

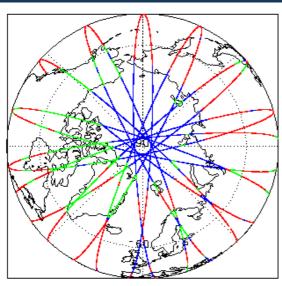
1. Overview

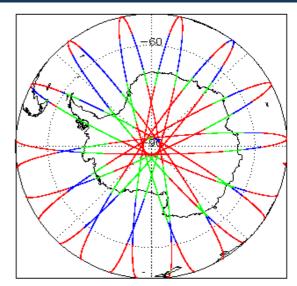
Report Production:	28-Nov-2022	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

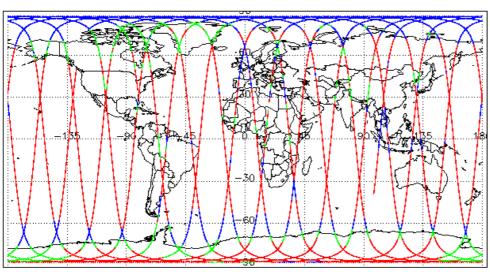
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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

I	Mission / Instru	ment News
	27-Oct-2022	None
	28-Oct-2022	None
	29-Oct-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:

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.

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_20221028T203218_20221028T204051_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20221028T225405_20221028T225556_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20221028T093212_20221028T094352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221028T101816_20221028T103432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221028T220027_20221028T221006_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20221028T231456_20221028T231710_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T000739_20221028T001246_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T033547_20221028T033623_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T083321_20221028T083712_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T115137_20221028T115352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T180255_20221028T180436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T191037_20221028T191454_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T213708_20221028T214125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T214233_20221028T214340_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221028T231710_20221028T232238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221028T041414_20221028T041703_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:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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 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
- > 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:

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CS_OFFL_SIR_GOPN_2_20221028T000739_20221028T001246_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_20221028T010735_20221028T010949_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_20221028T014530_20221028T015109_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_20221028T032347_20221028T032805_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221028T041703_20221028T041828_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_20221028T050532_20221028T050728_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_20221028T055635_20221028T055800_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_20221028T060314_20221028T060616_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_20221028T073639_20221028T073944_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_20221028T074216_20221028T074729_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_20221028T083321_20221028T083712_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221028T091655_20221028T091929_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_20221028T101207_20221028T101324_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_20221028T101532_20221028T101816_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221028T105154_20221028T105803_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_20221028T115137_20221028T115352_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_20221028T123416_20221028T123558_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_20221028T133101_20221028T133546_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_20221028T142234_20221028T142515_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_20221028T155338_20221028T155728_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_20221028T165440_20221028T165608_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20221028T173319_20221028T173634_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_20221028T174147_20221028T174304_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_20221028T182421_20221028T182447_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20221028T192053_20221028T192207_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_20221028T200008_20221028T200243_C001	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 Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20221028T200307_20221028T200430_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_20221028T213708_20221028T214125_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 (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20221028T214233_20221028T214340_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_20221028T223630_20221028T223903_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_20221028T231710_20221028T232238_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_20221028T001246_20221028T001808_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_20221028T015109_20221028T020040_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_20221028T032806_20221028T033547_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_20221028T050728_20221028T051409_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_20221028T051409_20221028T051613_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_20221028T064611_20221028T065309_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_20221028T065309_20221028T065504_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_20221028T082731_20221028T083205_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_20221028T083205_20221028T083321_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_20221028T094352_20221028T094520_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_20221028T100537_20221028T101041_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_20221028T101041_20221028T101207_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_20221028T114715_20221028T115137_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_20221028T132246_20221028T132301_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_20221028T132301_20221028T132635_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_20221028T132653_20221028T133101_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_20221028T150507_20221028T151140_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_20221028T163350_20221028T163455_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_20221028T164457_20221028T165245_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_20221028T182447_20221028T183325_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_20221028T200430_20221028T201200_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_20221028T214340_20221028T214902_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_20221028T223903_20221028T224123_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20221028T232238_20221028T232930_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221028T203218_20221028T204051_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20221028T225405_20221028T225556_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_20221027T235820_20221028T000407_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221028T000529_20221028T000739_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_20221028T002720_20221028T002726_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_20221028T003428_20221028T005523_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_20221028T010044_20221028T010431_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_20221028T011158_20221028T013924_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_20221028T021122_20221028T023455_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_20221028T023827_20221028T024345_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_20221028T025114_20221028T032347_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_20221028T033705_20221028T033830_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_20221028T034640_20221028T040052_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_20221028T040104_20221028T040628_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_20221028T041018_20221028T041414_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_20221028T041828_20221028T042623_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_20221028T043204_20221028T050342_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_20221028T051613_20221028T051801_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_20221028T054413_20221028T055227_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_20221028T055801_20221028T060314_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_20221028T061030_20221028T063128_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_20221028T063414_20221028T064556_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_20221028T065504_20221028T065819_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_20221028T071414_20221028T072021_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_20221028T072209_20221028T073202_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_20221028T074942_20221028T081942_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_20221028T081957_20221028T082318_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_20221028T083726_20221028T090955_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_20221028T091929_20221028T092124_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_20221028T092323_20221028T092629_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20221028T092856_20221028T093204_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221028T093212_20221028T094351_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_20221028T094555_20221028T095631_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_20221028T101816_20221028T103432_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_20221028T105803_20221028T110045_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_20221028T110102_20221028T110530_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_20221028T110838_20221028T112218_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_20221028T112358_20221028T112641_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_20221028T114031_20221028T114526_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_20221028T115709_20221028T115926_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_20221028T120049_20221028T120639_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_20221028T120923_20221028T121156_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_20221028T121202_20221028T123211_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_20221028T123558_20221028T124438_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_20221028T124825_20221028T131202_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_20221028T131433_20221028T131516_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_20221028T134707_20221028T141128_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_20221028T141814_20221028T142234_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_20221028T142745_20221028T145151_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_20221028T145631_20221028T145859_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_20221028T150237_20221028T150507_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_20221028T151919_20221028T154909_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_20221028T155728_20221028T160314_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_20221028T160646_20221028T161058_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_20221028T161451_20221028T162142_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_20221028T163256_20221028T163350_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20221028T164222_20221028T164414_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221028T165608_20221028T172905_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_20221028T173634_20221028T174146_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_20221028T174720_20221028T180255_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_20221028T181906_20221028T182000_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_20221028T182121_20221028T182308_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_20221028T183325_20221028T184443_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_20221028T184729_20221028T190322_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_20221028T190327_20221028T190831_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_20221028T191454_20221028T191635_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_20221028T191642_20221028T192053_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_20221028T192621_20221028T194506_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_20221028T194543_20221028T195020_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_20221028T195110_20221028T195821_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_20221028T195821_20221028T195956_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_20221028T201234_20221028T201239_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_20221028T201624_20221028T203055_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_20221028T203218_20221028T204051_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_20221028T204053_20221028T204745_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_20221028T205010_20221028T205534_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_20221028T205553_20221028T205813_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_20221028T210641_20221028T211908_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_20221028T212013_20221028T213708_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_20221028T220027_20221028T221006_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_20221028T221209_20221028T222632_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_20221028T222938_20221028T223433_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (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:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20221028T000739_20221028T001246_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_20221028T002845_20221028T003244_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_20221028T005731_20221028T010044_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_20221028T014530_20221028T015109_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_20221028T020235_20221028T020238_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_20221028T021031_20221028T021122_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_20221028T023658_20221028T023827_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_20221028T024719_20221028T024842_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_20221028T032347_20221028T032805_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_20221028T050532_20221028T050728_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_20221028T051801_20221028T051838_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_20221028T051945_20221028T052108_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_20221028T060314_20221028T060616_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_20221028T073639_20221028T073944_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_20221028T083321_20221028T083712_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_20221028T092629_20221028T092753_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_20221028T095631_20221028T095913_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_20221028T101532_20221028T101816_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_20221028T114655_20221028T114715_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_20221028T115137_20221028T115352_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_20221028T120800_20221028T120922_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_20221028T124439_20221028T124624_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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COCO BASCASCE CASTA PARA DOCO AFFECT Regs (CASTA) CASTA CASTA PARA CASTA DOCO AFFECT Regs (CASTA) CASTA CASTA PARA CASTA DOCO AFFECT Regs (CASTA) CASTA PARA DOCO AFFECT Regs (CASTA) CASTA DOCO AFFECT REGs (CASTA)	CS_OFFL_SIR_GOPN_2_20221028T133101_20221028T133546_C001		
De Billioner Coulty P-RAC (COO) Billioner Ringer (SUR) Billioner Ringer (SUR	CS_OFFL_SIR_GOPN_2_20221028T133636_20221028T133758_C001		
Comparison	CS_OFFL_SIR_GOPN_2_20221028T141354_20221028T141527_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. OPTL_SR_COPTL_2 2021007116242_2021007116242_0001 Co. OPTL_SR_COPTL_2 2021007116242_202100716242_0001 Co. OPTL_SR_COPTL_2 2021007116242_202100716242_0001 Co. OPTL_SR_COPTL_2 2021007176242_0001076242_0001 Co. OPTL_SR_COPTL_2 2021007176242_0001076242_0001 Co. OPTL_SR_COPTL_2 2021007176242_0001076242_0001 Co. OPTL_SR_COPTL_2 2021007762400_0001076242_0001 Co. OPTL_SR_COPTL_2 2021007762400_0001076242_0001 Co. OPTL_SR_COPTL_2 2021007762400_0001076242_0001 Co. OPTL_SR_COPTL_2 2021007762400_0001076242_0001 Co. OPTL_SR_COPTL_2 20221007760901_0001076242_0001 Co. OPTL_SR_COPTL_2 20221007760901_0001076242_00010760901_0001076242_00010760901_0001	CS_OFFL_SIR_GOPN_2_20221028T160315_20221028T160435_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_COPN_2_R221009T164042_20221029T164022_0091 CS_OFFL_SR_COPN_2_R221009T164042_20221029T164022_0091 CS_OFFL_SR_COPN_2_R221009T164042_20221029T176504_0091 CS_OFFL_SR_COPN_2_R221009T176504_20221029T176504_0091 CS_OFFL_SR_COPN_2_R221009T176504_20221009T176504_0091 CS_OFFL_SR_	CS_OFFL_SIR_GOPN_2_20221028T162834_20221028T162940_C001		
SS_OFFL_SIR_DOPN_2_2021003T19448_2021103T19284_G001 OS_OFFL_SIR_DOPN_2_2021003T19349_2021103T19349_C001 OS_OFFL_SIR_DOPN_2_2021003T19349_D00103T19349_C001 OS_OFFL_SIR_DOPN_2_2021003T19349_D00103T19349_C001 OS_OFFL_SIR_DOPN_2_2021003T19349_D00103T19349_C001 OS_OFFL_SIR_DOPN_2_2021003T19349_D00103T19349_C001 OS_OFFL_SIR_DOPN_2_2021003T19349_D00103T19349_C001 OS_OFFL_SIR_DOPN_2_2021003T19349_D00103T19349_C001 OS_OFFL_SIR_DOPN_2_2021003T19349_D00103T19349_C001 OS_OFFL_SIR_DOPN_2_20221003T293000_2021103T29309_C001 OS_OFFL_SIR_DOPN_2_20221003T293000_2021103T29309_C001 OS_OFFL_SIR_DOPN_2_20221003T293000_20221003T29309_C001 OS_OFFL_SIR_DOPN_2_20221003T293000_20221	CS_OFFL_SIR_GOPN_2_20221028T163920_20221028T164043_C001		
DOCK Basiscatter Caulty Flags CS_OFFL.SIR_GOPN_2_920210381178319_pt021038179394_0001 CS_OFFL.SIR_GOPN_2_920210381178192_pt021038179394_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119394_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119494_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119494_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119494_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119494_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119494_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119494_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt021038119494_0001 CS_OFFL.SIR_GOPN_2_920210381190392_pt0210381203812_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt0210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203892_pt02210381203802_0001 CS_OFFL.SIR_GOPN_2_920210381203802_pt02210381203802_0001 CS_OFFL	CS_OFFL_SIR_GOPN_2_20221028T164142_20221028T164222_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Coulty PLIM. See OFFL SIRI COPN 2 20221028T173192 20221028T17309 COOI Affinited Range and Backscatter Coulty PLIM. The COOG Range and Backscatter Coulty Plags have been set for one or more records CS OFFL SIRI COPN 2 20221028T174147 20221028T174304 COOI CS OFFL SIRI COPN 2 20221028T18247 20221028T18249T COOI CS OFFL SIRI COPN 2 20221028T18247 20221028T18249S COOI CS OFFL SIRI COPN 2 20221028T18249S 20221028T18249S COOI CS OFFL SIRI COPN 2 20221028T18249S 20221028T18249S COOI CS OFFL SIRI COPN 2 20221028T1823708 20221028T18239S COOI CS OFFL SIRI COPN 2 20221028T1823708 20221028T18239S COOI CS OFFL SIRI COPN 2 20221028T1823708 20221028T18239S COOI CS OFFL SIRI COPN 2 20221028T1823370 20221028T18239S COOI CS OFFL SIRI COPN 2 20221028T1823370 20221028T18239S COOI CS OFFL SIRI COPN 2 20221028T1823370 20221028T18239S COOI CS OFFL SIRI COPN 2 20221028T182370 20221028T18239S COOI CS OFFL SIRI COPN 2 20221028T18237	CS_OFFL_SIR_GOPN_2_20221028T165245_20221028T165358_C001		, ,
OCOS Backcaster Causily CS_OFFL_SIR_GOPN_2_20221028T180245_20221028T180448_0001 OCOS Affender Range Guality PLRM, COCOS Backcaster Causily PLRM, COCOS Ba	CS_OFFL_SIR_GOPN_2_20221028T173319_20221028T173634_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Bancscattler Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T182421_20221028T182447_OOI Affinited Range and Backscattler Quality Plags have been set for one or more records. CS_OFFL_SIR_GOPN_2_20221028T191037_20221028T191454_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T191037_20221028T200243_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T200008_20221028T200243_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T200008_20221028T200243_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T200008_20221028T200243_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T200007_20221028T200430_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T219708_20221028T214155_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T21908_20221028T214155_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T21909_20221028T21405_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T229007_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T229007_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T22907_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T22907_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T22907_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T2097_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T001926_COO21028T220007_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T001926_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T001926_COOI OCOG Affinited Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T001926_COOI OCOG Affinited Range Quality PLRM. CS_OF	CS_OFFL_SIR_GOPN_2_20221028T174147_20221028T174304_C001		
and Backesatter Quality PLEM. COOR Agreement Plants SSNA. SWH and Backesatter Quality Plants have been set for one or more records. S. OFFL SIR GOPN 2 202210287191037 20221028720049 COOI	CS_OFFL_SIR_GOPN_2_20221028T180255_20221028T180436_C001		
OCOG Backscatter Gually PLRM. CS_OFFL_SIR_GOPN_2_20221028T200008_20221028T200430_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T200307_20221028T200430_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T213708_20221028T214125_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T213708_20221028T214125_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T214902_20221028T214125_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T214902_20221028T214935_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T214902_20221028T214935_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T223630_20221028T223903_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T223630_20221028T223903_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T223630_20221028T223903_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T23238_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T232338_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T23238_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T031710_20221028T23238_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T001246_20221028T001888_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 OCOG Altimeter Range Quality PLRM. CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 OCOG Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPR_2_20221	CS_OFFL_SIR_GOPN_2_20221028T182421_20221028T182447_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Altimeter Range Quality PLRM. OCG Backscatter Quality PLRM. OC	CS_OFFL_SIR_GOPN_2_20221028T191037_20221028T191454_C001		
OCGG Backscatter Quality PLRM, OCGG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM, OCGG Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PlRG, Backscatter Quality PLRM, OCGG Altimeter Range and Backscatter Quality PLRM, OCGG Altim	CS_OFFL_SIR_GOPN_2_20221028T200008_20221028T200243_C001	, ,	
and Backscatter Quality PIRM, COCO Altimeter Range and Backscatter Quality Pigs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backscatter Quality Piggs and the COCO Altimeter Range and Backs	CS_OFFL_SIR_GOPN_2_20221028T200307_20221028T200430_C001		
OCOG Backscatter Quality PLRM. CS_OFFL_SIR_GOPN_2_20221028T223630_20221028T223903_C001 CS_OFFL_SIR_GOPN_2_20221028T223656_20221028T223903_C001 CS_OFFL_SIR_GOPN_2_20221028T225566_20221028T223037_C001 CS_OFFL_SIR_GOPN_2_20221028T225566_20221028T230037_C001 CS_OFFL_SIR_GOPN_2_20221028T225566_20221028T230037_C001 CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T232238_C001 CS_OFFL_SIR_GOPN_2_20221028T031246_20221028T031808_C001 CS_OFFL_SIR_GOPN_2_20221028T001246_20221028T001808_C001 CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T003326_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T00040_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T00040_C001 CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T00040_C001 CS_OFFL_SIR_GOPR_2_20221028T015109_2022102	CS_OFFL_SIR_GOPN_2_20221028T213708_20221028T214125_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20221028T223630_20221028T223903_C001 And Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPN_2_20221028T225556_20221028T230037_C001 CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T232238_C001 CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T232238_C001 CS_OFFL_SIR_GOPN_2_20221028T001246_20221028T001808_C001 CS_OFFL_SIR_GOPR_2_20221028T001246_20221028T001808_C001 CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 CS_OFFL_SIR_GOPR_2_20221028T001326_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T0005731_C001 CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T028T025114_C001 CS_OFFL_SIR_GOPR_2_20221028T028T028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T028T028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T028T028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T028T028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T028T028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T028T028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T028T028T020040_C001 CS_OFFL	CS_OFFL_SIR_GOPN_2_20221028T214902_20221028T214935_C001		
OCOG Backscatter Quality CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T23238_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality CS_OFFL_SIR_GOPR_2_20221028T001246_20221028T001808_C001 CS_OFFL_SIR_GOPR_2_20221028T001246_20221028T001808_C001 CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCO	CS_OFFL_SIR_GOPN_2_20221028T223630_20221028T223903_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20221028T001246_20221028T001808_C001 CS_OFFL_SIR_GOPR_2_20221028T001246_20221028T001808_C001 CS_OFFL_SIR_GOPR_2_20221028T001246_20221028T001925_C001 CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001 CS_OFFL_SIR_GOPR_2_20221028T003326_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T003326_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T003326_20221028T003428_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T0005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T0005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T0005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T0005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T0000000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20221028T225556_20221028T230037_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG	CS_OFFL_SIR_GOPN_2_20221028T231710_20221028T232238_C001		
OCOG Backscatter Quality CS_OFFL_SIR_GOPR_2_20221028T003326_20221028T003428_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG 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_GOPR_2_20221028T015109_20221028T020040_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPR_2_20221028T001246_20221028T001808_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001 CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001 CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T020040_C001 CS_OFFL_SIR_GOPR_2_20221028T024842_20221028T025114_C001 CS_OFFL_SIR_GOPR_2_20221028T024842_20221028T025114_C001 OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and Ba	CS_OFFL_SIR_GOPR_2_20221028T001822_20221028T001925_C001		
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T02040_C001 CS_OFFL_SIR_GOPR_2_20221028T024842_20221028T025114_C001 and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20221028T003326_20221028T003428_C001		
OCOG Backscatter Quality Ocoan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20221028T005523_20221028T005731_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20221028T024842_20221028T025114_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20221028T015109_20221028T020040_C001		
l	CS_OFFL_SIR_GOPR_2_20221028T024842_20221028T025114_C001	and Backscatter Quality PLRM, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

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OCG Riskscatter Ocality CS_OFFL_SIR_GOPR_2_20221028T04141_20221028T041703_C001 CS_OFFL_SIR_GOPR_2_20221028T042736_20221028T041703_C001 CS_OFFL_SIR_GOPR_2_20221028T042736_20221028T04190_C001 CS_OFFL_SIR_GOPR_2_20221028T042736_20221028T04190_C001 CS_OFFL_SIR_GOPR_2_20221028T050728_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051490_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051946_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051940_C001 CS_OFFL_SIR_GOPR_2_20221028T051893_20221028T051940_C001 CS_OFFL_SIR_GOPR_2_20221028T05198_20221028T051940_C001 CS_OFFL_SIR_GOPR_2_20221028T05198_20221028T051940_C001 CS_OFFL_SIR_GOPR_2_20221028T05198_20221028T05199_C001 CS_OFFL_SIR_GOPR_2_20221028T056190_20221028T05199_C001 CS_OFFL_SIR_GOPR_2_20221028T056190_20221028T05199_C001 CS_OFFL_SIR_GOPR_2_20221028T056300_20221028T05199_C001 CS_OFFL_SIR_GOPR_2_20221028T056300_20221028T05199_C001 CS_OFFL_SIR_GOPR_2_20221028T056300_20221028T056300_C001 CS_OFFL_SIR_GOPR_2_20221028T0732002_20221028T0732002_C0221
and Backscater Caulity PLRM. COG Allmeter Range and Backscater Caulity Flags have been set for more records. CS_OFFL_SIR_GOPR_2_20221028T062708_20221028T06149_C001 CS_OFFL_SIR_GOPR_2_20221028T065078_20221028T06149_C001 CS_OFFL_SIR_GOPR_2_20221028T065078_20221028T06149_C001 CS_OFFL_SIR_GOPR_2_20221028T06183_20221028T06149_C001 CS_OFFL_SIR_GOPR_2_20221028T06183_20221028T06149_C001 CS_OFFL_SIR_GOPR_2_20221028T06183_20221028T06190_C001 CS_OFFL_SIR_GOPR_2_20221028T061613_20221028T06190_C001 CS_OFFL_SIR_GOPR_2_20221028T061613_20221028T06190_C001 CS_OFFL_SIR_GOPR_2_20221028T061613_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T065016_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T065016_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T065016_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_2021028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_2021028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_2021028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_2021028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_2021028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T06500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T06500_20221028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T076500_2021028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T076500_2021028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T076500_2021028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T076500_2021028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T076500_2021028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T076500_20221028T076500_C001 CS_OFFL_SIR_GOPR_2_20221028T076500_20221028T07650
and Backscatter Quality PLRM. CS_OFFL_SIR_GOPR_2_20221028T050728_20221028T051409_C001 All Rimeter Range and Backscatter Quality PLRM. CS_OFFL_SIR_GOPR_2_20221028T050728_20221028T051945_C001 CS_OFFL_SIR_GOPR_2_20221028T051853_20221028T051945_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T051945_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T05230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T05500_C001 CS_OFFL_SIR_GOPR_2_20221028T055019_20221028T05500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T05500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T05500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T05500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T05500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T07500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T07500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T07500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T07500_C001 CS_OFFL_SIR_GOPR_2_20221028T05500_20221028T07500_C001 CS_OFFL_SIR_GOPR_2_20221028T07500_20221028T07500_C001 CS_OFFL_SIR_GOPR_2
and flackscatter Quality PLRM, OCOC Altimeter Range and Backscatter Quality PLRM of one or more records CS_OFFL_SIR_GOPR_2_20221028T051953_20221028T051945_C001 CS_OFFL_SIR_GOPR_2_20221028T051953_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T052230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T05230_C001 CS_OFFL_SIR_GOPR_2_20221028T056133_20221028T056413_C001 CS_OFFL_SIR_GOPR_2_20221028T06616_20221028T061030_C001 CS_OFFL_SIR_GOPR_2_20221028T06618_20221028T061030_C001 CS_OFFL_SIR_GOPR_2_20221028T06618_20221028T065094_C001 CS_OFFL_SIR_GOPR_2_20221028T066509_20221028T065094_C001 CS_OFFL_SIR_GOPR_2_20221028T065099_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T065099_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T065090_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T065090_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T065090_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T0765820_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T0765820_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T07650500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T07650500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T07650500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T07650500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T07650500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T07650500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760530_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760500_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760500_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760500_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760500_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760500_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760500_C001 CS_OFFL_SIR_GOPR_2_20221028T0760500_20221028T0760500_C001 CS_OFFL_SIR_GOPR_2_
CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T05230_C001 CS_OFFL_SIR_GOPR_2_20221028T052108_20221028T05230_C001 CS_OFFL_SIR_GOPR_2_20221028T054133_20221028T054413_C001 CS_OFFL_SIR_GOPR_2_20221028T06616_20221028T061030_C001 All meter Range And Backscatter Quality PLRM, COCO All meter Range and Backscatter Quality PLRM of Coco All meter Range and B
OCOG Backscatter Quality CS_OFFL_SIR_GOPR_2_20221028T064133_20221028T064413_C001 CS_OFFL_SIR_GOPR_2_20221028T060616_20221028T061030_C001 CS_OFFL_SIR_GOPR_2_20221028T060616_20221028T061030_C001 CS_OFFL_SIR_GOPR_2_20221028T064611_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T064611_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T075339_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T075339_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T075339_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T074525_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T08357_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T0857_20221028T
CS_OFFL_SIR_GOPR_2_20221028T06016_20221028T061030_C001 CS_OFFL_SIR_GOPR_2_20221028T06616_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T064611_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T064611_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T065504_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T065309_C001 CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T070530_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T079555_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T079555_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T079555_C001 CS_OFFL_SIR_GOPR_2_20221028T09955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T09055_20221028T091655_C001 CS_OFFL_SIR_GOP
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter R
CS_OFFL_SIR_GOPR_2_20221028T064611_20221028T065309_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T065504_C001 CS_OFFL_SIR_GOPR_2_20221028T065820_20221028T07503_C001 CS_OFFL_SIR_GOPR_2_20221028T065820_20221028T07503_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T074729_20221028T074942_C001 CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T082715_C001 CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T00537_20221028T01041_C001 CS_OFFL_SIR_GOPR_2_2
CS_OFFL_SIR_GOPR_2_20221028T065309_20221028T07503_C001 Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM. OCOG Altimeter Range and Bac
CS_OFFL_SIR_GOPR_2_20221028T073202_20221028T073639_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have set for one or more records Th
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20221028T082558_20221028T082715_C001 CS_OFFL_SIR_GOPR_2_20221028T080558_20221028T082715_C001 CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T104616_20221028T105017_C001 CS_OFFL_SIR_GOPR_2_20221028
CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T105017_C001
CS_OFFL_SIR_GOPR_2_20221028T090955_20221028T091655_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records The OCOG Range and Backscatter Quality Flags have set for one or more records The OCOG Range and Backscatter Quality Flags have set for one or more records The OCOG Range and Backscatter Quality Flags have set for one or more records The OCOG Range and Backscatter Quality Flags have set for one or more records The OCOG Range and Backscatter Quality Flags have set for one or more records The OCOG Range and Backscatter Quality Flags have set for one or more records
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20221028T100537_20221028T101041_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20221028T112917_20221028T113108_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20221028T114527_20221028T114655_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20221028T114715_20221028T115137_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have and the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the O
CS_OFFL_SIR_GOPR_2_20221028T132301_20221028T132635_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20221028T132653_20221028T133101_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been dependent on the OCOG Altimeter Range and Backscatter Quality Flags have been depe
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_GOPR_2_20221028T145557_20221028T145631_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records
CS_OFFL_SIR_GOPR_2_20221028T150131_20221028T150237_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for more records

CS_OFFL_SIR_GOPR_2_20221028T150507_20221028T151140_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_20221028T154909_20221028T155338_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_20221028T160435_20221028T160646_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_20221028T163012_20221028T163256_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_20221028T164043_20221028T164132_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_20221028T164457_20221028T165245_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_20221028T172906_20221028T173319_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_20221028T174304_20221028T174720_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_20221028T182447_20221028T183325_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_20221028T192207_20221028T192621_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_20221028T200430_20221028T201200_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_20221028T205959_20221028T210641_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_20221028T211909_20221028T212013_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG 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.

> 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: 63

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: 143

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

Currently, there are some common auxiliary correction errors raised in the Level 2 products 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:

30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20221027T232524_20221028T001503_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
CS_OFFL_SIR_GOP_2_20221028T001503_20221028T010439_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_2_20221028T010439_20221028T015418_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_2_20221028T015418_20221028T024354_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_2_20221028T024354_20221028T033333_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_2_20221028T033333_20221028T042309_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_2_20221028T042309_20221028T051248_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_2_20221028T051248_20221028T060223_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_2_20221028T060223_20221028T065202_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_2_20221028T065202_20221028T074138_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_2_20221028T074138_20221028T083117_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_2_20221028T083117_20221028T092053_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_2_20221028T092053_20221028T101032_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_2_20221028T101032_20221028T110007_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_2_20221028T110007_20221028T114946_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_2_20221028T114946_20221028T123922_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_2_20221028T123922_20221028T132901_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_2_20221028T132901_20221028T141837_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_2_20221028T141837_20221028T150816_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_2_20221028T150816_20221028T155752_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_2_20221028T155752_20221028T164731_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_2_20221028T164731_20221028T173706_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_2_20221028T173706_20221028T182645_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_2_20221028T182645_20221028T191621_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_2_20221028T191621_20221028T200600_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_2_20221028T200600_20221028T205536_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_2_20221028T205536_20221028T214515_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_2_20221028T214515_20221028T223450_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_2_20221028T223450_20221028T232429_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 height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description		
CS_OFFL_SIR_GOP_2_20221028T200600_20221028T205536_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		
CS_OFFL_SIR_GOP_220221028T223450_20221028T232429_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (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: 3

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: 3

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.

lumber of products with errors: 2

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.

2223

Number of products with errors: 3

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	186	186	4	182	0
SIR_GOPR1B	110	110	0	110	0
SIR_GOPN1B	105	105	1	104	0
SIR_GOPM_2	188	188	128	60	0
SIR_GOPR_2	113	113	37	76	0
SIR_GOPN_2	105	105	44	61	0
SIR GOP P2P	29	29	0	29	0

7.1 QCC Errors

Number of QCC reports with errors: 0

Total number of occurrences of each error

Product Type		_	_			_		_	_	_	_
Product Type	-	-	-	-	-	-	-	-	-	-	-
0											

Test Description Key:	est Description Key:								
Abbreviation	Test name	Details							
0	0	#N/A							
0	0	#N/A							
0	0	#N/A							
0	0	#N/A							

7.2 QCC Warnings

Number of QCC reports with warnings

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	182	0	0	0	0	0	0		
SIR_GOPM_2	0	45	46	0	41	0	37		
SIR_GOPN1B	102	0	0	0	0	0	0		
SIR_GOPN_2	0	10	32	6	25	29	22		
SIR_GOPR1B	109	0	0	0	0	0	0		
SIR GOPR 2	0	39	45	0	30	24	14		

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	34	0	0	0	0	27

SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	1	0	0	30	0	35	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	3	0	54	0	56	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	4	31	0	4	39
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	28	15	46	48	34	28
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	51	0	1	65	35	13	37

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR_GOPM1B	0	0	0	0	0		
SIR_GOPM_2	0	2	0	0	0		
SIR_GOPN1B	0	0	0	46	0		
SIR_GOPN_2	27	14	1	0	0		
SIR_GOPR1B	0	0	0	110	7		
SIR GOPR 2	50	0	1	0	0		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	14	29	29	6	29	18	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	3	17	29	26	17	29	19

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•
SIR GOP 2	25	29	18	14	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	Missing Value Int Ocean Excluding Polar Net CDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD 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
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

 $\label{lem:number of products with missing QCC reports:} \\$

L1B and L2 Product name

P2P Product name
CS_OFFL_SIR_GOP_2__20221028T232429_20221029T001405_C002