

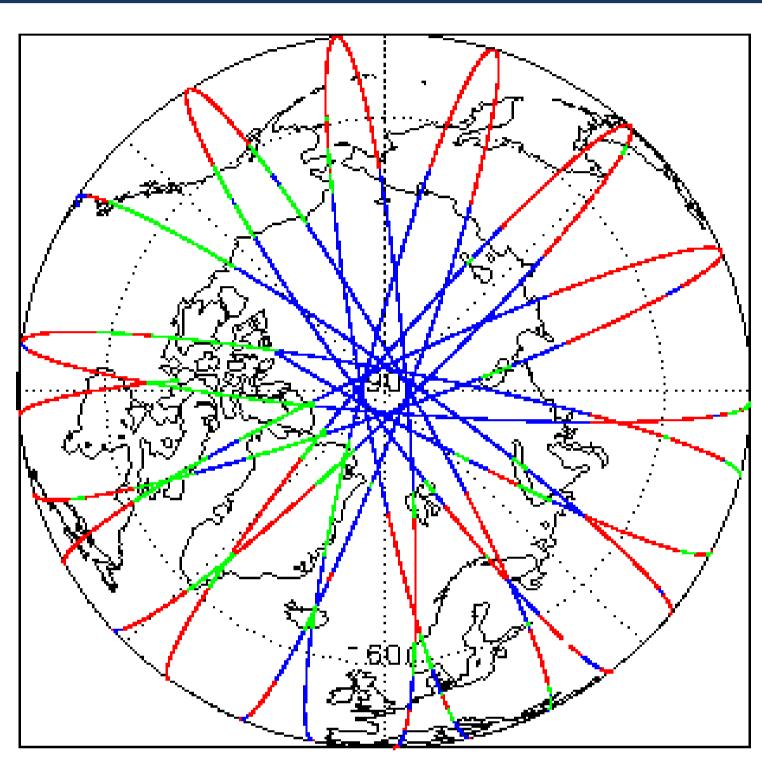
1. Overview

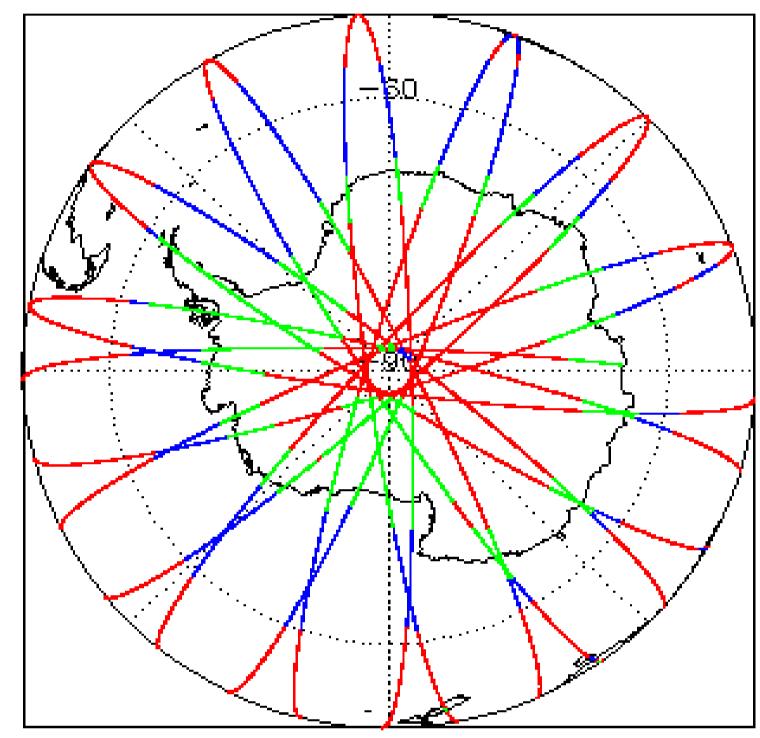
Report Production:	07-Dec-2022
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

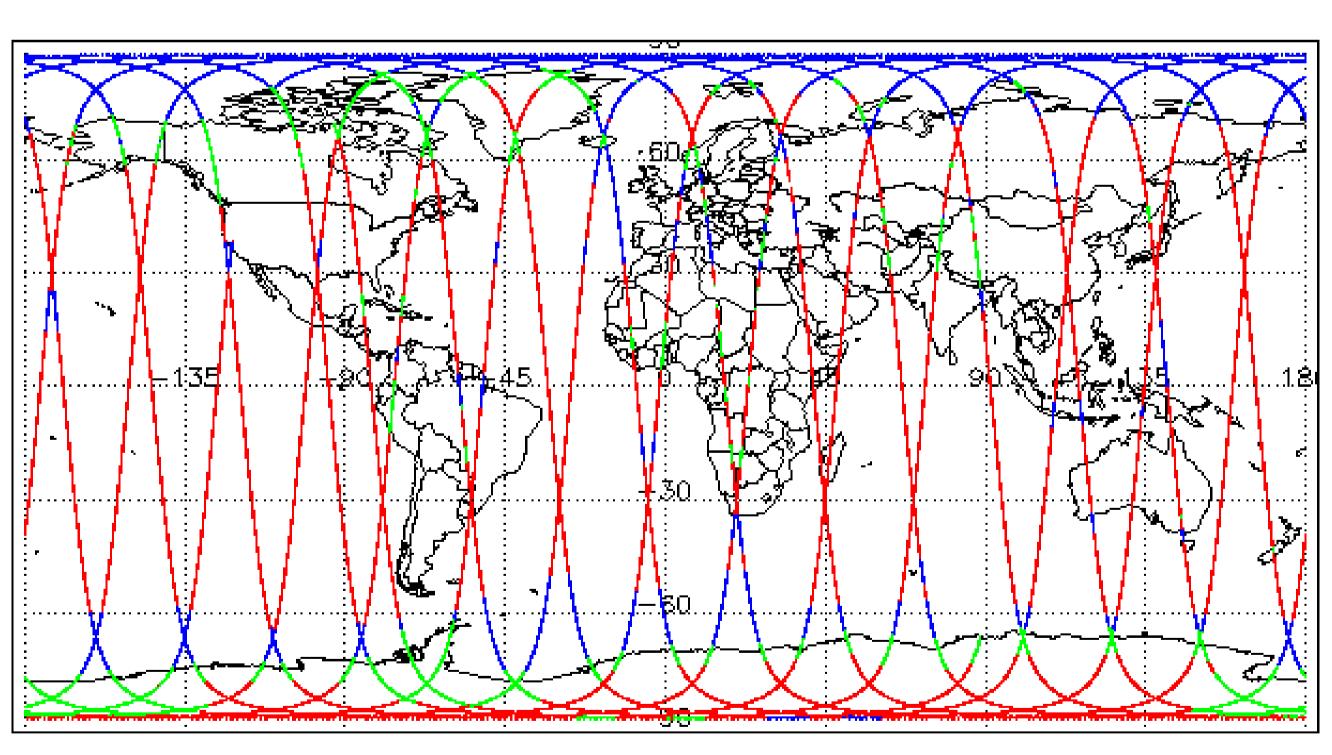
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.2	See Section 7.2 and 7.3

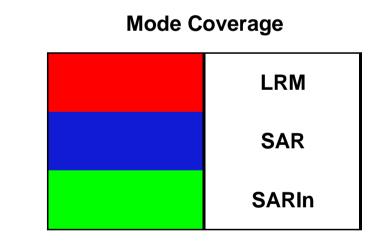
Miss	sion / Instru	ment News
05-	Nov-2022	None
06-	Nov-2022	None
07-	Nov-2022	Nothing planned

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 NetCDF product file (.nc).

4.2 L1B Product Header Analysis

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

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:

0

4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20221106T234726_20221106T235904_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

16

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20221106T003615_20221106T004719_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221106T154301_20221106T154358_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T091357_20221106T091518_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T095411_20221106T100011_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T105322_20221106T105535_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T123236_20221106T123727_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T140445_20221106T140549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T171956_20221106T172124_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T190307_20221106T190622_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T221816_20221106T222117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221106T222222_20221106T222436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221106T032934_20221106T033339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221106T073535_20221106T073813_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221106T090701_20221106T091247_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 NetCDF product file (.nc).

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

5.4 L2 Auxiliary Correction Error Check

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

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

No. 2826 Across (1), No. 1 Dearwood	Product	Test Failed	Description
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Supplication of the Control (1997) and the Co	CS_OFFL_SIR_GOPM_2_20221106T110241_20221106T110949_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
See Open 2 (2011) 1910 (1911) 2011 (1911)	CS_OFFL_SIR_GOPM_2_20221106T154301_20221106T154358_C001	IIVIean Dynamic Toboqrabny (1)	
### 1 100	CS_OFFL_SIR_GOPN_2_20221106T000812_20221106T001130_C001	Mean Dynamic Topography (1)	
25.0PH_SIR_COPN_2_222104732016_0000_100700000_000000000000000000000		Iviean Dynamic Topography (1)	or more records
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SOPELIBRE COMPLEZ ZEZZETERTERESCU ZOZZETERTERESCU ZOZZETERTERE	CS_OFFL_SIR_GOPN_2_20221106T032816_20221106T032934_C001	IIVIean Dynamic Toboqraphy (1)	
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CS_OFFL_SIR_GOPN_2_20221106T213831_20221106T214045_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_GOPN_2_20221106T222222_20221106T222436_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_GOPN_2_20221106T230851_20221106T231038_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_20221106T231723_20221106T232216_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_20221106T005316_20221106T010140_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_20221106T023010_20221106T023909_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_20221106T041036_20221106T041756_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_20221106T042058_20221106T042247_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_20221106T042727_20221106T042808_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_20221106T054739_20221106T055502_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_20221106T055502_20221106T055635_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_20221106T072730_20221106T073401_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_20221106T073401_20221106T073529_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_20221106T090701_20221106T091247_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_20221106T091247_20221106T091357_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_20221106T093620_20221106T093834_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20221106T104910_20221106T105322_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_20221106T122605_20221106T123236_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_20221106T140745_20221106T141301_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_20221106T153546_20221106T153751_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_20221106T154650_20221106T155449_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_20221106T172525_20221106T173417_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_20221106T190622_20221106T191351_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_20221106T205118_20221106T205230_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221106T234726_20221106T235904_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221106T000144_20221106T000624_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_20221106T000646_20221106T000812_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_20221106T001358_20221106T003607_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_20221106T003615_20221106T004719_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_20221106T011228_20221106T013644_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_20221106T014117_20221106T014526_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_20221106T015251_20221106T021910_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_20221106T024749_20221106T025022_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_20221106T025024_20221106T031612_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_20221106T031959_20221106T032440_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_20221106T032444_20221106T032816_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_20221106T033339_20221106T040606_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_20221106T041756_20221106T042058_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_20221106T045026_20221106T045254_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_20221106T045946_20221106T050508_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_20221106T051231_20221106T053317_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_20221106T053603_20221106T054739_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_20221106T055714_20221106T060119_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_20221106T061720_20221106T062210_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_20221106T062357_20221106T063334_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_20221106T065114_20221106T065624_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_20221106T065633_20221106T072320_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_20221106T072322_20221106T072528_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_20221106T074306_20221106T074721_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_20221106T074851_20221106T081147_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_20221106T083051_20221106T083618_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

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DESCRIPTION 2. 20221106T10733. 20221106T100405. CODI Altreder Range, SSHA. SVH and Seasonation Coulty. CODI Altreder Range, son. Such Activities Range and Seasonation Coulty. Plags and the CODIA Altreder Range and Seasonation Coulty. Plags and the CODIA Altreder Range and Seasonation Coulty. Plags and the CODIA Altreder Range and Seasonation Coulty. Plags and the CODIA Altreder Range and Seasonation Coulty. Plags and the CODIA Altreder Range and Seasonation Coulty. Plags and the CODIA Altreder Range, SSHA. SVH and Seasonation Coulty. Plags and the CODIA Altreder Range and Seasonation Coulty. Plags and the CO	CS_OFFL_SIR_GOPM_2_20221106T101008_20221106T101611_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
und Baskacater Quality CDCS CS OFFL SIR GOPN 2 20221106T110241 20221106T110980 CO1 CS OFFL SIR GOPN 2 20221106T11044 20221106T110980 CO1 CS OFFL SIR GOPN 2 20221106T11044 20221106T110980 CO1 CS OFFL SIR GOPN 2 20221106T11092 CO21 CS OFFL SIR GOPN 2 20221106T1093 CO21 CS OFFL SIR	CS_OFFL_SIR_GOPM_2_20221106T101733_20221106T102407_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
or S. OFFL_SIR_GOPM_2_20221106T110241_20221106T110349_C001 Animater Range and Educator Quality Flags have been affected to the process of concern and programs and the DOGG Alternative Range and Backscatter Quality Flags have been set for one or more records. CS. OFFL_SIR_GOPM_2_20221106T11342_20221106T11344_C001 CS. OFFL_SIR_GOPM_2_20221106T11342_20221106T113450_C001 CS. OFFL_SIR_GOPM_2_20221106T11340_20221106T113450_C001 CS. OFFL_SIR_GOPM_2_20221106T123727_20221106T124502_C001 CS. OFFL_SIR_GOPM_2_20221106T123727_20221106T124502_C001 CS. OFFL_SIR_GOPM_2_20221106T123727_20221106T13356_C001 CS. OFFL_SIR_GOPM_2_20221106T13333_20221106T13356_C001 CS. OFFL_SIR_GOPM_2_20221106T13333_C001 CS. OFFL_SIR_GOPM_2_20221106T1356_C001 CS. OFFL_SIR_GOPM_2_20221106T1556_C007_C005_C005_C005_C005_C005_C005_C005	CS_OFFL_SIR_GOPM_2_20221106T102730_20221106T104045_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and fisabscatter Quality, OCOS Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_GOPM_2_20221106T118002_20221106T114634_CO01 CS_OFFL_SIR_GOPM_2_20221106T118003_20221106T12137_CO01 CS_OFFL_SIR_GOPM_2_20221106T119003_20221106T12137_CO01 CS_OFFL_SIR_GOPM_2_20221106T119003_20221106T12137_CO01 CS_OFFL_SIR_GOPM_2_20221106T129727_20221106T12137_CO01 CS_OFFL_SIR_GOPM_2_20221106T129727_20221106T124502_CO01 CS_OFFL_SIR_GOPM_2_20221106T129727_20221106T124502_CO01 CS_OFFL_SIR_GOPM_2_20221106T129727_20221106T131328_CO01 CS_OFFL_SIR_GOPM_2_20221106T132832_20221106T131328_CO01 CS_OFFL_SIR_GOPM_2_20221106T132832_20221106T133086_CO01 CS_OFFL_SIR_GOPM_2_20221106T132832_20221106T133086_CO01 CS_OFFL_SIR_GOPM_2_20221106T132832_20221106T133086_CO01 CS_OFFL_SIR_GOPM_2_20221106T133287_20221106T135401_CO01 CS_OFFL_SIR_GOPM_2_20221106T133287_20221106T135401_CO01 CS_OFFL_SIR_GOPM_2_20221106T133287_20221106T135401_CO01 CS_OFFL_SIR_GOPM_2_20221106T133287_20221106T135401_CO01 CS_OFFL_SIR_GOPM_2_20221106T135287_20221106T135401_CO01 CS_OFFL_SIR_GOPM_2_20221106T142824_20221106T135401_CO01 CS_OFFL_SIR_GOPM_2_20221106T142824_20221106T152813_CO01 CS_OFFL_SIR_GOPM_2_20221106T145801_20221106T152813_CO01 CS_OFFL_SIR_GOPM_2_20221106T145801_20221106T152813_CO01 CS_OFFL_SIR_GOPM_2_20221106T145801_20221106T152813_CO01 CS_OFFL_SIR_GOPM_2_20221106T152813_CO01 CS_OFFL_	CS_OFFL_SIR_GOPM_2_20221106T110241_20221106T110949_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221106T115003_20221106T12137_CO01 CS_OFFL_SIR_GOPM_2_20221106T123727_20221106T124502_CO01 CS_OFFL_SIR_GOPM_2_20221106T123727_20221106T124502_CO01 CS_OFFL_SIR_GOPM_2_20221106T123727_20221106T124502_CO01 CS_OFFL_SIR_GOPM_2_20221106T123727_20221106T131328_CO01 CS_OFFL_SIR_GOPM_2_20221106T124706_20221106T131328_CO01 CS_OFFL_SIR_GOPM_2_20221106T13238_20221106T131328_CO01 CS_OFFL_SIR_GOPM_2_20221106T13238_20221106T133088_CO01 CS_OFFL_SIR_GOPM_2_20221106T132338_20221106T133088_CO01 CS_OFFL_SIR_GOPM_2_20221106T133237_20221106T133088_CO01 CS_OFFL_SIR_GOPM_2_20221106T133237_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T133237_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T133237_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T133237_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T132838_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T132838_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T132837_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T132837_20221106T13088_CO01 CS_OFFL_SIR_GOPM_2_20221106T132837_20221106T130808_CO01 CS_OFFL_SIR_GOPM_2_20221106T132837_20221106T130808_CO01 CS_OFFL_SIR_GOPM_2_20221106T132837_20221106T130808_CO01 CS_OFFL_SIR_GOPM_2_20221106T132837_20221106T130808_CO01 CS_OFFL_SIR_GOPM_2_20221106T142824_20221106T150613_CO01 CS_OFFL_SIR_GOPM_2_20221106T142824_20221106T150613_CO01 CS_OFFL_SIR_GOPM_2_20221106T142824_20221106T150613_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_CO01 CS_OFFL_SIR_GOPM_2_20221106T150816_C0021106T150808_C001 CS_OFFL_SIR_GOPM_2_202221106T150808_C001 CS_OFFL_SIR_GOPM_2_20221106T150808_C001 CS_OFFL_SIR_GOP	CS_OFFL_SIR_GOPM_2_20221106T111942_20221106T113348_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COCG Altimeter Range and Backscatter Quality Flags have been self-control of the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and the COCG Altimeter Range and Backscatter Quality Flags have been self-college and Backscatter Quality Flags have been self-colle	CS_OFFL_SIR_GOPM_2_20221106T113802_20221106T114634_C001		
and Backscatter Quality, COGG Allmeter Range and Backscatter Quality, COGG Allmeter Range and Backscatter Quality Flags have been Allmeter Range and Backscatter Quality Flags have been Allmeter Range, SSHA, SWH and Backscatter Quality, COGG Allmeter Range, SSHA, SWH and Backscatter Quality, COGG Backscatter Quality, COGG Backscatter Quality, COGG Allmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCGG Allmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OC	CS_OFFL_SIR_GOPM_2_20221106T115003_20221106T121137_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, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T133056_C001 CS_OFFL_SIR_GOPM_2_20221106T133056_C001 CS_OFFL_SIR_GOPM_2_20221106T133056_C001 CS_OFFL_SIR_GOPM_2_20221106T133056_C001 CS_OFFL_SIR_GOPM_2_20221106T133057_20221106T135401_C001 CS_OFFL_SIR_GOPM_2_20221106T133237_20221106T135401_C001 CS_OFFL_SIR_GOPM_2_20221106T135401_C001 CS_OFFL_SIR_GOPM_2_20221106T142624_20221106T145118_C001 CS_OFFL_SIR_GOPM_2_20221106T142624_20221106T145118_C001 CS_OFFL_SIR_GOPM_2_20221106T145817_20221106T150513_C001 CS_OFFL_SIR_GOPM_2_20221106T150517_20221106T150513_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T	CS_OFFL_SIR_GOPM_2_20221106T123727_20221106T124502_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Range SHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been St for one or more records CS_OFFL_SIR_GOPM_2_20221106T145917_20221106T150513_C001 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_C001 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T15300_C001 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T1657554_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T1657554_2	CS_OFFL_SIR_GOPM_2_20221106T124906_20221106T131328_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
And Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T142624_20221106T145118_CO01 CS_OFFL_SIR_GOPM_2_20221106T142624_20221106T145118_CO01 CS_OFFL_SIR_GOPM_2_20221106T145917_20221106T150513_CO01 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T152813_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_CO01 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153400_CO01 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_CO01 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_CO01 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T16305_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T16305_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL_SIR_GOPM_2_20221106T15754_20221106T163038_CO01 CS_OFFL	CS_OFFL_SIR_GOPM_2_20221106T132938_20221106T133056_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_20221106T145917_20221106T150513_C001 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T150513_C001 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_C001 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_C001 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 Altimeter Range and Backscatter Quality COCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T163038_C001 CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCEAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20221106T133237_20221106T135401_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_C001 CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T152813_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T164345_C001 CS_OFFL_SIR_GOPM_2_20221106T164345_C001 CS_OFFL_SIR_GOPM_2_20221106T164345_C001 CS_OFFL_SIR_GOPM_2_20221106T164345_C001 CS_OFFL_SIR_GOPM_2_20	CS_OFFL_SIR_GOPM_2_20221106T142624_20221106T145118_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_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001 CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T163038_C001 CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T1634345_C001 CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T1634345_C001 CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T164345_C001	CS_OFFL_SIR_GOPM_2_20221106T145917_20221106T150513_C001		
CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T163038_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20221106T150837_20221106T152813_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T164345_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20221106T152816_20221106T153100_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altimeter Range and Backscatter Quality Flags have been set The OCOG Altime	CS_OFFL_SIR_GOPM_2_20221106T154405_20221106T154600_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
U.S. OFFI, SIR (30PM / 202211061163825-202211061164345-0001	CS_OFFL_SIR_GOPM_2_20221106T155754_20221106T163038_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20221106T163825_20221106T164345_C001		
CS_OFFL_SIR_GOPM_2_20221106T165022_20221106T165151_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records	CS_OFFL_SIR_GOPM_2_20221106T165022_20221106T165151_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

D. COTT. BIT COTTLE DE COT	CS_OFFL_SIR_GOPM_2_20221106T171720_20221106T171746_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Court Cour	CS_OFFL_SIR_GOPM_2_20221106T171746_20221106T171823_C001		
Col.	CS_OFFL_SIR_GOPM_2_20221106T172124_20221106T172525_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Seg. OPPL_2_8221 NOT17273_0221	CS_OFFL_SIR_GOPM_2_20221106T173450_20221106T173507_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CR OPF SR COPM 2 7227-1001174016 10221105119126 COPM	CS_OFFL_SIR_GOPM_2_20221106T173545_20221106T173701_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SS OFFI, SIR COMI, 2 2022** OFTI-VES 5-2022** IDENTIFIED (CO.) SO OFFI, SIR COMI, 2 2022** OFTI-VES 6-2022** IDENTIFIED (CO.) SO OFFI, SIR COMI, 2 2022** OFTI-VES 6-2022** IDENTIFIED (CO.) SO OFFI, SIR COMI, 2 2022** OFTI-VES 6-2022** IDENTIFIED (CO.) OPEN A financial flavors, SSI N, SVIII and Deciderable Cloudly. Comits of the common of the comm	CS_OFFL_SIR_GOPM_2_20221106T173705_20221106T174629_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sedeparter Castly Coord Afferder Farge, SSI A, SWI and Bodiscotter Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Bodiscotter Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Bodiscotter Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Bodiscotter Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Bodiscotter Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Bodiscotter Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Bodiscotter Quality Flags and for OCOS Alternate Farge and Bodiscotter Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and for OCOS Alternate Farge, SSI A, SWI and Reduced Quality Flags and f	CS_OFFL_SIR_GOPM_2_20221106T174915_20221106T181036_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
25.0FTL_SIR_GOPV_2_20221108T108198_20221108T108248_C001	CS_OFFL_SIR_GOPM_2_20221106T181836_20221106T182242_C001		
### Additionate Program College Colleg	CS_OFFL_SIR_GOPM_2_20221106T182815_20221106T183749_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. OCOO Altrineter Range and Backscatter Quality. Flags have been Arrived Range and Backscatter Quality. Flags have been Arrived Range and Backscatter Quality. Flags R. GOPM_2_2022*1081*91458_2022*1081*19918_COOO Altrineter Range Quality. OCOO Altrineter Range Quality. OCOO Altrineter Range and Backscatter Quality. Flags have been Arrived Range Quality. OCOO Altrineter Range and Backscatter Quality. Flags have been set for on or more secords. CS. OFFL SIR GOPM 2_2022*106T201422_2022*1106T211246_OCOO Altrineter Range and Backscatter Quality. Flags have been set for on or more secords. CS. OFFL SIR GOPM 2_2022*106T201422_2022*106T21134_OCOO Altrineter Range and Backscatter Quality. Flags have been set for one or more secords. CS. OFFL SIR GOPM 2_2022*106T211440_2022*106T211345_OCOO Altrineter Range and Backscatter Quality. Flags have been set for one or more secords. CS. OFFL SIR GOPM 2_2022*106T211450_2022*105T21356_OCOO Altrineter Range and Backscatter Quality. Flags have been set for one or more secords. CS. OFFL SIR GOPM 2_2022*106T21350_2022*105T21585_OCOO Altrine	CS_OFFL_SIR_GOPM_2_20221106T183936_20221106T184547_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the DCOG Allmeter Range and Backscatter Quality, Plags have been set for one or nor nor nor records CS_OFIL_SIR_GOPM_2_202211067195218_20221106720532_CO01 CS_OFIL_SIR_GOPM_2_20221106720628_20221106720532_CO01 CS_OFIL_SIR_GOPM_2_20221106720628_20221106720532_CO01 CS_OFIL_SIR_GOPM_2_20221106720628_20221106720532_CO01 CS_OFIL_SIR_GOPM_2_20221106720638_20221106720532_CO01 CS_OFIL_SIR_GOPM_2_20221106720638_202211067205332_CO01 CS_OFIL_SIR_GOPM_2_20221106720537_202211067205346_CO01 CS_OFIL_SIR_GOPM_2_20221106720537_202211067205346_CO01 CS_OFIL_SIR_GOPM_2_20221106720537_202211067205384_CO01 CS_OFIL_SIR_GOPM_2_20221106720537_202211067205384_CO01 CS_OFIL_SIR_GOPM_2_20221106720537_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106720537_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721344_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_20221106721348_CO01 CS_OFIL_SIR_GOPM_2_20221106721348_202211067213857_CO01 CS_OFIL_SIR_GOPM_2_20221106722332_C02211067213857_CO01 CS_OFIL_SIR_GOPM_2_20221106722333_202211067213857_CO01 CS_OFIL_SIR_GOPM_2_20221106722333_2022110672333_C001 CS_OFIL_SIR_GOPM_2_20221106722333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106722333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106722333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106722333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106722333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106722333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106723333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106723333_20221106722333_C001 CCS_OFIL_SIR_GOPM_2_20221106723333_20221106723333_C001 CCS_OFIL_SIR_GOPM_2_20221106723333_20221106723333_C001	CS_OFFL_SIR_GOPM_2_20221106T184731_20221106T185211_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221106T209828_20121106T203923_C0101 CS_OFFL_SIR_GOPM_2_20221106T209828_20121106T203932_C0101 CS_OFFL_SIR_GOPM_2_20221106T209828_20121106T204913_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204913_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204913_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204934_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204934_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204934_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204934_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204934_C0101 CS_OFFL_SIR_GOPM_2_20221106T204932_201106T204934_C0101 CS_OFFL_SIR_GOPM_2_20221106T211346_201106T211344_C0101 CS_OFFL_SIR_GOPM_2_20221106T211346_201106T211344_C0101 CS_OFFL_SIR_GOPM_2_20221106T211340_20121106T211347_C0101 CS_OFFL_SIR_GOPM_2_20221106T211340_20121106T211347_C0101 CS_OFFL_SIR_GOPM_2_20221106T211340_20121106T211367_C0101 CS_OFFL_SIR_GOPM_2_20221106T21367_20121106T213687_C0101 CS_OFFL_SIR_GOPM_2_20221106T213693_201106T213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T213693_201106T213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T213693_201106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T213693_201106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T213693_201106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T213693_201106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T2213693_201106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20221106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20121106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20121106T223633_20121106T2213867_C0101 CS_OFFL_SIR_GOPM_2_20121106T223633	CS_OFFL_SIR_GOPM_2_20221106T191456_20221106T194916_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
ond Backscatter Quality (COG Altimeter Range and Backscatter Quality Flags have been self for one or records CS_OFFL_SIR_GOPM_2_20221106T204054_20221106T204313_C0001 CS_OFFL_SIR_GOPM_2_20221106T204054_20221106T204313_C0001 CS_OFFL_SIR_GOPM_2_20221106T205327_20221106T205346_C0001 CS_OFFL_SIR_GOPM_2_20221106T205327_20221106T205346_C0001 CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211245_C0001 CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211245_C0001 CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211345_C001 CS_OFFL_SIR_GOPM_2_20221106T211345_20221106T211345_C001 CS_OFFL_SIR_GOPM_2_20221106T211345_20221106T21345_C001 CS_OFFL_SIR_GOPM_2_20221106T211345_20221106T21345_C001 CS_OFFL_SIR_GOPM_2_20221106T211345_20221106T212345_C001 CS_OFFL_SIR_GOPM_2_20221106T21345_20221106T212345_C001 CS_OFFL_SIR_GOPM_2_20221106T21345_20221106T212345_C001 CS_OFFL_SIR_GOPM_2_20221106T21345_20221106T21345_C001 CS_OFFL_SIR_GOPM_2_20221106T21345_20221106T21345_C001 CS_OFFL_SIR_GOPM_2_20221106T21345_20221106T21345_C001 CS_OFFL_SIR_GOPM_2_20221106T21345_20221106T21345_C001 CS_OFFL_SIR_GOPM_2_20221106T22355_20221106T22353_C001 CS_OFFL_SIR_GOPM_2_20221106T22355_20221106T22353_C001 CS_OFFL_SIR_GOPM_2_20221106T22355_20221106T22353_C001 CS_OFFL_SIR_GOPM_2_20221106T22355_20221106T22553_C001 CS_OFFL_SIR_GOPM_2_20221106T22355_20221106T22535_20221106T22555_20221106T22555_20221106T22555_20221106T22555_20221106T2555_20221106T2555_20021106T2555_	CS_OFFL_SIR_GOPM_2_20221106T195219_20221106T195728_C001		
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221106T205327_20221106T205346_C001 CS_OFFL_SIR_GOPM_2_20221106T205327_20221106T205346_C001 CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211245_C001 CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211344_C001 CS_OFFL_SIR_GOPM_2_20221106T211345_C001 CS_OFFL_SIR_GOPM_2_20221106T211345_C001 CS_OFFL_SIR_GOPM_2_20221106T211350_20221106T21345_C001 CS_OFFL_SIR_GOPM_2_20221106T21350_20221106T213672_C001 CS_OFFL_SIR_GOPM_2_20221106T213672_C001 CS_OFFL_SIR_GOPM_2_20221106T213672_C001 CS_OFFL_SIR_GOPM_2_20221106T213672_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223633_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223633_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223633_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223633_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223633_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223633_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T223633_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T236632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T236632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T236632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T236632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T236632_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20221106T236632_C001 CS_OFFL	CS_OFFL_SIR_GOPM_2_20221106T200828_20221106T203923_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211245_C001 CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211245_C001 CS_OFFL_SIR_GOPM_2_20221106T211248_20221106T211314_C001 CS_OFFL_SIR_GOPM_2_20221106T211248_20221106T211314_C001 CS_OFFL_SIR_GOPM_2_20221106T211248_20221106T211314_C001 CS_OFFL_SIR_GOPM_2_20221106T211350_20221106T21314_C001 CS_OFFL_SIR_GOPM_2_20221106T211350_20221106T21314_C001 CS_OFFL_SIR_GOPM_2_20221106T21350_20221106T212845_C001 CS_OFFL_SIR_GOPM_2_20221106T21350_20221106T212845_C001 CS_OFFL_SIR_GOPM_2_20221106T21350_20221106T21360_C001 CS_OFFL_SIR_GOPM_2_20221106T21350_20221106T21360_C001 CS_OFFL_SIR_GOPM_2_20221106T21350_C0021106T21360_C001 CS_OFFL_SIR_GOPM_2_20221106T21350_C0021106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T21360_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T21360_20221106T221865_C001 CS_OFFL_SIR_GOPM_2_20221106T21360_20221106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221865_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T22025_20221106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T22025_20221106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T220353_20021106T221866_C001 CS_OFFL_SIR_GOPM_2_20221106T223633_20021106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T236712_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T236712_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T236712_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T236712_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T236712_C001 CS_OFFL_SIR_GOPM_2_20221106T22525353_20221106T	CS_OFFL_SIR_GOPM_2_20221106T204054_20221106T204313_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T211248_20221106T211314_CO01 CS_OFFL_SIR_GOPM_2_20221106T211360_20221106T21346_CO01 CS_OFFL_SIR_GOPM_2_20221106T211360_20221106T212845_CO01 CS_OFFL_SIR_GOPM_2_20221106T213121 20221106T21360_CO01106T21360_CO021106T21360_CO021106T21360_CO01106	CS_OFFL_SIR_GOPM_2_20221106T205327_20221106T205346_C001		
and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS OFFL SIR GOPM 2 20221106T213121 20221106T213627 C001 CS OFFL SIR GOPM 2 20221106T213121 20221106T213627 C001 CS OFFL SIR GOPM 2 20221106T214602 20221106T215606 C001 CS OFFL SIR GOPM 2 20221106T214602 20221106T215606 C001 CS OFFL SIR GOPM 2 20221106T22025 20221106T221816 C001 CS OFFL SIR GOPM 2 20221106T223631 20221106T223632 C001 CS OFFL SIR GOPM 2 20221106T223633 20221106T225213 C001 CS OFFL SIR GOPM 2 20221106T223635 20221106T225213 C001 CS OFFL SIR GOPM 2 20221106T223635 20221106T225213 C001 CS OFFL SIR GOPM 2 20221106T225353 20221106T230712 C001 CS OFFL SIR GOPM 2 20221106T230305 20221106T230712 C001 CS OFFL SIR GOPM 2 20221106T230305 20221106T2	CS_OFFL_SIR_GOPM_2_20221106T205422_20221106T211245_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T213121_20221106T213627_C001 CS_OFFL_SIR_GOPM_2_20221106T213121_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T214602_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T2215606_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T22023631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T23635_20021106T	CS_OFFL_SIR_GOPM_2_20221106T211248_20221106T211314_C001	and Backscatter Quality, OCOG	
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221106T214602_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T214602_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T23533_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T235353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T235353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T235353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T235353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T2235353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T23		,	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T22025_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T22025_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T225353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T225353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T225353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T225353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T2231038_20221106T230712_C001 CCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T2231038_20221106T230712_C001 CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20221106T211350_20221106T212845_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221106T22025_20221106T221816_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 CS_OFFL_SIR_GOPM_2_20221106T225353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T225353_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T231038_20221106T230712_C001 CS_OFFL_SIR_GOPM_2_20221106T231038_20221106T231538_C001 And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records		Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	Set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_GOPM_2_20221106T213121_20221106T213627_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221106T225353_20221106T230712_C001 and Backscatter Quality, 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 set for one or more records CS_OFFL_SIR_GOPM_2_20221106T231038_20221106T231538_C001	CS_OFFL_SIR_GOPM_2_20221106T213121_20221106T213627_C001 CS_OFFL_SIR_GOPM_2_20221106T214602_20221106T215606_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20221106T2353_20221106T230712_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and the OCOG Altimeter Range and Backscatter Quality Flags have been set occurred and th	CS_OFFL_SIR_GOPM_2_20221106T213121_20221106T213627_C001 CS_OFFL_SIR_GOPM_2_20221106T214602_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range 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 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFI SIR GOPM 2 202211061231038 202211061231538 C001	CS_OFFL_SIR_GOPM_2_20221106T213121_20221106T213627_C001 CS_OFFL_SIR_GOPM_2_20221106T214602_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_GOPM_2_20221106T213121_20221106T213627_C001 CS_OFFL_SIR_GOPM_2_20221106T214602_20221106T215606_C001 CS_OFFL_SIR_GOPM_2_20221106T220225_20221106T221816_C001 CS_OFFL_SIR_GOPM_2_20221106T223631_20221106T223632_C001 CS_OFFL_SIR_GOPM_2_20221106T223635_20221106T225213_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	Set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPM_2_20221106T232341_20221106T234604_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_20221106T234726_20221106T235904_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_20221106T010848_20221106T011228_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

Number of products with errors:

94

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20221106T000812_20221106T001130_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_20221106T004719_20221106T004842_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_20221106T004927_20221106T005316_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_20221106T010433_20221106T010448_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_20221106T013906_20221106T014117_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_20221106T040809_20221106T040941_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_20221106T042652_20221106T042727_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_20221106T043845_20221106T043919_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_20221106T050509_20221106T050818_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_20221106T061400_20221106T061720_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_20221106T063801_20221106T063923_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_20221106T064408_20221106T064736_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_20221106T081846_20221106T082121_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_20221106T082314_20221106T082634_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_20221106T082734_20221106T082942_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_20221106T085938_20221106T090037_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_20221106T095411_20221106T100011_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_20221106T104821_20221106T104910_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_20221106T105322_20221106T105535_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_20221106T105714_20221106T105930_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_20221106T111558_20221106T111942_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_20221106T114634_20221106T114828_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_20221106T121318_20221106T121644_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_20221106T121728_20221106T121842_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_20221106T123236_20221106T123727_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_20221106T131904_20221106T131958_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221106T145520_20221106T145641_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_20221106T145657_20221106T145917_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_20221106T155449_20221106T155604_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_20221106T155623_20221106T155754_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_20221106T163512_20221106T163825_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_20221106T164345_20221106T164501_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_20221106T165822_20221106T165928_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_20221106T171956_20221106T172124_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_20221106T173701_20221106T173705_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_20221106T181355_20221106T181714_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_20221106T184547_20221106T184643_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_20221106T184702_20221106T184731_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_20221106T190307_20221106T190622_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_20221106T204423_20221106T204521_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_20221106T215606_20221106T215712_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_20221106T221816_20221106T222117_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_20221106T222222_20221106T222436_C001	TAITIMETER RANGE AND BACKSCATTER CITIALITY	The Ocean Altimeter Range, SSHA, SWH 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_20221106T230851_20221106T231038_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_20221106T231723_20221106T232216_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_20221106T005316_20221106T010140_C001	TAITIMETER Range and Backscatter Chality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_GOPR_2_20221106T010830_20221106T010848_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_20221106T015026_20221106T015251_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_20221106T023010_20221106T023909_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_20221106T023938_20221106T024157_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_20221106T024724_20221106T024749_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_20221106T031612_20221106T031835_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_20221106T032934_20221106T033339_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_20221106T040732_20221106T040757_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_20221106T041036_20221106T041756_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_20221106T042058_20221106T042247_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_20221106T045254_20221106T045819_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_20221106T050818_20221106T051231_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_20221106T054739_20221106T055502_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_20221106T060643_20221106T060840_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_20221106T063334_20221106T063801_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_20221106T064736_20221106T065114_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_20221106T072730_20221106T073401_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_20221106T073401_20221106T073529_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_20221106T073535_20221106T073813_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_20221106T081147_20221106T081846_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_20221106T090701_20221106T091247_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_20221106T091247_20221106T091357_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_20221106T093620_20221106T093834_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_20221106T104640_20221106T104716_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_20221106T104910_20221106T105322_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_20221106T113348_20221106T113614_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_20221106T122515_20221106T122605_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_20221106T122605_20221106T123236_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_20221106T131328_20221106T131549_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_20221106T140745_20221106T141301_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_20221106T145118_20221106T145520_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_20221106T150641_20221106T150837_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_20221106T154650_20221106T155449_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_20221106T163038_20221106T163512_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_20221106T164501_20221106T165022_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_20221106T171829_20221106T171956_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_20221106T172525_20221106T173417_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_20221106T181036_20221106T181355_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_20221106T182407_20221106T182815_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_20221106T190622_20221106T191351_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_20221106T194950_20221106T195033_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

196

> 1 Hz and 1 Hz 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 (20 Hz)

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

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

Number of products with errors: 69

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors: 146

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.

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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 that are expected, due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues that 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_220221106T000630_20221106T005608_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_220221106T005608_20221106T014544_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_220221106T014544_20221106T023523_C001		There is an error with the MSS height (solution 1), the Mean Dynamic 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_220221106T023523_20221106T032459_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_220221106T032459_20221106T041437_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_220221106T041437_20221106T050414_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_220221106T050414_20221106T055352_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_220221106T055352_20221106T064328_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220221106T064328_20221106T073307_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_220221106T073307_20221106T082243_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_220221106T082243_20221106T091221_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_220221106T091221_20221106T100158_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography 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_220221106T100158_20221106T105136_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_220221106T105136_20221106T114112_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220221106T114112_20221106T123051_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_220221106T123051_20221106T132027_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_220221106T132027_20221106T141005_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_220221106T141005_20221106T145942_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography 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_220221106T145942_20221106T154920_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_220221106T154920_20221106T163857_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_220221106T163857_20221106T172835_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_220221106T172835_20221106T181811_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_220221106T181811_20221106T190749_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography 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_220221106T190749_20221106T195726_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_220221106T195726_20221106T204704_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
	Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dyna Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dyna

CS_OFFL_SIR_GOP_220221106T204704_20221106T213640_C001	Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic 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_220221106T213640_20221106T222619_C001	` / '	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_220221106T222619_20221106T231555_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_220221106T231555_20221107T000533_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) 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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220221106T231555_20221107T000533_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

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

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

Number of products with errors: 30

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors: 30

P2P Quality Flags (1 Hz & 1 Hz PLRM)

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

Number of products with errors: 29

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors: 28

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.

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Number of products with errors: 29

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	188	188	4	184	0
SIR_GOPR1B	117	117	0	117	0
SIR_GOPN1B	109	109	3	106	0
SIR_GOPM_2	188	188	127	61	0
SIR_GOPR_2	117	117	40	77	0
SIR_GOPN_2	109	109	44	65	0
SIR_GOP_P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC reports with warnings 217

Total number of occurrences of each warning

Total number of occurrences of each warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOPM1B	184	0	0	0	0	0	0
SIR_GOPM_2	0	45	45	1	46	0	36
SIR_GOPN1B	105	0	0	0	0	0	0
SIR_GOPN_2	0	12	32	7	29	29	20
SIR_GOPR1B	113	0	0	0	0	0	0
SIR_GOPR_2	0	32	44	2	34	29	12

Product Type	RDACONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	1	35	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	0	0	25	0	32
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	1	1	0	39	0	48	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	31	0	0	5	26	0	2
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	28	13	38	51	29
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	0	38	0	0	63	38	10

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_GOPM1B	0	0	0	2	0	0	0
SIR_GOPM_2	40	0	3	2	0	0	0
SIR_GOPN1B	0	0	0	1	0	47	2
SIR_GOPN_2	28	27	8	0	0	0	0
SIR_GOPR1B	0	0	0	0	0	117	3
SIR GOPR 2	39	43	0	0	2	0	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	15	29	29	7	29	17	26

Pr	roduct Type	RDACONCDF	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF
S	SIR_GOP_2_	1	2	17	29	27	14	29

Product Type	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-
SIR_GOP_2_	19	20	29	18	10	29	

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM 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			
RDACONCDF	RangeDynamicAtmosphericCorrectionOceanNetCDF	#N/A			
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)			
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample			
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter			

7.3 Missing QCC Reports

Number of products with missing QCC reports:

L1B and L2 Product name

n/a

P2P Product name

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