

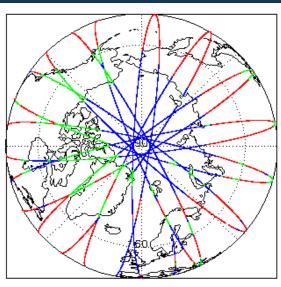
1. Overview

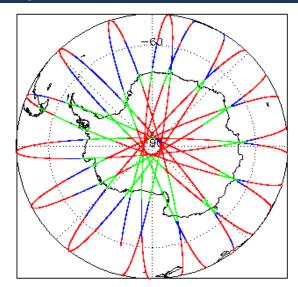
Report Production:	30-Jun-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

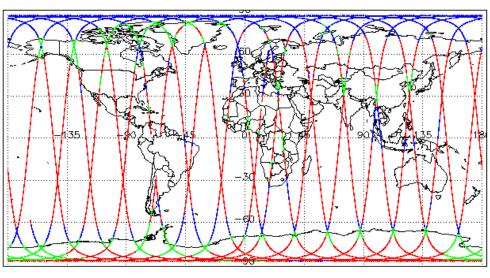
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

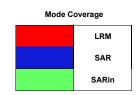
Mission / Instru	ument News
26-Jun-2020	None
27-Jun-2020	None
28-Jun-2020	Nothing planned

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:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200627T081734_20200627T082108_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200627T050054_20200627T051410_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20200627T195933_20200627T202441_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T022153_20200627T022717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T045148_20200627T045300_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T045427_20200627T045649_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T080445_20200627T080502_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T095308_20200627T095800_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T112047_20200627T112140_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T112336_20200627T112424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T161812_20200627T162313_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T171553_20200627T172205_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T175747_20200627T180157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200627T231507_20200627T231713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200627T042325_20200627T042526_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200627T130440_20200627T131359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200627T221635_20200627T221940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200627T235518_20200627T235858_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200627T040815_20200627T042325_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_20200627T003616_20200627T003741_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_20200627T004251_20200627T004557_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200627T021652_20200627T021945_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_20200627T022153_20200627T022717_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_20200627T031251_20200627T031336_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_20200627T035629_20200627T035904_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_20200627T045148_20200627T045300_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_20200627T053336_20200627T053719_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_20200627T063108_20200627T063332_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_20200627T063345_20200627T063532_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200627T071348_20200627T071539_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_20200627T072359_20200627T072614_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_20200627T081059_20200627T081529_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_20200627T085323_20200627T085502_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_20200627T095308_20200627T095800_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200627T103320_20200627T103700_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_20200627T121246_20200627T121603_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_20200627T122115_20200627T122241_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_20200627T130337_20200627T130440_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_20200627T144245_20200627T144359_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_20200627T161812_20200627T162313_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_20200627T175747_20200627T180157_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_20200627T184632_20200627T184853_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_20200627T185521_20200627T185836_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_20200627T193630_20200627T194019_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_20200627T203614_20200627T203730_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_20200627T221519_20200627T221635_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_20200627T230838_20200627T231000_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_20200627T231507_20200627T231713_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_20200627T234522_20200627T234648_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_20200627T235209_20200627T235518_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_20200627T012530_20200627T013246_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_20200627T013246_20200627T013528_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_20200627T030718_20200627T031139_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_20200627T031139_20200627T031251_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_20200627T044506_20200627T044909_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_20200627T044909_20200627T045147_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_20200627T060229_20200627T060746_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_20200627T062457_20200627T063108_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_20200627T080633_20200627T081059_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_20200627T094313_20200627T095308_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_20200627T112425_20200627T113212_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_20200627T130440_20200627T131359_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_20200627T144359_20200627T145115_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_20200627T162313_20200627T163039_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_20200627T180158_20200627T180852_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_20200627T194019_20200627T194853_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_20200627T211712_20200627T212454_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_20200627T225645_20200627T230304_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_20200627T230304_20200627T230607_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_20200627T231000_20200627T231015_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

