

1. Overview

Report Production:	16-Jan-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

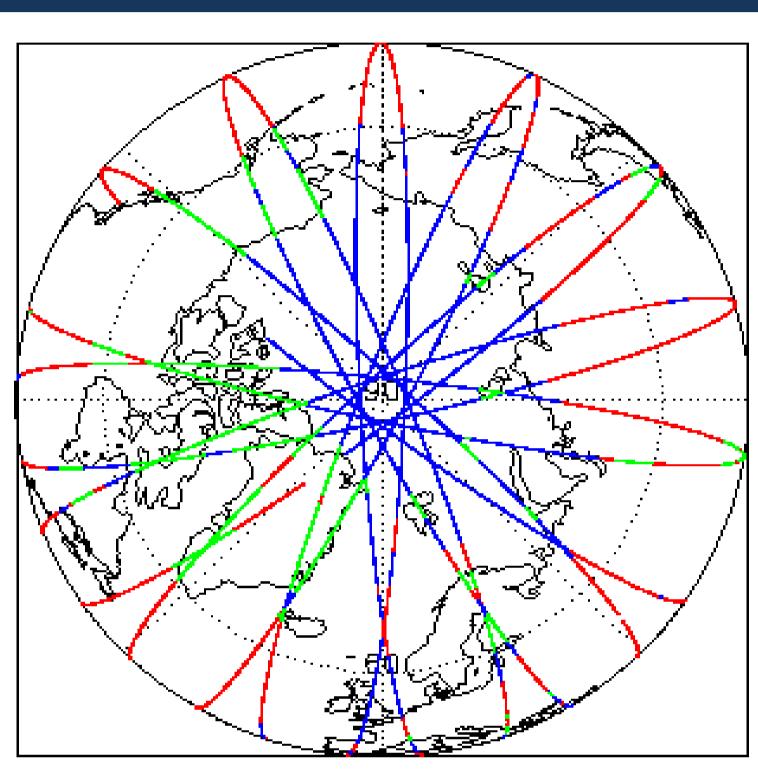
We would love to hear from you!
Please let us know your feedback about these daily
quality reports: What do you like/ dislike? What quality
information do you need? Send your feedback to

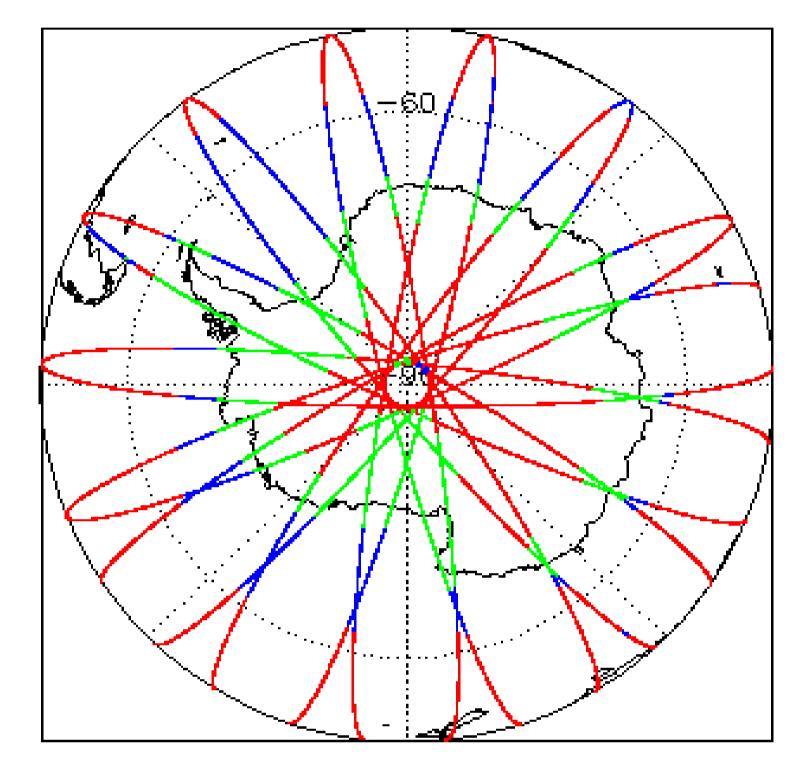
cs2_qc_team@telespazio.com

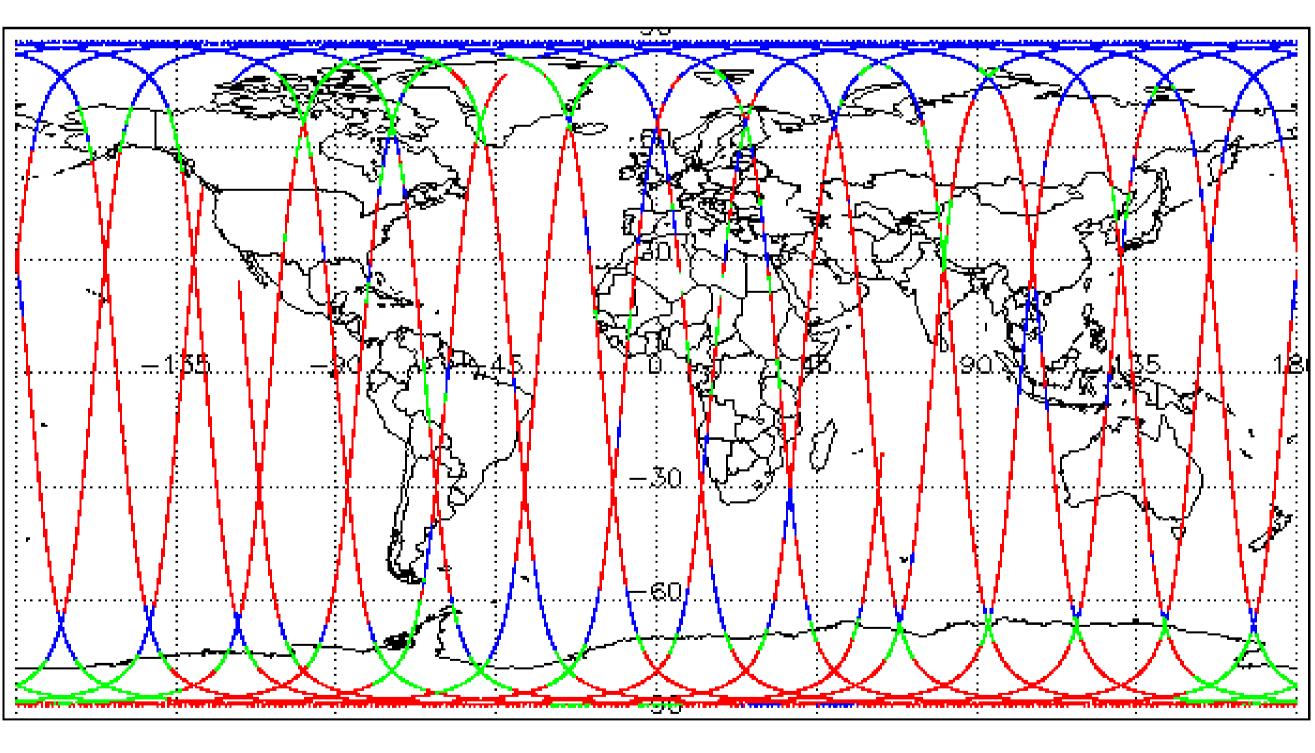
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

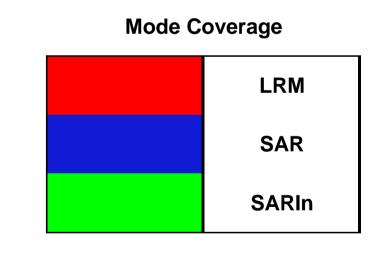
Miss	ion / Instru	ment News
14-[Dec-2022	None
15-[Dec-2022	None
16-1	Dec-2022	Nothing planned

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.

0

0

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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:

2	1

Product	Test Failed	Description
CS_OFFL_SIR_GOPN1B_20221215T011049_20221215T011125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T051722_20221215T052232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T060824_20221215T061210_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T070135_20221215T070257_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T092640_20221215T092853_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T110601_20221215T111046_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T141920_20221215T141959_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T164543_20221215T165002_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T173512_20221215T173751_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T191737_20221215T191840_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T205209_20221215T205526_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T205529_20221215T205740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20221215T215045_20221215T215420_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20221215T042106_20221215T042811_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: 0

5.4 L2 Auxiliary Correction Error Check

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

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

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

57

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221215T105716_20221215T105752_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_20221215T005842_20221215T010306_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_20221215T015207_20221215T015332_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_20221215T020129_20221215T020242_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_20221215T024043_20221215T024232_C001	IIVIean Dynamic Tobography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20221215T033139_20221215T033305_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_20221215T033820_20221215T034122_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_20221215T051139_20221215T051445_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_20221215T051722_20221215T052232_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_20221215T060824_20221215T061210_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_20221215T065200_20221215T065434_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_20221215T075053_20221215T075327_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_20221215T082659_20221215T083309_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_20221215T092640_20221215T092853_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_20221215T100922_20221215T101102_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_20221215T110601_20221215T111046_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_20221215T115740_20221215T120018_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_20221215T132843_20221215T133233_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_20221215T142941_20221215T143107_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_20221215T150825_20221215T151139_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_20221215T151652_20221215T151809_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_20221215T155924_20221215T155946_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_20221215T165558_20221215T165713_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_20221215T173512_20221215T173751_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_20221215T173808_20221215T173932_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_20221215T191208_20221215T191619_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_20221215T191737_20221215T191840_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_20221215T201136_20221215T201407_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_20221215T205209_20221215T205526_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_20221215T205529_20221215T205740_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_20221215T215045_20221215T215420_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_20221215T223212_20221215T223603_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_20221215T233156_20221215T233339_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_20221215T010306_20221215T011049_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_20221215T024233_20221215T024911_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_20221215T024911_20221215T025204_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_20221215T042106_20221215T042811_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_20221215T042811_20221215T043004_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_20221215T060232_20221215T060707_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_20221215T060707_20221215T060824_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_20221215T074035_20221215T074544_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_20221215T074544_20221215T074709_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_20221215T092220_20221215T092640_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_20221215T105752_20221215T105810_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_20221215T105810_20221215T110139_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_20221215T110147_20221215T110601_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_20221215T123631_20221215T124639_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_20221215T140855_20221215T141005_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_20221215T142000_20221215T142748_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_20221215T155946_20221215T161012_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_20221215T173932_20221215T174645_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_20221215T191841_20221215T192404_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_20221215T201407_20221215T201631_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_20221215T204733_20221215T204815_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20221215T205741_20221215T210435_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (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.

0

Number of products with errors: 85

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20221214T234631_20221215T001112_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_20221215T001330_20221215T001851_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_20221215T002620_20221215T005842_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_20221215T012231_20221215T014152_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_20221215T014522_20221215T015005_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

### Display Company Co			
## design of processor coasts (1900) ## design o	CS_OFFL_SIR_GOPM_2_20221215T020605_20221215T023836_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Sec. OF T. LORGO COM 2. 20221957539493 202219573-1930 COM 2. DOZ A PRINTED COM 2. 20221957539493 202219573-1930 COM 2. DOZ A PRINTED	CS_OFFL_SIR_GOPM_2_20221215T031950_20221215T032823_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
### COPM_SRIP_COPM_2_222191100011EXERY_FEG_150011	CS_OFFL_SIR_GOPM_2_20221215T033305_20221215T033819_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
28 CPFL_SIR_GOPPZ_20221015T0-202_20221015T0-304_0.0027	CS_OFFL_SIR_GOPM_2_20221215T034450_20221215T040631_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
28, OFFL_SIR_GOPY_2_0021215T04026_2022125T04020_00000 Delta Sir_GOPY_2_0021215T04026_2022125T04020_00000 Delta Sir_GOPY_2_00021215T04026_2022125T04020_000000 Delta Sir_GOPY_2_00021215T04026_2022125T04020_000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20221215T040916_20221215T041853_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SRI_OCPM_2_20221215T04234_20221215T04355_0001 CS_OFFL_SRI_OCPM_2_20221215T04302_20221215T044720_0001 CS_OFFL_SRI_OCPM_2_20221215T04452_20221215T044720_0001 CS_OFFL_SRI_OCPM_2_20221215T04452_20221215T044720_0001 CS_OFFL_SRI_OCPM_2_20221215T04573_20221215T044720_0001 CS_OFFL_SRI_OCPM_2_20221215T045713_20221215T044720_0001 CS_OFFL_SRI_OCPM_2_20221215T045713_20221215T044720_0001 CS_OFFL_SRI_OCPM_2_20221215T045713_20221215T044720_0001 CS_OFFL_SRI_OCPM_2_20221215T045713_20221215T05971_0001 CS_OFFL_SRI_OCPM_2_20221215T054714_20221215T05971_0001 CS_OFFL_SRI_OCPM_2_20221215T054714_20221215T05971_0001 CS_OFFL_SRI_OCPM_2_20221215T054714_20221215T05573_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T05573_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T05573_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T05573_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T05573_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T05573_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T05573_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T054740_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T054740_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T054740_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T054740_0001 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T076777_00101 CS_OFFL_SRI_OCPM_2_20221215T054745_20221215T076777_00101 CS_OFFL_SRI_OCPM_2_20221215T076735_2020101 CS_OFFL_SRI_OCPM_2_20221215T076550_2020101 CS_OFFL_SRI_OCPM_2_20221215T0765	CS_OFFL_SIR_GOPM_2_20221215T043005_20221215T043109_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Description of the control of the co	CS_OFFL_SIR_GOPM_2_20221215T043204_20221215T043356_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and the OCCG Allmeter Range and Backscatter Quality Rags New 2 on Allmeter Range and	CS_OFFL_SIR_GOPM_2_20221215T044322_20221215T044720_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
of Bedescater Couliny, COCO and the CoCOS Airmore Range and Bedescater Couliny Rigos have been for one or more records. CS. OFFL SIR GOPM 2 2022/2157085418 2022/12157055411 (2001) CS. OFFL SIR GOPM 2 2022/215708500 2022/2157055731 (2001) CS. OFFL SIR GOPM 2 2022/215708500 2022/2157055731 (2001) CS. OFFL SIR GOPM 2 2022/215708500 2022/2157056731 (2001) CS. OFFL SIR GOPM 2 2022/215708500 2022/2157056731 (2001) CS. OFFL SIR GOPM 2 2022/2157087310 2022/215706457, 2001 CS. OFFL SIR GOPM 2 2022/2157087310 2022/215706457, 2001 CS. OFFL SIR GOPM 2 2022/2157087310 2022/215708830 (2001) CS. OFFL SIR GOPM 2 2022/215708731 (2021) CS. OFFL SIR GOPM 2 2022/2157070329 2022/215707077 (2001) CS. OFFL SIR GOPM 2 2022/2157070329 2022/2157070707 (2001) CS. OFFL SIR GOPM 2 2022/2157070339 2022/2157070707 (2001) CS. OFFL SIR GOPM 2 2022/215707033 2022/2157070309 (2001) CS. OFFL SIR GOPM 2 2022/215707033 2022/2157070707 (2001) CS. OFFL SIR GOPM 2 2022/215707033 2022/2157070707 (2001) CS. OFFL SIR GOPM 2 2022/215707033 (2022/2157070707 (2001) CS. OFFL SIR GOPM 2 2022/215707033	CS_OFFL_SIR_GOPM_2_20221215T044920_20221215T045525_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221215T0504520221215T065731_0001 Alternate Range_SSHA_SVM- and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been started from the COCG Alternate Range and Backscatter Quality Flags have been store and the COCG Alternate Range and Backscatter Quality Flags have been store and the COCG Alternate Range and Backscatter Qu	CS_OFFL_SIR_GOPM_2_20221215T045713_20221215T050742_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20221215T005503_20221215T005457_C001 CS_OFFL_SIR_GOPM_2_20221215T00510_20221215T006457_C001 CS_OFFL_SIR_GOPM_2_20221215T00610_20221215T006457_C001 CS_OFFL_SIR_GOPM_2_20221215T00610_20221215T006457_C001 CS_OFFL_SIR_GOPM_2_20221215T006456_20221215T0066690_C001 CS_OFFL_SIR_GOPM_2_20221215T006466_20221215T0066690_C001 CS_OFFL_SIR_GOPM_2_20221215T070329_20221215T070707_C001 CS_OFFL_SIR_GOPM_2_20221215T070339_20221215T070707_C001 CS_OFFL_SIR_GOPM_2_20221215T070339_20221215T0703298_C001 CS_OFFL_SIR_GOPM_2_20221215T070331_20221215T072038_C001 CS_OFFL_SIR_GOPM_2_20221215T070331_20221215T073152_C001 CS_OFFL_SIR_GOPM_2_20221215T070331_20221215T073152_C001 CS_OFFL_SIR_GOPM_2_20221215T075377_20221215T075355_C001 CS_OFFL_SIR_GOPM_2_20221215T075377_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T076331_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T0763310_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T0763310_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068300_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068300_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068300_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068300_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068300_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068300_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068900_20221215T066995_C001 CS_OFFL_SIR_GOPM_2_20221215T068900_20221215T06699	CS_OFFL_SIR_GOPM_2_20221215T052418_20221215T055411_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFL SIR GOPM 2 20221215T065130 20221215T070707 CO01 OCGA Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been a for one or more records CS OFFL SIR GOPM 2 20221215T070329 20221215T070707 CO01 OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records CS OFFL SIR GOPM 2 20221215T070329 20221215T070707 CO01 OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records CS OFFL SIR GOPM 2 20221215T070329 20221215T070707 CO01 OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range Quality, OCGA Altimeter Range and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range Quality, OCGA Altimeter Range and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range Quality, OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a for one or more records OCGA Altimeter Range and Backscatter Quality Flags have been a for	CS_OFFL_SIR_GOPM_2_20221215T055503_20221215T055731_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFL SIR GOPM 2 20221215T07032 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T07032 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T07032 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T07033 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T07033 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T070703 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T070703 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T070703 20221215T070707 C001 CS OFFL SIR GOPM 2 20221215T080936 C001 CS OFFL SIR GOPM 2 20221215T080936 C001 CS OFFL SIR GOPM 2 20221215T080936 C001 CS OFFL SIR GOPM 2 20221215T080937 C001 CS OFFL SIR GOPM 2 20221215T080938 C001 CS OFFL SIR GOPM 2 20221215T080939 C001 CS OFFL SIR GOPM 2 20221215T08090 C001 CS OFFL SIR GOPM 2 20221215T0800 C001 CS OFFL SIR GOPM 3 20221215T0800 C001 CS OF	CS_OFFL_SIR_GOPM_2_20221215T061310_20221215T064457_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality. OCOG Altimeter Range and Backscatter Quality Flags have bee Altimeter Range and Backscatter Quality. OCOG Backscatter Quality. OCOG Altimeter Range and Backscatter Quality. Flags have been story one or more records CS_OFFL_SIR_GOPM_2_20221215T084932_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T09006_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T09006_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T09006_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_2022121	CS_OFFL_SIR_GOPM_2_20221215T065435_20221215T065630_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have bee set for one or more records Ocaan Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have bee set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more rec	CS_OFFL_SIR_GOPM_2_20221215T070329_20221215T070707_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been store one or more records CS_OFFL_SIR_GOPM_2_20221215T083310_20221215T080935_C001 CS_OFFL_SIR_GOPM_2_20221215T083310_20221215T080935_C001 CS_OFFL_SIR_GOPM_2_20221215T083310_20221215T083550_C001 CS_OFFL_SIR_GOPM_2_20221215T083310_20221215T083550_C001 CS_OFFL_SIR_GOPM_2_20221215T083608_20221215T084036_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T084300_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T084300_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T084300_20221215T080144_C001 CS_OFFL_SIR_GOPM_2_20221215T084300_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T084300_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T084006_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T109806_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T109806_C001 CS_OFFL_S	CS_OFFL_SIR_GOPM_2_20221215T070733_20221215T072028_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
and the OCOG Altimeter Range and Backscatter Quality Flags have been stored for one or more records CS_OFFL_SIR_GOPM_2_20221215T083310_20221215T083550_C001 CS_OFFL_SIR_GOPM_2_20221215T083310_20221215T084036_C001 CS_OFFL_SIR_GOPM_2_20221215T083608_20221215T084036_C001 CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T080144_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T0914425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T0914425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T101102_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T0914425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T101102_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T0914425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T0914455_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T0914455_20221215T	CS_OFFL_SIR_GOPM_2_20221215T072031_20221215T073152_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221215T083608_20221215T084036_C001 CS_OFFL_SIR_GOPM_2_20221215T083608_20221215T084036_C001 CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T095901_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001 CS_OFFL_SIR_GOPM_2_20221215T101102_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T10	CS_OFFL_SIR_GOPM_2_20221215T075327_20221215T080935_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T090144_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001 CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T101102_20221215T101946_C001 CS_OFFL_SIR_GOPM_2_20221215T10	CS_OFFL_SIR_GOPM_2_20221215T083310_20221215T083550_C001	•	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
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CS_OFFL_SIR_GOPM_2_20221215T085901_20221215T090144_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range Quality, OCOG Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records OCOG Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_GOPM_2_20221215T084302_20221215T085722_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
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Backscatter Quality Solution of the Ocean Altimeter Range, SSHA, SWH Backscatter Quality Solution of the Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag	CS_OFFL_SIR_GOPM_2_20221215T094425_20221215T100806_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_GOPM_2_20221215T101102_20221215T101946_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Altimeter Range and Backscatter Quality set for one or more records	CS_OFFL_SIR_GOPM_2_20221215T102210_20221215T104656_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_GOPM_2_20221215T111902_20221215T114635_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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28. OFFL_SIR_OCPAL_20221215T141726_00251215T145T2.000 29. All raise Raines, SSH, 50H 29. OFFL_SIR_OCPAL_20221215T145T07 2027115T15056 D07 2020 All raise Raines, SSH, 50H 2030 All raise Raines, S	CS_OFFL_SIR_GOPM_2_20221215T141725_20221215T141817_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags h set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and the OCOG Altimeter Range and Backscatter Quality Flags h and Backscatter Quality, OCOG	nave been
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ord Packscratter Cuality. COCO Altrinoter Range and Packscratter Cuality. Plags have been control or or or more accords. CS_OFFL_SIR_GOPM_2_2022*215T162255_2022*215T163757_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162555_2022*215T163757_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162555_2022*215T163757_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162560_2022*215T163757_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162500_2022*215T163758_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162500_2022*215T163758_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162500_2022*215T163758_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162500_2022*215T163758_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162500_2022*215T163758_COO1 CS_OFFL_SIR_GOPM_2_2022*215T162500_2022*215T172609_COO1 CS_OFFL_SIR_GOPM_2_2022*215T172609_2002*215T172609_COO1 CS_OFFL_SIR_GOPM_2_2022*215T172609_COO2*215T172609_COO1 CS_OFFL_SIR_GOPM_2_2022*215T172609_COO1 CS_OFFL_SIR_GOPM_2_2022*215T172609_COO2*215T172609_COO1 CS	CS_OFFL_SIR_GOPM_2_20221215T152123_20221215T152139_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags h	been set
and Backstrate Quality, COCD SeptSIR_GOPM_2_2022*2167195492_202212*5156857_CO11 All matter Range and Backstrate Quality, COCD All matter Range SSHA, SWH and Backstrate Quality Flags have been store on or more records. CS_OFFL_SIR_GOPM_2_2022*216719012_202212*57161946_CO11 All matter Range and Backstrate Quality COCD All matter Range sSHA, SWH and Backstrate Quality Flags have been store on or more records. CS_OFFL_SIR_GOPM_2_2022*216719039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216719039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717039_202212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*216717090_20212*5719090_CO11 CS_OFFL_SIR_GOPM_2_2022*21571090_CO11 CS	Altimeter Range and Backscatter Quality set for one or more records	
CS_OFFL_SIR_GOPM_2_20221215T165498_20221215T161946_C001 CS_OFFL_SIR_GOPM_2_20221215T161012_20221215T161946_C001 CS_OFFL_SIR_GOPM_2_20221215T161012_20221215T161946_C001 CS_OFFL_SIR_GOPM_2_20221215T162231_20221215T164409_C001 CS_OFFL_SIR_GOPM_2_20221215T162231_20221215T164409_C001 CS_OFFL_SIR_GOPM_2_20221215T170039_20221215T172009_C001 CS_OFFL_SIR_GOPM_2_20221215T170039_20221215T172039_C001 CS_OFFL_SIR_GOPM_2_20221215T172052_20221215T1730318_C001 CS_OFFL_SIR_GOPM_2_20221215T172052_20221215T1730318_C001 CS_OFFL_SIR_GOPM_2_20221215T172052_20221215T1730318_C001 CS_OFFL_SIR_GOPM_2_20221215T172052_20221215T1730318_C001 CS_OFFL_SIR_GOPM_2_20221215T1730318_C001 CS_OFFL_SIR_GOPM_2_20221215T1803039_02221215T1803040_C001 CS_OFFL_SI	CS_OFFL_SIR_GOPM_2_20221215T152255_20221215T153757_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags h	•
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and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records CS_OFFL_SIR_GOPM_2_20221215T180716_20221215T182321_C001 CS_OFFL_SIR_GOPM_2_20221215T182515_20221215T183040_C001 CS_OFFL_SIR_GOPM_2_20221215T182515_20221215T183040_C001 CS_OFFL_SIR_GOPM_2_20221215T182515_20221215T183040_C001 CS_OFFL_SIR_GOPM_2_20221215T183059_20221215T183321_C001 CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T183321_C001 CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T185412_C001 CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T194509_C001 CS_OFFL_SIR_GOPM_2_20221215T18546_20221215T194509_C001 CS_OFFL_SIR_GOPM_2_20221215T18546_20221215T194509_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 CS_OFFL_SIR	CS_OFFL_SIR_GOPM_2_20221215T175108_20221215T175513_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags h	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221215T182515_20221215T183040_C001 CS_OFFL_SIR_GOPM_2_20221215T183059_20221215T183021_C001 CS_OFFL_SIR_GOPM_2_20221215T183059_20221215T183021_C001 CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T185412_C001 CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T185412_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 Altimeter Range, SSHA, SWH and Backscatter Quality COOG Altimeter Range, SSHA, SWH and Backscatter Quality COOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T194509_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C0	CS_OFFL_SIR_GOPM_2_20221215T175617_20221215T180713_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags h	•
Backscatter Quality CS_OFFL_SIR_GOPM_2_20221215T183059_20221215T183321_C001 CS_OFFL_SIR_GOPM_2_20221215T183059_20221215T183321_C001 CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T185412_C001 CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T185412_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T185412_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 Backscatter Quality CCGA Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221215T191208_C001 CCGA Altimeter Range, SSHA, SWH 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_20221215T193546_20221215T194509_C001 CCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and th	CS_OFFL_SIR_GOPM_2_20221215T180716_20221215T182321_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags h	,
Backscatter Quality Cean Altimeter Range, SSHA, SWH 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_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 Backscatter Quality Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH 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_20221215T193546_20221215T194509_C001 CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	U.S. OFFI, SIR (40PM / 2022) 2151182515 2022 2151183040 C.001	been set
CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T185412_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags a	US OFFI SIR GOPINI / /1//1/151183059 /1//1/1511833/1 COOT	: been set
CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Document Range and Backscatter Quality Set for one or more records CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	CS_OFFL_SIR_GOPM_2_20221215T184145_20221215T185412_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags h	
CS_OFFL_SIR_GOPM_2_20221215T193546_20221215T194509_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records		, ,
Ocean Altimeter Pance SSUA SIAIU The Ocean Altimeter Pance SSUA SIAIU and Realizables Overlie Flage	CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags h	
CS_OFFL_SIR_GOPM_2_20221215T194712_20221215T200218_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality	CS_OFFL_SIR_GOPM_2_20221215T185509_20221215T191208_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags had been compared to the ocog Altimeter Range, SSHA, SWH and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range and Backscatter Quality Flags had been compared to the ocog Altimeter Range an	•

CS_OFFL_SIR_GOPM_2_20221215T200443_20221215T200938_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_20221215T200945_20221215T200952_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_20221215T201832_20221215T203059_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_20221215T203540_20221215T204733_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_20221215T204815_20221215T204834_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_20221215T212634_20221215T214134_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_20221215T214412_20221215T214853_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_20221215T214915_20221215T214924_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_20221215T215542_20221215T222213_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_20221215T222331_20221215T222951_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_20221215T225556_20221215T231638_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_20221215T232427_20221215T232808_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_20221215T232830_20221215T233156_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_20221215T233504_20221216T000248_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221215T025447_20221215T025610_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_GOPN_2_20221215T033139_20221215T0333305_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_GOPN_2_20221215T083550_20221215T083608_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_GOPN_2_20221215T104657_20221215T104930_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_GOPN_2_20221215T205529_20221215T205740_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPN_2_20221215T214924_20221215T214931_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_GOPN_2_20221215T225058_20221215T225231_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_GOPN_2_20221215T232158_20221215T232427_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPR_2_20221215T034122_20221215T034450_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_GOPR_2_20221215T040632_20221215T040916_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (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.

Test Failed	Description
OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or more records
TAITIMETER RANGE AND BACKSCATTER CHAITY	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	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
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
TAITIMETER RANGE AND BACKSCATTER CHAITIVE	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
TAITIMETER 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
TAITIMETER 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
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
TAITIMETER 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
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM, OCOG 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 Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range Qual

CS_OFFL_SIR_GOPN_2_20221215T132843_20221215T133233_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_20221215T140337_20221215T140443_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_20221215T141422_20221215T141544_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_20221215T142941_20221215T143107_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_20221215T150825_20221215T151139_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_20221215T151652_20221215T151809_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_20221215T153758_20221215T153919_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_20221215T164543_20221215T165002_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_20221215T165558_20221215T165713_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_20221215T173512_20221215T173751_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_20221215T173808_20221215T173932_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_20221215T183321_20221215T183507_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_20221215T191737_20221215T191840_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_20221215T192404_20221215T192445_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_20221215T200300_20221215T200442_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_20221215T201631_20221215T201756_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_20221215T203100_20221215T203256_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_20221215T203256_20221215T203540_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_20221215T205209_20221215T205526_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_20221215T215045_20221215T215420_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_20221215T222955_20221215T223118_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_20221215T223212_20221215T223603_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_20221215T224111_20221215T224148_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_20221215T232158_20221215T232427_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_20221215T233156_20221215T233339_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_20221215T010306_20221215T011049_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_20221215T011125_20221215T011320_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_20221215T011348_20221215T011533_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_20221215T015005_20221215T015207_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_20221215T020242_20221215T020604_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_20221215T024233_20221215T024911_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_20221215T024911_20221215T025204_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_20221215T032823_20221215T033139_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_20221215T034122_20221215T034450_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_20221215T041854_20221215T041930_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_20221215T042106_20221215T042811_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_20221215T042811_20221215T043004_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_20221215T050742_20221215T051139_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_20221215T055802_20221215T055807_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_20221215T060232_20221215T060707_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_20221215T064457_20221215T065200_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_20221215T074035_20221215T074544_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_20221215T074544_20221215T074709_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_20221215T080935_20221215T081148_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_20221215T084217_20221215T084302_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_20221215T090144_20221215T090531_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_20221215T092032_20221215T092156_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_20221215T092220_20221215T092640_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_20221215T092853_20221215T092944_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_20221215T093212_20221215T093428_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_20221215T093551_20221215T093635_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_20221215T100807_20221215T100921_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_20221215T105810_20221215T110139_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_20221215T110147_20221215T110601_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_20221215T120018_20221215T120128_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_20221215T123631_20221215T124639_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_20221215T132510_20221215T132842_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_20221215T140532_20221215T140758_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_20221215T142000_20221215T142748_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_20221215T155644_20221215T155924_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_20221215T155946_20221215T161012_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_20221215T165713_20221215T170038_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

> 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: 192

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: 65

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: 152

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: 0

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: 29

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220221215T001858_20221215T010834_C001	Topography (1), Total Geocentric Ocean	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_220221215T010834_20221215T015813_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_220221215T015813_20221215T024749_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_220221215T024749_20221215T033728_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_220221215T033728_20221215T042703_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_220221215T042703_20221215T051642_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_220221215T051642_20221215T060618_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_220221215T060618_20221215T065557_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_220221215T065557_20221215T074533_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_220221215T074533_20221215T083511_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_220221215T083511_20221215T092447_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_220221215T092447_20221215T101426_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_220221215T101426_20221215T110402_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_220221215T110402_20221215T115341_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_220221215T115341_20221215T124317_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_220221215T124317_20221215T133256_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_220221215T133256_20221215T142231_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_220221215T142231_20221215T151210_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_220221215T151210_20221215T160146_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_220221215T160146_20221215T165125_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_220221215T165125_20221215T174101_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_220221215T174101_20221215T183040_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_220221215T183040_20221215T192015_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_220221215T192015_20221215T200954_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_220221215T200954_20221215T205930_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_220221215T205930_20221215T214909_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_220221215T214909_20221215T223845_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_220221215T223845_20221215T232824_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_220221215T232824_20221216T001759_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

0

P2P Quality Flags (20 Hz)

Number of products with errors:

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.

30

Number of products with errors: 30

P2P Quality Flags (1 Hz & 1 Hz PLRM)

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

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

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

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

Number of products with errors: 29

P2P Retracking Flags PLRM

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

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

Number of products with errors: 30

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors	
SIR_GOPM1B	183	183	3	180	0	
SIR_GOPR1B	148	148	0	148	0	
SIR_GOPN1B	104	104	1	103	0	
SIR_GOPM_2	183	183	132	51	0	
SIR_GOPR_2	148	148	62	86	0	
SIR_GOPN_2	104	104	36	68	0	
SIR_GOP_P2P	29	29	0	29	0	

7.1 QCC Errors

Number of QCC reports with errors:

0

7.2 QCC Warnings

Number of QCC reports with warnings

2243

Total number of occurrences of each warning MVIOEPNCDE MVIONCDE RBSZOPOEPEDNCDE

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF
SIR_GOPM1B	180	0	0	0	0	0	0
SIR_GOPM_2	0	35	33	0	46	0	34
SIR_GOPN1B	102	0	0	0	0	0	0
SIR_GOPN_2	0	9	35	7	27	29	20
SIR_GOPR1B	143	0	0	0	0	0	0
SIR_GOPR_2	0	30	51	1	28	20	11

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	30	0	0	0	0	24
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	1	0	0	26	0	35	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	2	0	50	0	55	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	8	27	0	6	29
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	31	19	48	56	35	25
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	50	0	7	66	35	10	33

Pr	oduct Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SI	R_GOPM1B	0	0	0	0	0		
SI	R_GOPM_2	0	2	0	0	0		
SI	R_GOPN1B	0	0	0	49	0		
SI	IR_GOPN_2	28	9	1	0	0		
SI	R_GOPR1B	0	0	0	148	8		
SI	IR_GOPR_2	50	4	1	0	0		

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	10	29	29	7	29	14	28

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	3	16		25	19	29	17

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_GOP_2_	26	28	16	12	29		

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			

MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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

Number of products with missing QCC reports: