

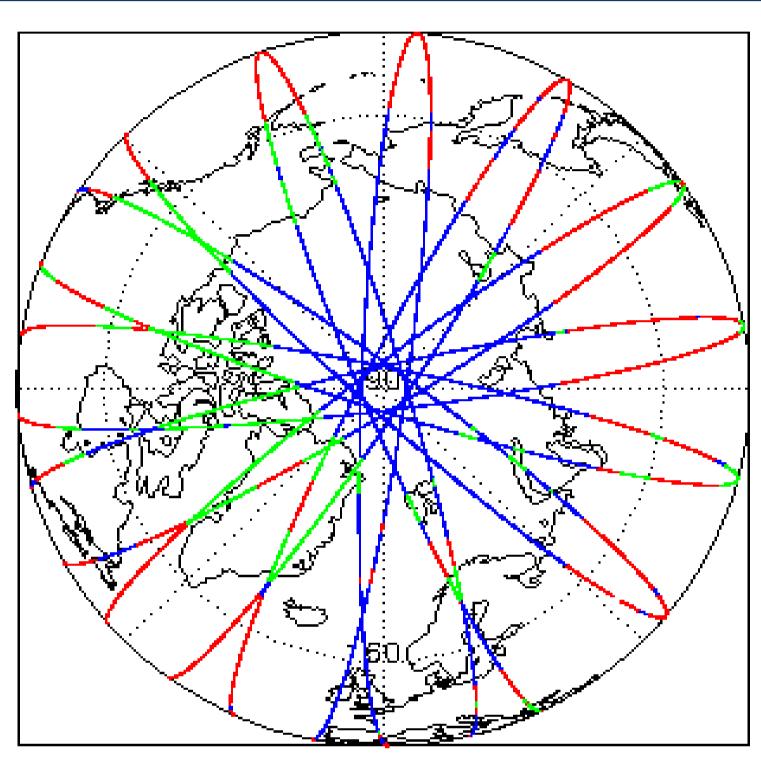
1. Overview

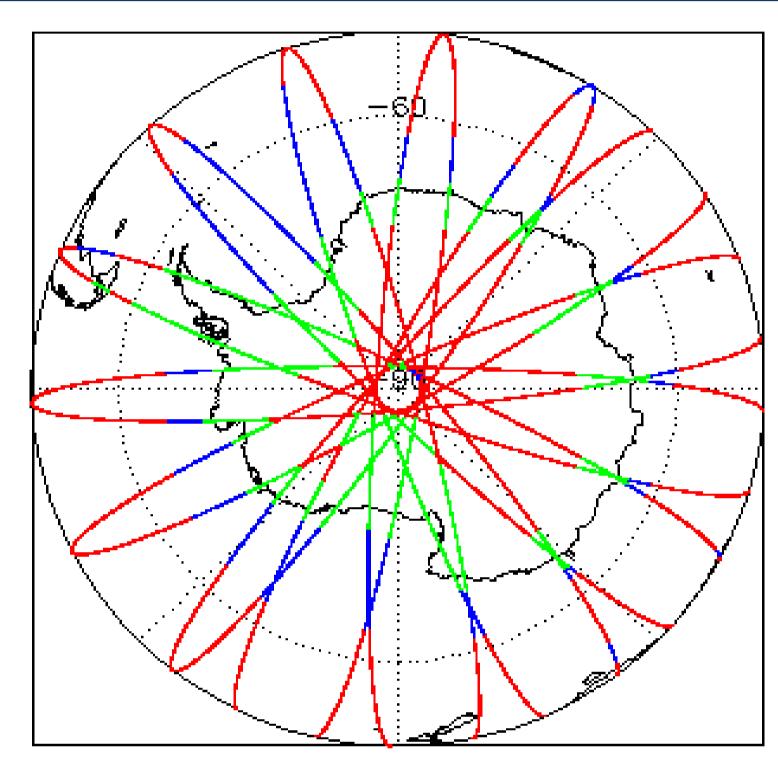
Report Production:	29-Jun-2020
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

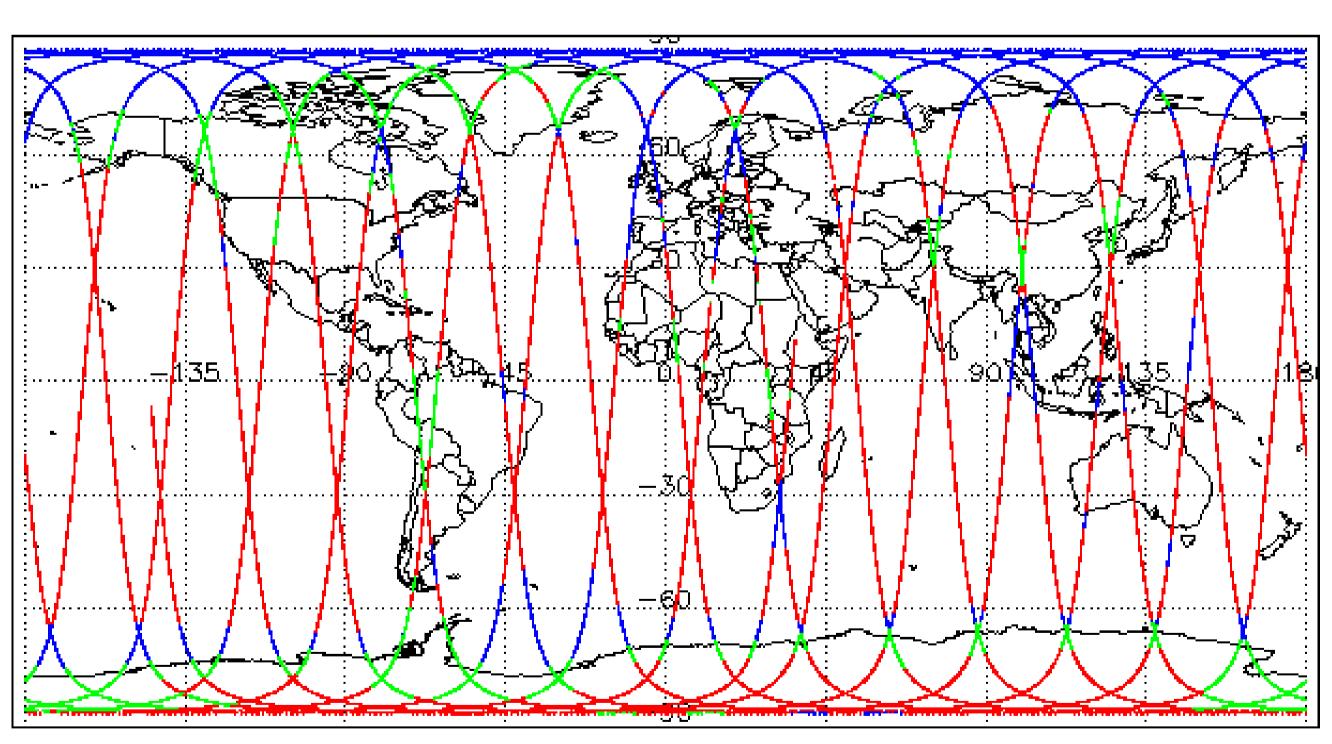
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

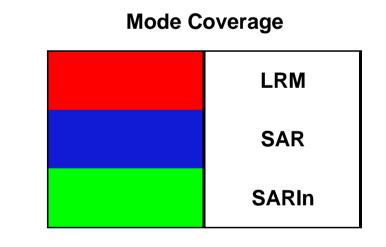
Mission / In	strument News
28-May-20	None
29-May-20	None None
30-May-20	Nothing planned

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP 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 GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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 GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

 \cap

0

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 some products over land, but this is to be expected.

Number of products with errors:

20

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200529T062623_20200529T063905_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200529T130109_20200529T133437_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T043744_20200529T044207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T061640_20200529T061752_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T061922_20200529T062145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T075601_20200529T075824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T092938_20200529T092955_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T093056_20200529T093126_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T124827_20200529T124917_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T174259_20200529T174805_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200529T192241_20200529T192650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T012354_20200529T012734_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T074945_20200529T075601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T092717_20200529T092938_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T124918_20200529T125705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T133437_20200529T133742_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T141946_20200529T142109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T142608_20200529T142830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T220225_20200529T220431_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200529T225143_20200529T225240_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

0

5.4 L2 Auxiliary Correction Error Check

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

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

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

Number of products with errors:

Test Failed **Product** Description There is an error with the Mean Dynamic Topography (solution 1) for one CS OFFL SIR GOPM 2 20200529T053256 20200529T054819 C001 Mean Dynamic Topography (1) or more records ıvıean ∪ynamıc τοpograpny (1), τοται There is an error with the Mean Dynamic Topography height (solution 1), Geocentric Ocean Tide (GOT), Total Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) CS_OFFL_SIR_GOPM_2_20200529T092641_20200529T092717_C001 Geocentric Ocean Tide (FES), Nonand the Non-Equilibrium Long Period Ocean Tide for one or more records Fauilibrium Long Period Ocean Tide There is an error with the Mean Dynamic Topography (solution 1) for one Mean Dynamic Topography (1) CS_OFFL_SIR_GOPM_2_20200529T190459_20200529T191020_C001 or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T020112_20200529T020237_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the IVISS neight (solution T) and the IVIean Dynamic iviean Sea Surrace (1), iviean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total CS_OFFL_SIR_GOPN_2_20200529T020747_20200529T021053_C001 Tide (GOT), Total Geocentric Ocean Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (FFS) Non-Fauilibrium Long Period Tide for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T034146_20200529T034440_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T034649_20200529T035212_C001 Topography height (solution 1) for one or more records Topography (1) iviean Sea Surrace (1), iviean Dynamic I nere is an error with the IVISS neight (solution 1) and the IVIEAN Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total CS OFFL SIR GOPN 2 20200529T043744 20200529T044207 C001 Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) Non-Fauilibrium I and Period Tide for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tide CS_OFFL_SIR_GOPN_2_20200529T052125_20200529T052400_C001 Tide (GOT) height (solution 1: GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T061640_20200529T061752_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200529T061922_20200529T062145_C001 or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T065831_20200529T070217_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T075601_20200529T075824_C001 Topography height (solution 1) for one or more records Topography (1) Mean Dynamic Topography (1), Total There is an error with the Mean Dynamic Topography (solution 1) and the CS_OFFL_SIR_GOPN_2_20200529T075839_20200529T080025_C001 Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one CS_OFFL_SIR_GOPN_2_20200529T083844_20200529T084035_C001 Mean Dynamic Topography (1) or more records There is an error with the Mean Dynamic Topography (solution 1) for one CS_OFFL_SIR_GOPN_2_20200529T084855_20200529T085108_C001 Mean Dynamic Topography (1) or more records There is an error with the Mean Dynamic Topography (solution 1) for one CS_OFFL_SIR_GOPN_2_20200529T093056_20200529T093126_C001 Mean Dynamic Topography (1) or more records There is an error with the Mean Dynamic Topography (solution 1) for one CS_OFFL_SIR_GOPN_2_20200529T093550_20200529T094021_C001 Mean Dynamic Topography (1) or more records There is an error with the Mean Dynamic Topography (solution 1) for one CS_OFFL_SIR_GOPN_2_20200529T101820_20200529T101958_C001 Mean Dynamic Topography (1) or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: CS_OFFL_SIR_GOPN_2_20200529T111801_20200529T112256_C001 Total Geocentric Ocean Tide (GOT) GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T115815_20200529T120156_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T133742_20200529T134100_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one Mean Dynamic Topography (1) CS_OFFL_SIR_GOPN_2_20200529T134612_20200529T134737_C001 or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T160737_20200529T160851_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T174300_20200529T174805_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR GOPN 2 20200529T184049 20200529T184701 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_GOPN_2_20200529T192241_20200529T192650_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one CS_OFFL_SIR_GOPN_2_20200529T201130_20200529T201347_C001 Mean Dynamic Topography (1) or more records There is an error with the Mean Dynamic Topography (solution 1) for one CS_OFFL_SIR_GOPN_2_20200529T202016_20200529T202331_C001 Mean Dynamic Topography (1) or more records

CS_OFFL_SIR_GOPN_2_20200529T210123_20200529T210512_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20200529T234015_20200529T234131_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T011138_20200529T011839_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T011839_20200529T012005_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T013006_20200529T013327_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T025024_20200529T025738_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T025738_20200529T030009_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T043211_20200529T043631_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T043631_20200529T043743_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20200529T061006_20200529T061454_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T061454_20200529T061640_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T072722_20200529T073505_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T074945_20200529T075601_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T092717_20200529T092938_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T093127_20200529T093550_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T110756_20200529T111801_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125705_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T142932_20200529T143950_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T160852_20200529T161609_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T174806_20200529T175526_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T192651_20200529T193344_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T210513_20200529T211342_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) for one or more records
CS_OFFL_SIR_GOPR_2_20200529T224205_20200529T224948_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) 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:

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.

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20200529T001503_20200529T002032_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_GOPM_2_20200529T002313_20200529T002853_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_GOPM_2_20200529T003504_20200529T010843_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.

De 2011 518 0011 9 2 100000 (2000) 200000 (2000) 200000 (2000) 20000 (
Note that dealing Proceedings Procedure Proced	CS_OFFL_SIR_GOPM_2_20200529T014125_20200529T015940_C001	and Backscatter Quality, OCOG	
are tips CODE distance for part to the control of part times from the control of part times f	CS_OFFL_SIR_GOPM_2_20200529T020238_20200529T020747_C001		
Col. Del 1, Sec. 2004 2, 2000000110014 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 2000000110015 2, 20000000110015 2, 20000000110015 2, 20000000110015 2, 20000000110015 2, 20000000110015 2, 20000000110015 2, 20000000110015 2, 20000000110015 2, 20000000110015 2, 200000000110015 2, 2000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20200529T021403_20200529T024810_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sec. ORFIL SIR SIGNIN 2. 20200201107 NEL (CECCOSTINOSIA) CO. ORFIC SIR SIGNIN SIGNIN 2. 20200201107 NEL (CECCOSTINOSIA) CO. ORFIC SIR SIGNIN SIGNIN 2. 2020020110706402 (CECCOSTINOSIA) CO. ORFIC SIR SIGNIN SIGNIN 2. 2020020110706402 (CECCOSTINOSIA) CO. ORFIC SIR SIGNIN 2. 2020020110706402 (CECCOSTINOSIA) CO. ORFIC SIR SIGNIN SIGNIN 2. 2020020110706402 (CECCOSTINOSIA) CO. ORFIC SIR SIGNIN SIGN	CS_OFFL_SIR_GOPM_2_20200529T030134_20200529T030207_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SR_GOPM_2_reconcell toxicity_CDEV CS_OFF_SR_GOPM_2_reconcell tox	CS_OFFL_SIR_GOPM_2_20200529T031223_20200529T031658_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SCIENTINUS CONTRESSON SECURIORISTICATION CONTRIBUTIONS CONTRIBUTION CO	CS_OFFL_SIR_GOPM_2_20200529T031740_20200529T033514_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_OCHI_2_20200321705205_20200521705205_C001 CS_OFFL_SIR_OCHI_2_20200321705205_20200521705205_C001 CS_OFFL_SIR_OCHI_2_20200321705205_20200521705205_C001 CS_OFFL_SIR_OCHI_2_20200521705205_20200521705205_C001 CS_OFFL_SIR	CS_OFFL_SIR_GOPM_2_20200529T035402_20200529T042442_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backsteater Quality. COCO Alterester Range and Backsteater Quality. Plags have even active control of the Range and Backsteater Quality. Plags have been set active control of the Range Quality. OCCO Alterester Range Quality. OCCO COCO Alterester Range and Backsteater Quality. Plags have been set to control occored to control occor	CS_OFFL_SIR_GOPM_2_20200529T044245_20200529T050114_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Cuality CS_OFF_SIR_GOPY_2_20000591705310_COV CS_OFF_SIR_GOPY_2_20000591705325_22000591705411_COV CS_OFF_SIR_GOPY_2_20000591705325_22000591705412_COV CS_OFF_SIR_GOPY_2_20000591705325_22000591705412_COV CS_OFF_SIR_GOPY_2_20000591705325_22000591705412_COV CS_OFF_SIR_GOPY_2_20000591705325_22000591705412_COV CS_OFF_SIR_GOPY_2_20000591705412_COV CS_OFF_SIR_GOPY_2_20000591707427_COV CS_OFF_SIR_G	CS_OFFL_SIR_GOPM_2_20200529T050205_20200529T051530_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscanter Quality Security	CS_OFFL_SIR_GOPM_2_20200529T052400_20200529T052558_C001		
and Backscarter Quality, OCOG Altimeter Range and Backscarter Quality Flags have been set from corn or records. CS OFFL SIR GOPM 2 20200529705500 202005297055943 C001 CR OFFL SIR GOPM 2 20200529705500 202005297055943 C001 CQ OFFL SIR GOPM 2 20200529705500 20200529705943 C001 CR OFFL SIR GOPM 2 202005297052445 20200529705943 C001 CR OFFL SIR GOPM 2 202005297052445 20200529705925 C001 CR OFFL SIR GOPM 2 202005297052445 202005297059395 C001 CR OFFL SIR GOPM 2 202005297052445 202005297059395 C001 CR OFFL SIR GOPM 2 2020052970529745 20200529705955 C001 CR OFFL SIR GOPM 2 2020052970529745 20200529705955 C001 CR OFFL SIR GOPM 2 202005297052974 20200529705955 C001 CR OFFL SIR GOPM 2 202005297052974 20200529705957 C001 CR OFFL SIR GOPM 2 20200529705297 20200529705957 C001 CR OFFL SIR GOPM 2 20200529705297 20200529705957 C001 CR OFFL SIR GOPM 2 20200529705297 20200529705957 C001 CR OFFL SIR GOPM 2 2020052970557 20200529705957 C001 CR OFFL SIR GOPM 2 2020052970557 20200529707057 20200529707057 C001 CR OFFL SIR GOPM 2 20200529707057	CS_OFFL_SIR_GOPM_2_20200529T052721_20200529T053100_C001		
CS OFFL SIR COPM 2 20200S28T081782 20200S28T081922 C001 CS OFFL SIR COPM 2 20200S28T081782 20200S28T081922 C001 CS OFFL SIR COPM 2 20200S28T081782 20200S28T081922 C001 CS OFFL SIR COPM 2 20200S28T082145 20200S28T082411 C001 CS OFFL SIR COPM 2 20200S28T082145 20200S28T082411 C001 CS OFFL SIR GOPM 2 20200S28T08245 20200S28T082811 C001 CS OFFL SIR GOPM 2 20200S28T08282 20200S28T08305 C001 Allimoter Range and Buckscatter Quality, OCOG Allimoter Range and Buckscatter Quality Flags have been set for one or more records. CS OFFL SIR GOPM 2 20200S28T08282 20200S28T08305 C001 Allimoter Range and Buckscatter Quality Flags have been set for one or more records. CS OFFL SIR GOPM 2 20200S28T08525 20200S28T08305 C001 CS OFFL SIR GOPM 2 20200S28T07027 20200S28T070525 C001 CS OFFL SIR GOPM 2 20200S28T08022 20200S28T08866 C001 CS OFFL SIR GOPM 2 20200S28T08022 20200S28T0	CS_OFFL_SIR_GOPM_2_20200529T053256_20200529T054819_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200529T062923_20200529T0620411_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T062055_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T06305_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T06305_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T06305_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T06505_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T06505_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T06505_C0U1 CS_OFFL_SIR_GOPM_2_20200529T062023_20200529T06505_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07625_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07025_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07025_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07025_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07025_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07025_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07025_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07025_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07021_C0U1 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T07021_C0U1 CS_OFFL_SIR_GOPM_2_20200529T07001_20200529T07020C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074000C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074000C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074000C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074000C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074000C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074000C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T084950C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T084950C0U1 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T084950C0U1 CS_OFFL_SIR_GOPM_2_20200529T084950C0U1 CS_OFFL_SIR_GOPM_2_20200529T084950C0U1 CS_OFFL_SIR_GOPM_2_20200529T084950C0U10529T1084750C0U10529T084950C0U10529T1084750C0U10529T084950C0U10529T1084750C0U10529T084950C0U10529T1084750C0U10529T084950C0U10529T1084750C0U10529T084950C0U10529T1084750C0U10529T084950C0U10529T1084750C0U10529T084950C0U10529T084950	CS_OFFL_SIR_GOPM_2_20200529T055020_20200529T055943_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality. CoCOG Altimeter Range and Backscatter Quality. Plags have been add Backscatter Quality. CoCOG Altimeter Range. SSHA, SWH and Backscatter Quality. Plags and the OCOG Altimeter Range. Altimeter Range. Altimeter Range. SSHA, SWH and Backscatter Quality. CoCOG Altimeter Range. Altimeter Range. SSHA, SWH and Backscatter Quality. CoCOG Altimeter Range and Backscatter Quality. OCOG Altimeter Range. SSHA, SWH and Backscatter Quality. CoCOG Altimeter Range. SSHA, SWH and Backscatter Quality. CoCOG Altimeter Range and Backscatter Quality. OCOG Backscatter Quality. OCOG Altimeter Range and Backscatter Quality. CoCOG Backscatter Quality. OCOG Backscatte	CS_OFFL_SIR_GOPM_2_20200529T061752_20200529T061922_C001		
and Backscatter Quality, COCG Alfmeter Range and Backscatter Quality, COCG Alfmeter Range and Backscatter Quality Flags have been addressed to one or more records. CS OFFL SIR GOPM 2 20200529T065514 20200529T08527 C001 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T070525_C001 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T070525_C001 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T070525_C001 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T070525_C001 CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071001_C001 CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071001_C001 CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071001_C001 CS_OFFL_SIR_GOPM_2_20200529T072722_C001 CS_OFFL_SIR_GOPM_2_20200529T072722_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T0774020_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074002_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074000_C001 CS_OFFL_SIR_GOPM_2_20200529T074000_20200529T074001 CCCG_Alimeter Range Quality, CCCG_Backscatter Quality,	CS_OFFL_SIR_GOPM_2_20200529T062145_20200529T062411_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T070525_C001 CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T070525_C001 CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071001_C001 CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071001_C001 CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071272_C001 CS_OFFL_SIR_GOPM_2_20200529T071237_20200529T072722_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074944_C001 CS_OFFL_SIR_GOPM_2_20200529T08522_20200529T083734_C001 CS_OFFL_SIR_GOPM_2_20200529T08522_20200529T084865_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084865_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084865_C001 CS_OFFL_SIR_GOPM_2_20200529T084269_20200529T084865_C001 CS_OFFL_SIR_GOPM_2_20200529T08440_20200529T094865_C001 CS_OFFL_SIR_GOPM_2_20200529T08440_20200529T094865_C001 CS_OFFL_SIR_GOPM_2_20200529T084269_20200529T094865_C001 CS_OFFL_SIR_GOPM_2_20200529T08440_20200529T094865_C001 CS_OFFL_SIR_GOPM_2_20200529T08440_20200529T094865_C001 CS_OFFL_SIR_GOPM_2_20200529T08440_20200529T094460_20200	CS_OFFL_SIR_GOPM_2_20200529T062623_20200529T063905_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071001_C001 CS_OFFL_SIR_GOPM_2_20200529T071237_20200529T072722_C001 CS_OFFL_SIR_GOPM_2_20200529T071237_20200529T072722_C001 CS_OFFL_SIR_GOPM_2_20200529T071237_20200529T072722_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074001 CS_OFFL_SIR_GOPM_2_20200529T074200_20200529T074944_C001 CS_OFFL_SIR_GOPM_2_20200529T074200_20200529T074944_C001 CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CCG_OFFL_SIR_GOPM_2_20200529T084259_20200529T081717_C001 CCG_OFFL_SIR_GOPM_2	CS_OFFL_SIR_GOPM_2_20200529T065514_20200529T065627_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Cs_OFFL_SIR_GOPM_2_20200529T071237_20200529T072722_C001 Cs_OFFL_SIR_GOPM_2_20200529T071237_20200529T072722_C001 Cs_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 Cs_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 Cs_OFFL_SIR_GOPM_2_20200529T074200_20200529T074044_C001 Cs_OFFL_SIR_GOPM_2_20200529T074200_20200529T074944_C001 Cs_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 Cs_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 Cs_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 Cs_OFFL_SIR_GOPM_2_20200529T080522_20200529T084855_C001 Cs_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 Cs_OFFL_SIR_GOPM_2_20200529T085222_20200529T084855_C001 Cs_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Cs_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Cs_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ccan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ccan Altimeter Range, SSHA, SWH and Backscatt	CS_OFFL_SIR_GOPM_2_20200529T070217_20200529T070525_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001 CS_OFFL_SIR_GOPM_2_20200529T074200_20200529T074944_C001 CS_OFFL_SIR_GOPM_2_20200529T074200_20200529T074944_C001 CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091717_C001 CCS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091717_C001 CCS_OFFL_SIR_GOPM_2_20200529T08400_20200529T091711620_C001	CS_OFFL_SIR_GOPM_2_20200529T070527_20200529T071001_C001		
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200529T074200_20200529T074944_C001 CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T08	CS_OFFL_SIR_GOPM_2_20200529T071237_20200529T072722_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T09	CS_OFFL_SIR_GOPM_2_20200529T074001_20200529T074020_C001		
CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T091717_C001 CS_OFFL_SIR_GOPM_2_20200529T084940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 CS_OFFL_SIR_GOPM_2_20200529T094940_202	CS_OFFL_SIR_GOPM_2_20200529T074200_20200529T074944_C001		
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20200529T080522_20200529T083734_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags have been SSHA, SWH and Backscatter Quality, OCOG and Itimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Fla	CS_OFFL_SIR_GOPM_2_20200529T084259_20200529T084855_C001		
CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20200529T085222_20200529T091717_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20200529T094940_20200529T101620_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20200529T102245_20200529T102703_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_GOPM_2_20200529T103054_20200529T110001_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_GOPM_2_20200529T112256_20200529T115514_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_GOPM_2_20200529T120156_20200529T120735_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_GOPM_2_20200529T120931_20200529T121517_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_GOPM_2_20200529T123436_20200529T123553_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200529T123834_20200529T123911_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_GOPM_2_20200529T123929_20200529T124036_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_GOPM_2_20200529T124634_20200529T124748_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200529T130109_20200529T133437_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_GOPM_2_20200529T134100_20200529T134611_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_GOPM_2_20200529T134917_20200529T140749_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_GOPM_2_20200529T141721_20200529T141811_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_GOPM_2_20200529T143951_20200529T151313_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_GOPM_2_20200529T151843_20200529T152059_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_GOPM_2_20200529T152105_20200529T152517_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_GOPM_2_20200529T152917_20200529T155545_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_GOPM_2_20200529T155609_20200529T160338_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_GOPM_2_20200529T161933_20200529T162155_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_GOPM_2_20200529T162200_20200529T163036_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_GOPM_2_20200529T163516_20200529T163654_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_GOPM_2_20200529T163719_20200529T164649_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_GOPM_2_20200529T164841_20200529T165242_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_GOPM_2_20200529T165438_20200529T165958_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_GOPM_2_20200529T171111_20200529T172331_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_GOPM_2_20200529T172534_20200529T174259_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.

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CS_OFFL_SIR_GOPM_2_20200529T180506_20200529T181437_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_GOPM_2_20200529T181639_20200529T182401_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_GOPM_2_20200529T182508_20200529T183129_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_GOPM_2_20200529T183404_20200529T183858_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_GOPM_2_20200529T183901_20200529T183909_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_GOPM_2_20200529T183933_20200529T184049_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_GOPM_2_20200529T190459_20200529T191020_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_GOPM_2_20200529T191044_20200529T191312_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_GOPM_2_20200529T195441_20200529T201029_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_GOPM_2_20200529T201348_20200529T201825_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_GOPM_2_20200529T201846_20200529T202015_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_GOPM_2_20200529T202502_20200529T204822_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_GOPM_2_20200529T212422_20200529T214959_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_GOPM_2_20200529T215221_20200529T215725_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_GOPM_2_20200529T215728_20200529T215739_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_GOPM_2_20200529T215745_20200529T220109_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_GOPM_2_20200529T220432_20200529T223106_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_GOPM_2_20200529T223307_20200529T223603_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_GOPM_2_20200529T225946_20200529T230212_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_GOPM_2_20200529T230217_20200529T230909_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_GOPM_2_20200529T230911_20200529T233001_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_GOPM_2_20200529T233201_20200529T233639_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_GOPM_2_20200529T233642_20200529T234014_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_GOPM_2_20200529T234405_20200530T001758_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_GOPN_2_20200529T093056_20200529T093126_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_GOPN_2_20200529T125914_20200529T130109_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_GOPN_2_20200529T165303_20200529T165438_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_GOPR_2_20200529T011009_20200529T011017_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_GOPR_2_20200529T042442_20200529T042550_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_GOPR_2_20200529T162155_20200529T162159_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors: 103

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200529T002155_20200529T002313_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_GOPN_2_20200529T003055_20200529T003209_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_GOPN_2_20200529T012005_20200529T012016_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_GOPN_2_20200529T012245_20200529T012344_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_GOPN_2_20200529T020747_20200529T021053_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_GOPN_2_20200529T034146_20200529T034440_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_GOPN_2_20200529T034649_20200529T035212_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_GOPN_2_20200529T043116_20200529T043210_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_GOPN_2_20200529T043744_20200529T044207_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_GOPN_2_20200529T052125_20200529T052400_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_GOPN_2_20200529T055943_20200529T060300_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_GOPN_2_20200529T065408_20200529T065513_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_GOPN_2_20200529T065831_20200529T070217_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_GOPN_2_20200529T071001_20200529T071147_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_GOPN_2_20200529T073640_20200529T074000_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_GOPN_2_20200529T092518_20200529T092622_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_GOPN_2_20200529T093550_20200529T094021_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_GOPN_2_20200529T101820_20200529T101958_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_GOPN_2_20200529T102703_20200529T102955_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_GOPN_2_20200529T111801_20200529T112256_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_GOPN_2_20200529T120736_20200529T120850_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_GOPN_2_20200529T122430_20200529T122804_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_GOPN_2_20200529T123911_20200529T123929_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_GOPN_2_20200529T124541_20200529T124633_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_GOPN_2_20200529T125705_20200529T125836_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20200529T125914_20200529T130109_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_GOPN_2_20200529T133742_20200529T134100_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_GOPN_2_20200529T140750_20200529T141104_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_GOPN_2_20200529T151456_20200529T151842_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_GOPN_2_20200529T170222_20200529T170407_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_GOPN_2_20200529T174300_20200529T174805_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_GOPN_2_20200529T180107_20200529T180506_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_GOPN_2_20200529T183219_20200529T183403_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_GOPN_2_20200529T184049_20200529T184701_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_GOPN_2_20200529T185844_20200529T190458_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_GOPN_2_20200529T192241_20200529T192650_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_GOPN_2_20200529T202016_20200529T202331_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_GOPN_2_20200529T205917_20200529T210040_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_GOPN_2_20200529T210123_20200529T210512_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_GOPN_2_20200529T211608_20200529T211641_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_GOPN_2_20200529T212056_20200529T212422_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_GOPN_2_20200529T215105_20200529T215221_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_GOPN_2_20200529T223604_20200529T224204_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_GOPN_2_20200529T224948_20200529T224955_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_GOPN_2_20200529T233037_20200529T233201_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_GOPR_2_20200529T001012_20200529T001503_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_GOPR_2_20200529T011058_20200529T011118_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_GOPR_2_20200529T011138_20200529T011839_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_GOPR_2_20200529T011839_20200529T012005_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_GOPR_2_20200529T012354_20200529T012734_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_GOPR_2_20200529T013006_20200529T013327_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_GOPR_2_20200529T021053_20200529T021403_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_GOPR_2_20200529T025024_20200529T025738_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_GOPR_2_20200529T025738_20200529T030009_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_GOPR_2_20200529T030208_20200529T031223_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_GOPR_2_20200529T033514_20200529T034146_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_GOPR_2_20200529T035212_20200529T035402_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_GOPR_2_20200529T042622_20200529T042752_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_GOPR_2_20200529T043019_20200529T043116_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_GOPR_2_20200529T043211_20200529T043631_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_GOPR_2_20200529T043631_20200529T043743_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_GOPR_2_20200529T050115_20200529T050205_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_GOPR_2_20200529T051530_20200529T052125_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_GOPR_2_20200529T053238_20200529T053255_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_GOPR_2_20200529T054819_20200529T055020_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_GOPR_2_20200529T061006_20200529T061454_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_GOPR_2_20200529T061454_20200529T061640_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_GOPR_2_20200529T062411_20200529T062623_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_GOPR_2_20200529T072722_20200529T073505_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_GOPR_2_20200529T073505_20200529T073538_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_GOPR_2_20200529T074945_20200529T075601_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_GOPR_2_2020829T10421_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T0923T2_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T1052158_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T1052158_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T1052158_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T101621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T10621_2020829T101820_C001 CS_OFFL_SIR_GOPR_2_2020829T10621_2020829T10620_C001 CS_OFFL_SIR_GOPR_2_2020829T10620_C0010 CS_OFFL
and Backscatter Quality PLRM, COGG Altimeter Range, and Backscatter Quality Plags have be provided by the COGO Altimeter Range, and Backscatter Quality Plags have be set for or more records. CS_OFFL_SIR_GOPR_2_20200529T10621_20200529T10820_CO01 CS_OFFL_SIR_GOPR_2_20200529T10621_20200529T10820_CO01 CS_OFFL_SIR_GOPR_2_20200529T10621_20200529T10820_CO01 CS_OFFL_SIR_GOPR_2_20200529T10621_20200529T10820_CO01 CS_OFFL_SIR_GOPR_2_20200529T10621_20200529T10753_CO01 CS_OFFL_SIR_GOPR_2_20200529T10621_20200529T10753_CO01 CS_OFFL_SIR_GOPR_2_20200529T10753_CO01 CS_OFFL_SIR_GOPR_2_20200529T10753_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_20200529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO00529T10531_CO01 CS_OFFL_SIR_GOPR_2_20200529T10531_CO01
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for order ecords. CS_OFFL_SIR_GOPR_2_20200529T101821_20200529T111820_C001 CS_OFFL_SIR_GOPR_2_20200529T101821_20200529T110820_C001 CS_OFFL_SIR_GOPR_2_20200529T10821_20200529T110820_C001 CS_OFFL_SIR_GOPR_2_20200529T10821_20200529T110820_C001 CS_OFFL_SIR_GOPR_2_20200529T10831_20200529T110830_C001 CS_OFFL_SIR_GOPR_2_20200529T10831_20200529T110830_C001 CS_OFFL_SIR_GOPR_2_20200529T10831_20200529T118810_C001 CS_OFFL_SIR_GOPR_2_20200529T10831_20200529T118815_C001 CS_OFFL_SIR_GOPR_2_20200529T128181_20200529T118815_C001 CS_OFFL_SIR_GOPR_2_20200529T128181_20200529T12840_C001 CS_OFFL_SIR_GOPR_2_20200529T128181_20200529T128534_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T128534_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T128594_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T1285944_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T1285944_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T1285944_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T1285944_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T1285944_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T1285944_C001 CS_OFFL_SIR_GOPR_2_20200529T1285836_20200529T1285944_C001 CS_OFFL_SIR_GOPR_2_20200529T1
and Backscatter Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for orm orm or records. CS_OFFL_SIR_GOPR_2_20200529T110753_20200529T110753_C0001 CS_OFFL_SIR_GOPR_2_20200529T110756_20200529T110753_C0001 CS_OFFL_SIR_GOPR_2_20200529T110756_20200529T111801 C001 CS_OFFL_SIR_GOPR_2_20200529T110756_20200529T115815_C001 CS_OFFL_SIR_GOPR_2_20200529T115514_20200529T115815_C001 CS_OFFL_SIR_GOPR_2_20200529T12518_20200529T12518_20200529T12518_20200529T12518_20200529T12518_20200529T12518_20200529T125705_C001 CS_OFFL_SIR_GOPR_2_20200529T12418_20200529T125705_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125705_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T124318_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T1243348_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T134338_20200529T125814_C001 CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T125814_C001 COGG Altimeter Range Quality PLRM, COGG Altimeter Range and Backscatter Quality Flags have been set for orm orm orm orm orm orm orm orm orm o
OCOG Backscatter Quality CS_OFFL_SIR_GOPR_2_20200529T110756_20200529T11801_C001 CS_OFFL_SIR_GOPR_2_20200529T110756_20200529T11801_C001 CS_OFFL_SIR_GOPR_2_20200529T115514_20200529T115815_C001 CS_OFFL_SIR_GOPR_2_20200529T115514_20200529T115815_C001 CS_OFFL_SIR_GOPR_2_20200529T12518_20200529T12940_C001 CS_OFFL_SIR_GOPR_2_20200529T124215_20200529T124534_C001 CS_OFFL_SIR_GOPR_2_20200529T124215_20200529T124534_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125705_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T135914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T135914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T135914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T135914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T135914_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134918_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T1
and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality PLRM ocog Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for or o
CS_OFFL_SIR_GOPR_2_20200529T12514_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T121518_20200529T121940_C001 CS_OFFL_SIR_GOPR_2_20200529T124215_20200529T124534_C001 CS_OFFL_SIR_GOPR_2_20200529T124215_20200529T124534_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125705_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125705_C001 CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T1344377_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T1344917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T1344917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T1344917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T1344917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T1344917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T1344917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T1344917_C001 CS_OFFL_SIR_GOPR_2_20200529T134438_20200529T
CS_OFFL_SIR_GOPR_2_20200529T124518_20200529T124534_C001 CS_OFFL_SIR_GOPR_2_20200529T124215_20200529T124534_C001 CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125705_C001 CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T134737_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134737_20200529T134917_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be a
OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DOCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have be Set for one or more records. The OCOG Range and Backscatter Quality Flags have be Set for one or more records. The OCOG Range and Backscatter Quality Flags have be Set for one or more records. The OCOG Range and Backscatter Quality Flags have be Set for one or more records. The OCOG Range and Backscatter Quality Flags have be Set for one or more records. The OCOG Range and Backscatter Quality Flags have be Set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Set for one or more records.
CS_OFFL_SIR_GOPR_2_20200529T124918_20200529T125705_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20200529T125836_20200529T125914_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T134917_C001 CS_OFFL_SIR_GOPR_2_20200529T134737_20200529T134917_C001 And Backscatter Quality PLRM, 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, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range 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_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 CS_OFFL_SIR_GOPR_2_20200529T134737_20200529T134917_C001 OCOG Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPR_2_20200529T133438_20200529T133742_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_GOPR_2_20200529T134737_20200529T134917_C001 and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been decomposed and the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality flags have been decomposed as the OCOG Altimeter Range and Backscatter Quality flags
CS_OFFL_SIR_GOPR_2_20200529T141618_20200529T141720_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for or more records.
CS_OFFL_SIR_GOPR_2_20200529T141946_20200529T142109_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for or more records.
CS_OFFL_SIR_GOPR_2_20200529T142109_20200529T142548_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for ormore records.
CS_OFFL_SIR_GOPR_2_20200529T142932_20200529T143950_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 have be set for one or more records.
CS_OFFL_SIR_GOPR_2_20200529T152625_20200529T152917_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 have be set for one or more records.
CS_OFFL_SIR_GOPR_2_20200529T160852_20200529T161609_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality set for one or more records
CS_OFFL_SIR_GOPR_2_20200529T161832_20200529T161933_C001
Ucean Altimeter Range, SSHA, SWH CS_OFFL_SIR_GOPR_2_20200529T170438_20200529T171110_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH I he Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be compared to the ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be compared to the ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be compared to the ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be compared to the ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA,
CS_OFFL_SIR_GOPR_2_20200529T174806_20200529T175526_C001 and the OCOG Altimeter Range and Backscatter Quality Flags have be
Altimeter Range and Backscatter Quality Coean Aitimeter Range, SSHA, SWH Set for one or more records. The Ocean Aitimeter Range and Backscatter Quality Ine Ocean Aitimeter Range and the OCOG Altimeter Range and Backscatter Quality Iset for one or more records. Altimeter Range and Backscatter Quality Iset for one or more records. Altimeter Range and Backscatter Quality Iset for one or more records. Altimeter Range and Backscatter Quality Iset for one or more records.
Altimeter Range and Rackscatter Quality Set for one or more records. Sha, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range.
CS_OFFL_SIR_GOPR_2_20200529T194740_20200529T195233_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Backscatter Quality more records.
OCOG Backscatter Quality Ucean Altimeter Range, SSHA, SWH I he Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Ucean Altimeter Range, SSHA, SWH I he Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Ucean Altimeter Range, SSHA, SWH I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I hore records. Ucean Altimeter Range, SSHA, SWH I he Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I he Ocean Altimeter Range, SSHA, SWH I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality I he Ocean Altimeter Range and Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by the Cool Backscatter Quality Flags have been accessed by
Altimeter Range and Backscatter Quality Set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been considered and Backscatter Quali
Altimeter Range and Backscatter Quality Set for one or more records. The Ocean Altimeter Range, SSHA, SWH The Ocoan Altimeter Range and the OCOG Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been considered as the ocoan Altimeter Range and Backscatter Quality Flags have been consi
Altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_GOPR_2_20200529T224956_20200529T225106_C001 Altimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been decided as a set for one or more records. Altimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been decided as a set for one or more records. Altimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been decided as a set for one or more records. Altimeter Range and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been decided as a set for one or more records.
Altimeter Range and Backscatter Quality set for one or more records. OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Backscatter Quality more records. OCOG Altimeter Range Quality PLRM The OCOG Range and Backscatter Quality Flags have been set for or
OCOG Backscatter Quality more records. Ucean Altimeter Range, SSHA, SWH Ine Ocean Altimeter Range, SSHA, S
CS_OFFL_SIR_GOPR_2_20200529T234132_20200529T234405_C001 and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Iset 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.

190

148

0

0

0

> 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: 56

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 GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors:

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

Number of products with errors: 29

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220200529T002752_20200529T011728_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) for one or more records
CS_OFFL_SIR_GOP_2202005291011728_202005291020705_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) for one or more records
CS_OFFL_SIR_GOP_220200529T020705_20200529T025641_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220200529T025641_20200529T034619_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) for one or more records
CS_OFFL_SIR_GOP_220200529T034619_20200529T043555_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) for one or more records
CS_OFFL_SIR_GOP_220200529T043555_20200529T052532_C001	Iviean Sea Surrace (1), Iviean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220200529T052532_20200529T061509_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) for one or more records
CS_OFFL_SIR_GOP_220200529T061509_20200529T070446_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) for one or more records
CS_OFFL_SIR_GOP_220200529T070446_20200529T075422_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) for one or more records
CS_OFFL_SIR_GOP_220200529T075422_20200529T084359_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220200529T084359_20200529T093336_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FFS) Non-Equilibrium Long Period	Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220200529T093336_20200529T102313_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) for one or more records
CS_OFFL_SIR_GOP_220200529T102313_20200529T111250_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) for one or more records
CS_OFFL_SIR_GOP_220200529T111250_20200529T120227_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_GOP_220200529T120227_20200529T125203_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) for one or more records
CS_OFFL_SIR_GOP_220200529T125203_20200529T134140_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) for one or more records
CS_OFFL_SIR_GOP_220200529T134140_20200529T143117_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) for one or more records
CS_OFFL_SIR_GOP_220200529T143117_20200529T152054_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) for one or more records
CS_OFFL_SIR_GOP_220200529T152054_20200529T161030_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) for one or more records
CS_OFFL_SIR_GOP_220200529T161030_20200529T170007_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) for one or more records
CS_OFFL_SIR_GOP_220200529T170007_20200529T174944_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) for one or more records
CS_OFFL_SIR_GOP_220200529T174944_20200529T183921_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) for one or more records
CS_OFFL_SIR_GOP_220200529T183921_20200529T192857_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) for one or more records
CS_OFFL_SIR_GOP_220200529T192857_20200529T201834_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) for one or more records
CS_OFFL_SIR_GOP_220200529T201834_20200529T210811_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) for one or more records
CS_OFFL_SIR_GOP_220200529T210811_20200529T215748_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) for one or more records
CS_OFFL_SIR_GOP_220200529T215748_20200529T224725_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) for one or more records
CS_OFFL_SIR_GOP_220200529T224725_20200529T233702_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) for one or more records
CS_OFFL_SIR_GOP_220200529T233702_20200530T002638_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

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6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors: 30

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors: 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 GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors: 25

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 GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors: 30

7. GOP 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_GOPM1B	151	151	0	151	0
SIR_GOPR1B	114	114	0	114	0
SIR_GOPN1B	106	106	1	105	0
SIR_GOPM_2	151	151	103	48	0
SIR_GOPR_2	114	114	33	80	1
SIR_GOPN_2	106	106	42	64	0
SIR_GOP_P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

2

Total number of occurrences of each error

Product Type R	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_GOPR_2	1	1	1	1							
Product Type R	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR GOP 2	1	1	1	1							

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

7.2 QCC Warnings

Number of QCC reports with warnings

2234

Total number	of occurrences	of each warning
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Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	151	0	0	0	0	0	0
SIR_GOPM_2	0	0	34	37	1	40	0
SIR_GOPN1B	104	0	0	0	0	0	0
SIR_GOPN_2	0	0	10	37	5	28	33
SIR_GOPR1B	113	0	0	0	0	0	0
SIR_GOPR_2	0	1	46	48	0	38	33

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	32	27	0	0	0	0	25
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	22	0	0	24	0	35	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	19	0	50	0	58	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	8	22	0	3	28
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	26	20	47	56	32	30
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	50	0	9	69	43	12	40

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR_GOPM1B	0	0	0	0	0		
SIR_GOPM_2	0	3	0	0	0		
SIR_GOPN1B	0	0	0	47	1		
SIR_GOPN_2	31	14	0	0	0		
SIR_GOPR1B	0	0	0	114	6		
SIR_GOPR_2	54	5	2	0	0		

Produc	туре ІОННМ	OOR MVIOEPFD	NCDF MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNC	DF RBSZOPOEPFDPL	RMNCDRBSZOPOEPNCDF
SIR_GC)P_2_ 15	29	29	5	29	17	29
			·	·			
Produc	Type RPEPO	PFDPLRMSINNCD RPEPOPFD	SINNCDF RPEPOPSINNCD	F RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMI	NCDF RSSHAONCDF

SIR_GOP_2_	17	29	1//	22	29		26
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	-

SIR_GOP_2_ 29 20 16 29	

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
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			
	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			

RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0