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_20200627T081733_20200627T082108_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200627T001629_20200627T003333_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	,	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Allered Region and Recharche Carlot y and in common contents. Co. OFTI _5R_OFTI _5R_OFTI _2ROBERTTEINSR_20000770579_DOX CO. OFTI _5R_OFTI _2ROBERTTEINSR_200007705799_DOX CO. OFTI _5R_OFTI _2ROBERTTEINSR_2000077	00.0551.010.10011.0.0000007700.1000.00000770.1000	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
De CRISCO PRINTE D'ADMINISTRATION DE CONTRACTOR DE CONTRAC	CS_OFFL_SIR_IOPM_2_20200627T004922_20200627T012529_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Description (Computer Control	CS_OFFL_SIR_IOPM_2_20200627T013528_20200627T013715_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DO CHIL SIRI, JOHN 2, 20000027103105, 2000027100108. CRIT CRIT JOHN 2, 20000027103115, 2000027100108. CRIT CRIT JOHN 3, 20000027103115, 2000027100108. CRIT CRIT JOHN 3, 20000027100108. CRIT CRIT JOHN 3, 20000027100109. CRIT JOHN 3, 20000027100109. CRIT CRIT JOHN 3, 20000027100109. CRIT JOHN 3, 2000002710010	CS_OFFL_SIR_IOPM_2_20200627T014729_20200627T015201_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Description (Co.) Conference (Co.) Confe	CS_OFFL_SIR_IOPM_2_20200627T015245_20200627T021018_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Col. DeFL_SRI_COM_2_20000027103004_2000027103008_001 Col. DeFL_SRI_COM_2_2000027103004_2000027103008_001 Col. DeFL_SRI_COM_2_2000027103008_00100027103	CS_OFFL_SIR_IOPM_2_20200627T022921_20200627T030528_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200027104016_2020027004100_0011 CS_OFFL_SIR_IOPM_2_20200027104016_2020027004100_0011 CS_OFFL_SIR_IOPM_2_20200027104016_2020027004100_0011 CS_OFFL_SIR_IOPM_2_202000271040016_2020027004100_0011 CS_OFFL_SIR_IOPM_2_202000271040016_20200427004100_0011 CS_OFFL_SIR_IOPM_2_202000271040016_20200427004100010	CS_OFFL_SIR_IOPM_2_20200627T031751_20200627T033616_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sadscatter Quality Service on more records.	CS_OFFL_SIR_IOPM_2_20200627T033709_20200627T035036_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flas Accidented Quality. COCID Alternoter Range and Blackscatter Quality (Page have been alternoted Range and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Range Alternoted Range). SOCID Alternoted Range and Blackscatter Quality (Page have been and Range and Blackscatter Quality). COCID Alternoted Range and Blackscatter Quality (Page have been and Range and Blackscatter Quality). COCID Range (Page Alternoted Range). SOCID Alternoted Range and Blackscatter Quality (Page have been and Range and Blackscatter Quality). COCID Range (Page Alternoted Range). SOCID Alternoted Range and Blackscatter Quality (Page have been and Range and Blackscatter Quality). COCID Range (Page and Blackscatt	CS_OFFL_SIR_IOPM_2_20200627T035904_20200627T040102_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality. COCG Allimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_JOPM_2_20200827T045930_20200827T054542_CO01 CS_OFFL_SIR_JOPM_2_20200827T054091_20200827T054092_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T05110_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T05110_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T052295_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T052391_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T052391_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T052095_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T052095_CO01 CS_OFFL_SIR_JOPM_2_20200827T050094_20200827T052095_CO01 CS_OFFL_SIR_JOPM_2_20200827T053095_20200827T052095_CO01 CS_OFFL_SIR_JOPM_2_20200827T053095_20200827T052095_CO01 CS_OFFL_SIR_JOPM_2_20200827T053095_20200827T052095_CO01 CS_OFFL_SIR_JOPM_2_20200827T053095_20200827T054509_CO01 CS_OFFL_SIR_JOPM_2_20200827T054750_20200827T054095_CO01 CS_OFFL_SIR_JOPM_2_20200827T054750_20200827T05429_CO01 CS_OFFL_SIR_JOPM_2_20200827T054750_20200827T05429_CO01 CS_OFFL_SIR_JOPM_2_20200827T054750_20200827T05429_CO01 CS_OFFL_SIR_JOPM_2_20200827T054750_20200827T05429_CO01 CS_OFFL_SIR_JOPM_2_20200827T054750_20200827T07120029_CO01 CS_OFFL_SIR_JOPM_2_20200827T054750_20200827T07120029_CO01 CS_OFFL_SIR_JOPM_2_20200827T071090_20200827T07120029_CO01 CS_OFFL_SIR_JOPM_2_20200827T071090_20200827T07120029_CO01 CS_OFFL_SIR_JOPM_2_20200827T071090_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071090_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071790_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071790_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071790_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071790_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071790_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071790_20200827T07120009_CO01 CS_OFFL_SIR_JOPM_2_20200827T071790_20200827T0720009_CO01 CC_OFFL_SIR_JOPM_2_20200827T07105000_20200827T0720009_CO01 CC_OFFL_SIR_JOPM_2_20200827	CS_OFFL_SIR_IOPM_2_20200627T040815_20200627T042325_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality (CG_OFFL_SIR_JOPM_2_20200827105949_20001 SC_OFFL_SIR_JOPM_2_20200827105949_20200827105140_001 CG_OFFL_SIR_JOPM_2_202008271050094_20200827105140_001 CG_OFFL_SIR_JOPM_2_202008271050094_20200827105140_001 CG_OFFL_SIR_JOPM_2_20200827105224_202008271052257_0011 CG_OFFL_SIR_JOPM_2_20200827105234_202008271052257_0011 CG_OFFL_SIR_JOPM_2_20200827105234_202008271052257_0011 CG_OFFL_SIR_JOPM_2_20200827105234_202008271052257_0011 CG_OFFL_SIR_JOPM_2_20200827105234_202008271052257_0011 CG_OFFL_SIR_JOPM_2_20200827105234_202008271052257_0011 CG_OFFL_SIR_JOPM_2_20200827105234_202008271052257_0011 CG_OFFL_SIR_JOPM_2_202008271053015_202008271054006_0011 CG_OFFL_SIR_JOPM_2_202008271054006_0011 CG_OFFL_SIR_JOPM_2_202008271054006_0011 CG_OFFL_SIR_JOPM_2_202008271054750_202008271054006_0011 CG_OFFL_SIR_JOPM_2_202008271054750_202008271054006_0011 CG_OFFL_SIR_JOPM_2_202008271054750_202008271051224_0001 CG_OFFL_SIR_JOPM_2_202008271054750_202008271051224_0001 CG_OFFL_SIR_JOPM_2_202008271054750_202008271051224_0001 CG_OFFL_SIR_JOPM_2_202008271054750_202008271071755_0001 CG_OFFL_SIR_JOPM_2_20200827105402_202008271071755_0001 CG_OFFL_SIR_JOPM_2_20200827105404_202008271071755_0001 CG_OFFL_SIR_JOPM_2_20200827105404_2020082710712390_0001 CG_OFFL_SIR_JOPM_2_20200827105404_2020082710712390_0001 CG_OFFL_SIR_JOPM_2_20200827105404_2020082710712390_0001 CG_OFFL_SIR_JOPM_2_20200827105404_2020082710712390_0001 CG_OFFL_SIR_JOPM_2_20200827105404_2020082710712390_0001 CG_OFFL_SIR_JOPM_2_20200827105404_2020082710712390_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827107109028_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827107109028_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827107109028_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827107109028_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827107109028_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827107109028_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827107109028_0001 CG_OFFL_SIR_JOPM_2_20200827105404_20200827109308_0001 CG_OFFL_SIR_JOPM_2_2020082710540	CS_OFFL_SIR_IOPM_2_20200627T042526_20200627T043450_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality Flags have been addressed to Company from the Company of	CS_OFFL_SIR_IOPM_2_20200627T045300_20200627T045427_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and flackscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T05224_20200627T052257_C001 CS_OFFL_SIR_IOPM_2_20200627T053015_20200627T053131_C001 CS_OFFL_SIR_IOPM_2_20200627T053015_20200627T053131_C001 CS_OFFL_SIR_IOPM_2_20200627T053015_20200627T053131_C001 CS_OFFL_SIR_IOPM_2_20200627T053015_20200627T054505_C001 CS_OFFL_SIR_IOPM_2_20200627T053719_20200627T05405_C001 CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T060228_C001 CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T060228_C001 CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T07124_C001 CS_OFFL_SIR_IOPM_2_20200627T054002_20200627T07124_C001 CS_OFFL_SIR_IOPM_2_20200627T07124_C001 CS_OFFL_SIR_IOPM_2_20200627T07124_C001 CS_OFFL_SIR_IOPM_2_20200627T071530_20200627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071530_20200627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071530_20200627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071530_20200627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T07164020_20200627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071530_20200627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071530_20200627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071600227T071530_C000627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T0716002627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T0716002627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T0716002627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071600627T071530_C000627T07123_C001 CS_OFFL_SIR_IOPM_2_20200627T071600627T071531_C001 CS_OFFL_SIR_IOPM_2_20200627T071600630_20200627T071621_C001 CS_OFFL_SIR_IOPM_2_20200627T071600630_20200627T071621_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_2020627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_2020627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_2020627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_2020627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085740_20206	CS_OFFL_SIR_IOPM_2_20200627T045649_20200627T045939_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200627T053015_20200827T053131_C001 CS_OFFL_SIR_IOPM_2_20200627T053015_20200827T054505_C001 CS_OFFL_SIR_IOPM_2_20200627T053719_20200827T054505_C001 CS_OFFL_SIR_IOPM_2_20200627T053719_20200827T064505_C001 CS_OFFL_SIR_IOPM_2_20200627T054709_20200827T064505_C001 CS_OFFL_SIR_IOPM_2_20200627T054709_20200827T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T054709_20200827T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200827T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T071239_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200827T08278_2001 CS_OFFL_SIR_IOPM_2_20200827T08278_2001 CS_OFFL_SIR_IOPM_2_20200827T08278_2001 CS_OFFL_SIR_IOPM_2_20200827T08278_2001	CS_OFFL_SIR_IOPM_2_20200627T050054_20200627T051410_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T053719_20200627T054505_C001 CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T064228_C001 CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T060228_C001 CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T060228_C001 CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T054029_20200627T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T071234_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T07153_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T07153_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T07153_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T0715404_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T0752444_20200627T07521_C001 CS_OFFL_SIR_IOPM_2_20200627T075449_20200627T07521_C001 CS_OFFL_SIR_IOPM_2_20200627T075449_20200627T07521_C001 CS_OFFL_SIR_IOPM_2_20200627T075444_20200627T085111_C001 CS_OFFL_SIR_IOPM_2_20200627T085749_20200627T092788_C001 CS_OFFL_SIR_IOPM_2_20200627T095749_2020627T092788_C001 CS_OFFL_SIR_IOPM_2_20200627T095749_2020627T092788_C001 CS_OFFL_SIR_IOPM_2_20200627T095749_2020627T095788_C001 CS_OFFL_SIR_IOPM_2_20200627T095749_20200627T095788_C001 CS_OFFL_SIR_IOPM_2_20200627T095749_2020627T095788_C001 CS_OFFL_SIR	CS_OFFL_SIR_IOPM_2_20200627T052234_20200627T052257_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T060228_C001 CS_OFFL_SIR_IOPM_2_20200627T064029_20200627T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T064029_20200627T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T071224_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T071235_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T071535_C001 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T071539_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_C001 CS_OFFL_SIR_IOPM_2_20200627T07239_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T07239_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T07239_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T07502444_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T07502444_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T07502444_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T07502444_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090728_C001 CS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T0903319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T093319_20200627T090728_C001 CCS_OFFL_SIR_IOPM_2_20200627T093319_20200627T0907319_2020627T090	CS_OFFL_SIR_IOPM_2_20200627T053015_20200627T053131_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T064029_20200627T071224_CO01 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T0712359_CO01 CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T071753_CO01 CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T071753_CO01 CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_CO01 CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_CO01 CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T075221_CO01 CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T075221_CO01 CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T085111_CO01 CS_OFFL_SIR_IOPM_2_20200627T085749_20200627T09208_CO01 CS_OFFL_SIR_IOPM_2_20200627T090303_20200627T092728_CO01 CS_OFFL_SIR_IOPM_2_20200627T090303_20200627T092728_CO01 CS_OFFL_SIR_IOPM_2_20200627T090303_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_CO01 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508	CS_OFFL_SIR_IOPM_2_20200627T053719_20200627T054505_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T072359_C001 CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_C001 CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T072359_C001 CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T07221_C001 CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T085111_C001 CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T085111_C001 CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093094_20200627T093508_C001 CCOCA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CCOCA Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CCCCA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCA Altimeter Range and Backscatter Quality Fl	CS_OFFL_SIR_IOPM_2_20200627T054750_20200627T060228_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_C001 Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG CS_OFFL_SIR_IOPM_2_20200627T09530_2020627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OF	CS_OFFL_SIR_IOPM_2_20200627T064029_20200627T071224_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T075221_C001 CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T085111_C001 CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T085111_C001 CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T085749_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CCS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CCS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CCS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CCS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CCS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CCS_OFFL_SIR_IOPM_2_20200627T093804_20200627T093508_C001 CCS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_IOPM_2_20200627T071539_20200627T071753_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200627T082444_20200627T085111_C001 CS_OFFL_SIR_IOPM_2_20200627T085749_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093304_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T0934312_C001 And Backscatter Quality, OCOG 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. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T0934312_C001 COCOA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T0934312_C001 COCOA Altimeter Range, SSHA, SWH And Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T0934312_C001 COCOA Altimeter Range, SSHA, SWH And Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T0934312_C001 COCOA Altimeter Range, SSHA, SWH And Backscatter Quality, OCOG Backscatter Qua	CS_OFFL_SIR_IOPM_2_20200627T071804_20200627T072359_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200627T085749_20200627T090208_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T0902728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T0902728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090607_C000627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090607_C000627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090607_C000627T090508_C001 CS_OFFL_SIR_IOPM_2_20200627T090607_C000627_C0	CS_OFFL_SIR_IOPM_2_20200627T072739_20200627T075221_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 Backscatter Quality for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 Backscatter Quality 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_20200627T082444_20200627T085111_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001 CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200627T085749_20200627T090208_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG and House of the Ocoan Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200627T090630_20200627T092728_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_IOPM_2_20200627T093319_20200627T093508_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_IOPM_2_20200627T093804_20200627T094312_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_IOPM_2_20200627T095800_20200627T102947_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_20200627T103700_20200627T104239_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_20200627T104532_20200627T105022_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_20200627T111437_20200627T111453_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_20200627T113618_20200627T120926_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_20200627T121603_20200627T122115_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_20200627T122507_20200627T124258_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_20200627T124612_20200627T125124_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_20200627T131359_20200627T134801_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_20200627T135609_20200627T140021_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_20200627T140504_20200627T143053_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_20200627T143116_20200627T143848_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_20200627T144059_20200627T144245_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_20200627T145115_20200627T150541_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_20200627T151021_20200627T151200_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_20200627T151203_20200627T152212_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_20200627T152400_20200627T152728_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_20200627T152942_20200627T153501_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_20200627T153520_20200627T153725_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_20200627T154614_20200627T155838_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_20200627T160044_20200627T161812_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_20200627T164012_20200627T164942_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_20200627T165144_20200627T170621_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_20200627T170907_20200627T171402_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_20200627T171436_20200627T171553_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_20200627T172237_20200627T172420_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_20200627T174005_20200627T174445_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_20200627T174551_20200627T174819_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_20200627T182940_20200627T184509_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_20200627T184853_20200627T185329_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_20200627T185350_20200627T185521_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_20200627T190030_20200627T193425_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_20200627T195933_20200627T202441_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_20200627T202724_20200627T203230_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_20200627T203943_20200627T210614_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_20200627T210814_20200627T211114_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_20200627T213452_20200627T213714_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_20200627T213846_20200627T220404_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_20200627T221146_20200627T221519_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_20200627T221940_20200627T225304_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_20200627T230607_20200627T230816_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_20200627T233708_20200627T233956_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_20200627T234648_20200627T235209_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_20200627T235858_20200628T002019_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_20200627T000359_20200627T000418_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_20200627T063345_20200627T063532_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_20200627T113422_20200627T113618_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_20200627T013715_20200627T014729_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_20200627T155838_20200627T160044_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_20200627T184510_20200627T184632_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_20200627T211712_20200627T212454_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_20200627T230816_20200627T230838_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200627T004251_20200627T004557_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_20200627T021652_20200627T021945_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_20200627T022153_20200627T022717_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_20200627T043450_20200627T043805_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_20200627T045148_20200627T045300_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_20200627T045427_20200627T045649_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_20200627T053336_20200627T053719_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_20200627T054505_20200627T054651_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_20200627T061146_20200627T061510_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_20200627T063345_20200627T063532_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_20200627T063631_20200627T063649_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_20200627T063906_20200627T064029_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_20200627T082108_20200627T082331_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_20200627T085619_20200627T085749_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_20200627T090208_20200627T090500_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_20200627T095308_20200627T095800_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_20200627T103320_20200627T103700_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_20200627T105937_20200627T110311_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_20200627T113212_20200627T113344_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_20200627T121246_20200627T121603_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_20200627T124258_20200627T124612_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_20200627T130337_20200627T130440_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_20200627T134959_20200627T135343_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_20200627T161812_20200627T162313_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_20200627T163616_20200627T164012_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_20200627T171553_20200627T172205_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_20200627T175305_20200627T175427_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_20200627T181912_20200627T181937_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_20200627T185521_20200627T185836_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_20200627T193630_20200627T194019_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_20200627T203614_20200627T203730_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_20200627T211115_20200627T211711_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_20200627T225510_20200627T225645_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_20200627T230838_20200627T231000_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_20200627T234522_20200627T234648_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_20200627T235209_20200627T235518_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_20200626T235901_20200627T000231_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_20200627T000509_20200627T000831_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_20200627T003334_20200627T003616_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_20200627T004557_20200627T004922_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_20200627T012530_20200627T013246_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_20200627T013246_20200627T013528_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_20200627T013715_20200627T014729_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_20200627T021018_20200627T021652_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_20200627T030528_20200627T030624_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_20200627T030718_20200627T031139_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_20200627T035036_20200627T035628_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_20200627T044506_20200627T044909_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_20200627T045939_20200627T050054_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_20200627T053327_20200627T053336_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_20200627T060229_20200627T060746_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_20200627T060746_20200627T061045_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_20200627T062457_20200627T063108_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_20200627T072614_20200627T072739_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_20200627T080222_20200627T080445_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_20200627T080502_20200627T080602_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_20200627T094313_20200627T095308_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_20200627T102948_20200627T103320_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_20200627T111736_20200627T112041_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_20200627T112425_20200627T113212_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_20200627T122241_20200627T122507_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_20200627T125324_20200627T125439_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_20200627T130440_20200627T131359_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_20200627T134801_20200627T134959_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_20200627T140129_20200627T140504_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_20200627T144359_20200627T145115_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_20200627T153911_20200627T154139_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_20200627T154139_20200627T154614_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_20200627T155838_20200627T160044_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_20200627T162313_20200627T163039_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_20200627T165033_20200627T165144_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_20200627T170622_20200627T170722_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_20200627T175427_20200627T175746_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_20200627T180158_20200627T180852_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.

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CS_OFFL_SIR_IOPR_2_20200627T182245_20200627T182417_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_20200627T182420_20200627T182940_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_20200627T184510_20200627T184632_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_20200627T185836_20200627T190030_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_20200627T194019_20200627T194853_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_20200627T195501_20200627T195550_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_20200627T211712_20200627T212454_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_20200627T212756_20200627T212909_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_20200627T221635_20200627T221940_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_20200627T225645_20200627T230304_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_20200627T231000_20200627T231015_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_20200627T235518_20200627T235858_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:

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:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

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

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

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20200626T235234_20200627T004208_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_220200627T004208_20200627T013148_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_2_20200627T013148_20200627T022122_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_20200627T022122_20200627T031101_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_20200627T031101_20200627T040035_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_20200627T040035_20200627T045015_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_20200627T045015_20200627T053949_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_20200627T053949_20200627T062928_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_20200627T062928_20200627T071903_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_20200627T071903_20200627T080842_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_20200627T080842_20200627T085816_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_220200627T085816_20200627T094756_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_220200627T094756_20200627T103730_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_220200627T103730_20200627T112709_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_20200627T112709_20200627T121643_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_20200627T121643_20200627T130623_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_20200627T130623_20200627T135557_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_20200627T135557_20200627T144536_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_220200627T144536_20200627T153510_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_220200627T153510_20200627T162450_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_220200627T162450_20200627T171424_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_20200627T171424_20200627T180404_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_220200627T180404_20200627T185338_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_20200627T185338_20200627T194317_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_220200627T194317_20200627T203251_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_20200627T203251_20200627T212231_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_220200627T212231_20200627T221205_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_220200627T221205_20200627T230144_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_220200627T230144_20200627T235119_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 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:

Test Failed Description

Product CS_OFFL_SIR_IOP_2__20200627T080842_20200627T085816_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:

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 30

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors:

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:

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	148	148	7	141	0
SIR_IOPR1B	108	107	3	104	0
SIR_IOPN1B	107	108	0	108	0
SIR_IOPM_2	148	148	101	47	0
SIR_IOPR_2	108	107	44	63	0
SIR_IOPN_2	107	108	30	78	0
SIR IOP P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC reports with warnings 2215

Total number of occurrences of each warning

	Total names of countries								
	Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF	
Ī	SIR_IOPM1B	141	0	0	0	0	0	0	
	SIR_IOPM_2	0	38	39	0	39	0	34	
	SIR_IOPN1B	103	0	0	0	0	0	0	
	SIR_IOPN_2	0	12	37	5	24	27	22	
	SIR_IOPR1B	104	0	0	0	0	0	0	
	SIR IOPR 2	0	42	50	0	40	29	18	

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	31	0	0	0	0	24
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	1	0	0	27	0	36	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	6	0	54	0	58	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	0	5	27	0	2	35
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	29	15	42	55	30	30
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	50	0	2	66	43	7	43

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•	-
SIR_IOPM1B	0	0	0	0	0		
SIR_IOPM_2	0	4	0	0	0		
SIR_IOPN1B	0	0	0	51	1		
SIR_IOPN_2	31	17	3	0	0		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_IOPR_2	55	4	3	0	0		
SIR_IOPR1B	0	0	0	108	6		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
	15	29	29	5	29	17	29

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	6	19	29	25	15	29	19

	Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•
ſ	SIR IOP 2	23	28	19	16	29		

est Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees				
NCDF RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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: