CS_OFFL_SIR_IOPM_2_20201107T1780137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T180137_20201107T180139_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T180139_C001 CS_OFFL_SIR_IOPM_2_20201107T18013	CS_OFFL_SIR_IOPM_2_20201107T154543_20201107T155350_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T171430_20201107T171939_C001 CS_OFFL_SIR_IOPM_2_20201107T17173038_C001 CS_OFFL_SIR_IOPM_2_20201107T172520_20201107T173038_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20201107T155916_20201107T163112_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201107T171430_20201107T171939_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T172520_20201107T173038_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T181159_C001 and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20201107T164413_20201107T164527_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Gor one or more records. CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 Docean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags and Backs	CS_OFFL_SIR_IOPM_2_20201107T171430_20201107T171939_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Backscatter Quality Flags have been serviced by the ocogonal form of the OCOG Altimeter Range and Back	CS_OFFL_SIR_IOPM_2_20201107T172520_20201107T173038_C001		
CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20201107T173732_20201107T175851_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20201107T180137_20201107T181159_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20201107T182228_20201107T182710_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_20201107T184244_20201107T184742_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_20201107T184930_20201107T185943_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_20201107T190642_20201107T190939_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_20201107T191653_20201107T194258_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_20201107T194437_20201107T195035_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_20201107T200557_20201107T201249_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_20201107T201302_20201107T203717_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_20201107T204653_20201107T204847_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_20201107T205114_20201107T205336_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_20201107T205612_20201107T210025_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_20201107T210117_20201107T211208_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_20201107T211213_20201107T212250_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_20201107T213107_20201107T213121_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_20201107T214047_20201107T214448_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_20201107T214609_20201107T220127_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_20201107T221027_20201107T221955_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_20201107T222829_20201107T223255_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_20201107T223521_20201107T224941_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_20201107T225120_20201107T225702_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_20201107T232442_20201107T232647_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_20201107T233131_20201107T233520_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_20201107T233642_20201107T235948_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_20201107T014414_20201107T014446_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_20201107T111307_20201107T111743_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_20201107T172355_20201107T172520_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_20201107T204847_20201107T205114_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_20201107T014034_20201107T014258_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_20201107T014446_20201107T014937_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_20201107T071332_20201107T071429_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20201107T110208_20201107T110220_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_20201107T220127_20201107T220405_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_20201107T231533_20201107T231901_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20201107T000924_20201107T001517_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_20201107T005212_20201107T005401_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_20201107T012959_20201107T013105_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_20201107T014937_20201107T015344_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_20201107T023141_20201107T023323_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_20201107T023430_20201107T023611_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_20201107T043932_20201107T044103_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_20201107T055104_20201107T055425_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_20201107T062122_20201107T062444_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_20201107T064148_20201107T064311_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_20201107T072816_20201107T073030_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_20201107T082111_20201107T082220_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_20201107T090627_20201107T090807_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_20201107T091543_20201107T091737_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_20201107T100051_20201107T100136_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_20201107T101514_20201107T101839_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_20201107T111307_20201107T111743_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_20201107T113504_20201107T114016_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_20201107T115623_20201107T115939_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_20201107T122451_20201107T122745_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_20201107T131253_20201107T131415_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_20201107T131459_20201107T131839_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_20201107T132836_20201107T132958_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_20201107T140430_20201107T140544_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_20201107T145024_20201107T145533_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_20201107T163112_20201107T163242_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_20201107T163331_20201107T163504_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_20201107T164705_20201107T164828_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_20201107T165244_20201107T165302_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_20201107T170417_20201107T170534_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_20201107T173038_20201107T173344_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_20201107T183929_20201107T184244_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_20201107T190340_20201107T190642_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_20201107T190939_20201107T191319_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_20201107T204418_20201107T204653_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_20201107T204847_20201107T205114_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_20201107T212433_20201107T212619_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_20201107T214448_20201107T214609_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_20201107T222002_20201107T222535_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_20201107T231406_20201107T231449_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_20201107T231901_20201107T232110_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_20201107T232212_20201107T232442_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_		OCOG Alt OCOG Ba
CS_	DFFL_SIR_IOPR_2_20201107T000308_20201107T000924_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T005022_20201107T005212_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T014446_20201107T014937_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T022843_20201107T023141_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T032220_20201107T033135_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T040711_20201107T041149_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T042210_20201107T042445_C001	Ocean Alti and Backs Altimeter F PLRM
CS_		OCOG Alt OCOG Ba
CS_	DFFL_SIR_IOPR_2_20201107T050236_20201107T051030_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T054729_20201107T055104_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T060103_20201107T060511_C001	Ocean Alti and Backs Altimeter f PLRM
CS_	DFFL_SIR_IOPR_2_202011071063150_202011071063501_C001	OCOG Alt OCOG Ba
CS_	DFFL_SIR_IOPR_2_20201107T063501_20201107T063920_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T064311_20201107T065050_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T072614_20201107T072816_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T073949_20201107T074340_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_202011071080942_202011071080959_C001	OCOG Alt OCOG Ba
CS_	DFFL_SIR_IOPR_2_20201107T081711_20201107T081729_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T082220_20201107T082935_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T091737_20201107T092407_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_202011071093705_202011071093919_C001	OCOG Alt OCOG Ba
CS_	DFFL_SIR_IOPR_2_20201107T100136_20201107T100829_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DEEL SIR IOPR 2 202011071100833 202011071100839 C001	OCOG Alt OCOG Ba
CS_	DFFL_SIR_IOPR_2_20201107T104432_20201107T104546_C001	Ocean Alti and Backs Altimeter F PLRM
CS_	DFFL_SIR_IOPR_2_20201107T113439_20201107T113504_C001	Ocean Alti and Backs Altimeter F PLRM

OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM

OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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.

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 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_IOPR_2_20201107T114016_20201107T114621_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20201107T122332_20201107T122451_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_20201107T131839_20201107T132738_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_20201107T141601_20201107T141846_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_20201107T145533_20201107T150311_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_20201107T150619_20201107T150741_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_20201107T154147_20201107T154418_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_20201107T155502_20201107T155916_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_20201107T163504_20201107T164132_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_20201107T164828_20201107T164923_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_20201107T171939_20201107T172355_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_20201107T173344_20201107T173732_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_20201107T181321_20201107T182032_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_20201107T182710_20201107T183047_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_20201107T185943_20201107T190340_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_20201107T191319_20201107T191412_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_20201107T195312_20201107T195430_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_20201107T195447_20201107T195930_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_20201107T195930_20201107T200049_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_20201107T200326_20201107T200356_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_20201107T213248_20201107T213812_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_20201107T213812_20201107T213927_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_20201107T220127_20201107T220405_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_20201107T221012_20201107T221027_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_20201107T225702_20201107T225829_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_20201107T230653_20201107T230703_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_20201107T231256_20201107T231406_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20201107T231533_20201107T231901_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_20201107T233115_20201107T233131_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 204

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 14

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:

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.

Description

Test Failed

- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors: 30

Product

Floudet	restraileu	Description
CS_OFFL_SIR_IOP_2_20201106T231805_20201107T000742_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T000742_20201107T005720_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T005720_20201107T014657_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T014657_20201107T023634_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20201107T023634_20201107T032612_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T032612_20201107T041549_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20201107T041549_20201107T050526_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T050526_20201107T055504_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T055504_20201107T064441_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)

	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_IOP_220201107T064441_20201107T073418_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOP_2_20201107T073418_20201107T082356_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_220201107T082356_20201107T091333_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T091333_20201107T100310_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_220201107T100310_20201107T105248_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_220201107T105248_20201107T114225_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T114225_20201107T123202_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T123202_20201107T132140_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T132140_20201107T141117_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_220201107T141117_20201107T150054_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T150054_20201107T155032_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_220201107T155032_20201107T164009_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T164009_20201107T172947_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_220201107T172947_20201107T181924_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T181924_20201107T190901_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_220201107T190901_20201107T195838_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_220201107T195838_20201107T204816_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_220201107T204816_20201107T213753_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_220201107T213753_20201107T222730_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_220201107T222730_20201107T231708_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20201107T231708_20201108T000645_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220201107T041549_20201107T050526_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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: 2

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:

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

P2P Retracking Flags (20Hz)

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

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

Number of products with errors:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

- -

28

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	186	186	6	180	0
SIR_IOPR1B	115	102	3	99	0
SIR_IOPN1B	102	115	0	115	0
SIR_IOPM_2	186	186	130	56	0
SIR_IOPR_2	115	102	40	62	0
SIR_IOPN_2	102	115	36	78	1
SIR IOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

8

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	1	1	1	1							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-

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

7.2 QCC Warnings

Number of QCC reports with warnings

2296

Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_IOPM1B	180	0	0	0	0	0	0
SIR_IOPM_2	0	0	41	46	1	46	0
SIR_IOPN1B	97	0	0	0	0	0	0
SIR_IOPN_2	0	0	13	34	3	27	31
SIR_IOPR1B	108	0	0	0	0	0	0
SIR_IOPR_2	0	1	40	45	1	42	37

-								
	Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	IRPEPOPFDSARNCDF	RPEPOPFDSINNCDF
	SIR_IOPM1B	0	0	0	0	0	0	0
	SIR_IOPM_2	40	1	39	0	0	0	0
	SIR_IOPN1B	0	0	0	0	0	0	0
	SIR_IOPN_2	18	0	0	0	28	0	36
	SIR_IOPR1B	0	0	0	0	0	0	0
	SIR IOPR 2	24	1	0	46	0	51	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	31	0	0	3	28	0	8
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	29	27	50	50	33
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	41	0	3	64	41	9

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPM1B	0	0	0	0	0	0	
SIR_IOPM_2	35	0	2	0	0	0	
SIR_IOPN1B	0	0	0	0	48	1	
SIR_IOPN_2	30	31	15	2	0	0	
SIR_IOPR1B	0	0	0	0	115	6	
SIR IOPR 2	43	49	1	2	0	0	

Duradicat Tour	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	DDCZODOEDNODE
Product Type	IOHHWOOK	MIVIOEPFUNCUF	MVIOEPNODF	MAIONCDE	RBSZUPUEPFUNCUF	RB32UPUEPFDPLRWINCL	RBSZUPUEPNCDF
SIR_IOP_2_	16	28	29	4	29	18	29
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	2	18	29	23	25	29	20

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_IOP_2_	29	29	20	16	29		
Product Type	-	•	-	-	-	-	-

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				

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

7.3 Missing QCC Reports

Number of products with missing QCC reports: