

1. Overview

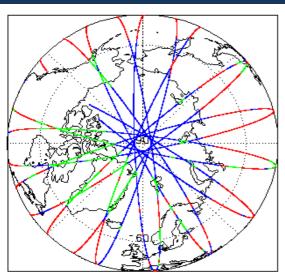
Report Production:	22-May-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

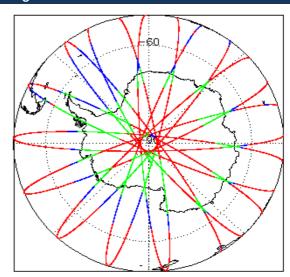
We would love to hear from you!
Please let us know your feedback about these daily
quality reports: What do you like/ dislike? What quality
information do you need? Send your feedback to
cs2_qc_team@telespazio.com

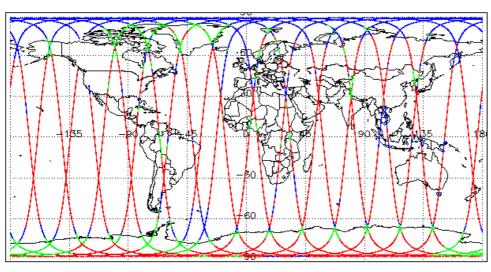
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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 7.1 and 7.2	See Section 7.1 and 7.2

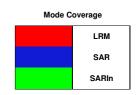
		ment News
	Apr-2023	None
19-	Apr-2023	None
20-	Apr-2023	Nothing planned

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.

Number of products with errors:

U

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:

0

15

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20230419T005632_20230419T011208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230419T142914_20230419T144040_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20230419T201655_20230419T202440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T000137_20230419T000531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T031952_20230419T032209_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T045919_20230419T050403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T082259_20230419T082427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T130526_20230419T130947_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T131047_20230419T131156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T144624_20230419T144952_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T144952_20230419T145054_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20230419T231543_20230419T231606_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230419T045510_20230419T045918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20230419T062935_20230419T063959_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

0

0

5.4 L2 Auxiliary Correction Error Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230419T045030_20230419T045110_C001	IMean Dynamic Tonography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230419T045110_20230419T045112_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20230419T080112_20230419T080204_C001	IMean Dynamic Tonography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPM_2_20230419T200134_20230419T200223_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_20230419T000137_20230419T000531_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_20230419T004514_20230419T004748_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_20230419T014345_20230419T014627_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_20230419T022014_20230419T022620_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_20230419T031952_20230419T032209_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_20230419T040234_20230419T040417_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_20230419T045919_20230419T050403_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_20230419T055053_20230419T055334_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_20230419T072157_20230419T072546_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_20230419T082259_20230419T082427_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_20230419T090138_20230419T090452_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_20230419T091005_20230419T091123_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_20230419T095236_20230419T095306_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_20230419T104912_20230419T105025_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_20230419T112822_20230419T113054_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20230419T113124_20230419T113247_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_20230419T130526_20230419T130947_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_GOPN_2_20230419T131047_20230419T131156_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_20230419T140449_20230419T140722_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_20230419T144624_20230419T144952_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_GOPN_2_20230419T144952_20230419T145054_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_20230419T154400_20230419T154730_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_20230419T162525_20230419T162916_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_20230419T172509_20230419T172651_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_20230419T203418_20230419T203541_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_20230419T204107_20230419T204420_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_20230419T213223_20230419T213330_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_20230419T221352_20230419T221506_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_20230419T222006_20230419T222325_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_20230419T235442_20230419T235719_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_20230418T235549_20230419T000020_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_20230419T000020_20230419T000137_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_20230419T013353_20230419T013855_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_20230419T013855_20230419T014024_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_20230419T031529_20230419T031952_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_20230419T045511_20230419T045918_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_20230419T062935_20230419T063959_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_20230419T080204_20230419T080306_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_20230419T081313_20230419T082101_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_20230419T095306_20230419T100358_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_20230419T113247_20230419T113659_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_20230419T131157_20230419T131719_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_20230419T140722_20230419T140938_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_20230419T145054_20230419T145755_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_20230419T151211_20230419T151758_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_20230419T162917_20230419T163423_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_20230419T180620_20230419T181455_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_20230419T194531_20230419T195305_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_20230419T195639_20230419T195843_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_20230419T200223_20230419T200409_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_20230419T212036_20230419T213057_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:

in 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.

Toet Failed

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20230419T000621_20230419T002545_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_20230419T002548_20230419T003820_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_20230419T004748_20230419T004943_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_20230419T005138_20230419T005447_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_20230419T005632_20230419T011208_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_20230419T011411_20230419T012434_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_20230419T014140_20230419T014345_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_20230419T014627_20230419T014834_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_20230419T015043_20230419T020251_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

CO. CARL BRIEF COPPUL 2 2020-041102008 (2020417010000) CO. CARL BRIEF CORP. 2 2020-041102008 (202041700000) CO. CARL BRIEF CORP. 2 2020-041102000 (202041700000) CO. CARL BRIEF CORP. 2 2020-041102000 (202041700000) CO. CARL BRIEF CORP. 2 2020-041102000 (2020417000000) CO. CARL BRIEF CORP. 2 2020-041102000 (20204170000000) CO. CARL BRIEF CORP. 2 2020-041102000 (20204170000000) CO. CARL BRIEF CORP. 2 2020-041102000 (2020417000000000000000000000000000000000			
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### Objection Carby Company The Company of Detection Carby T	CS_OFFL_SIR_GOPM_2_20230419T022920_20230419T023349_C001		
CBC CPFL BIR SCPPL 2 2020419T02511, 2020419T0254C CRIST	CS_OFFL_SIR_GOPM_2_20230419T023556_20230419T025035_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
See CPFL SRIL SGPM 2 222294197182992 20204197182904 (2011) CSC CPFL SRIL SGPM 2 222294197182992 20204197182914 (2011) CSC CPFL SRIL SGPM 2 222294197182992 2020419718291 (2011) CSC CPFL SRIL SGPM 2 222294197182992 2020419718291 (2011) CSC CPFL SRIL SGPM 2 22229419718292 2020419718291 (2011) CSC CPFL SRIL SGPM 2 22229419718292 2020419718292 (2011) CSC CPFL SRIL SGPM 2 22229419718292 2020419719292 (2011) CSC CPFL SRIL SGPM 2 22229419718292 2020419719293 (2011) CSC CPFL SRIL SGPM 2 22229419718293 2020419719293 (2011)	CS_OFFL_SIR_GOPM_2_20230419T025215_20230419T025458_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SCOPPLISIT_COPPL_2.2020419710374_00000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20230419T032912_20230419T033457_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DR_OFFL_SIR_SOM_2_2020619T00182_2020619T00182_C001 CR_OFFL_SIR_SOM_2_2020619T00182_2020619T00182_C001 CR_OFFL_SIR_SOM_2_2020619T00182_2020619T00182_C001 CR_OFFL_SIR_SOM_2_2020619T00182_2020619T00492_C001 CR_OFFL_SIR_SOM_2_2020619T00182_2020619T00492_C001 CR_OFFL_SIR_SOM_2_2020619T00182_2020619T00492_C001 CR_OFFL_SIR_SOM_2_2020619T00492_2020619T00492_C001 CR_OFFL_SIR_SOM_2_2020619T00492_C0020619T00492_C001 CR_OFFL_SIR_SOM_2	CS_OFFL_SIR_GOPM_2_20230419T033741_20230419T034004_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Saukscrafter Coatily Coate Altimeter Range, SSIA, 59/H Altimeter Range, SSIA,	CS_OFFL_SIR_GOPM_2_20230419T034008_20230419T040144_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
The Coccasion Flags and Backscatter Quality (Coccasion) Coccasion Affirmeter Flags (Coccasion) Coccasion Affirmeter Coccasion Affirmeter Flags (Coccasion) Coccasion Affirmeter Flags (Coccasion) Coccasion Coccasion) Coccasion Affirmeter Flags (Coccasion) Coccasion Affirmeter Flags (Coccasion) Coccasion Coccasion) Coccasion	CS_OFFL_SIR_GOPM_2_20230419T040418_20230419T041256_C001		
and Backscatter Causily, COCO Allimeter Range and Backscatter Causily Riaga have been all to COCO Allimeter Range and Backscatter Causily Riaga have been set for one or more records CS_OFFL_Sill_SOPM_2_28220419T04448_20230419T040512_COCI	CS_OFFL_SIR_GOPM_2_20230419T041524_20230419T044024_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Caulty CS_OFFL_SIR_OOPM_2_20230419T05403_20230419T05909_C001 CS_OFFL_SIR_OOPM_2_20230419T05403_20230419T051090_C001 CS_OFFL_SIR_OOPM_2_20230419T05404_20230419T06190_C001 CS_OFFL_SIR_OOPM_2_20230419T06901_2000419T06190_C001 CS_OFFL_SIR_OOPM_2_20230419T06901_2000419T06190_C001 CS_OFFL_SIR_OOPM_2_20230419T06901_2000419T06190_C001 CS_OFFL_SIR_OOPM_2_20230419T06901_2000419T07194_C001 CS_OFFL_SIR_OOPM_2_20230419T07409_C001 CS_OFFL_SIR_OOPM_2_20230419T07409_C001 CS_OFFL_SIR_OOPM_2_20230419T07409_C001 CS_OFFL_SIR_OOPM_2_20230419T07301_20230419T073015_C001 CS_OFFL_SIR_OOPM_2_20230419T070403_20230419T091045_C001 CS_OFFL_SIR_OOPM_2_20230419T091045_C001 CS_OFFL_SIR_OOPM_2_20230419T091050_2020419T091045_C001 CS_OFFL_SIR_OOPM_2_20230419T091045_C001 CS_OFFL_SIR_OOPM_2_20230419T091045_C001 CS_OFFL_SIR_OOPM_2_2023	CS_OFFL_SIR_GOPM_2_20230419T051255_20230419T054029_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_202304197065424_202304197061909_C001 All inferiter Range and Backscatter Quality Flags and the COCOA Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_202304197061911_202304197061928_C001 CS_OFFL_SIR_GOPM_2_202304197062003_202304197062004_C001 CS_OFFL_SIR_GOPM_2_202304197062003_202304197062004_C001 CS_OFFL_SIR_GOPM_2_202304197062003_202304197073133_C001 CS_OFFL_SIR_GOPM_2_202304197073301_202304197073133_C001 CS_OFFL_SIR_GOPM_2_202304197073301_202304197073135_C001 CS_OFFL_SIR_GOPM_2_202304197073301_202304197073155_C001 CS_OFFL_SIR_GOPM_2_20230419709305_2_202304197094055_C001 CS_OFFL_SIR_GOPM_2_202304197090453_202304197094055_C001 CS_OFFL_SIR_GOPM_2_202304197090453_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_C001 CS_OFFL_SIR_GOPM_2_202304197091518_202304197091005_	CS_OFFL_SIR_GOPM_2_20230419T054346_20230419T054517_C001		
and Backscatter Quality, COGG Altimeter Range and Backscatter Quality Flags have been set for non or more records CS_OFFL_SIR_GOPM_2_202304197061911_202304197061928_CO01 CS_OFFL_SIR_GOPM_2_202304197062003_202304197062024_CO01 Backscatter Quality, COGG Backscatter Quality, CO	CS_OFFL_SIR_GOPM_2_20230419T054633_20230419T055052_C001		
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230419T08203_20230419T082024_C001 CS_OFFL_SIR_GOPM_2_20230419T084733_20230419T071949_C001 CS_OFFL_SIR_GOPM_2_20230419T072548_20230419T073313_C001 CS_OFFL_SIR_GOPM_2_20230419T07331_20230419T073315_C001 CS_OFFL_SIR_GOPM_2_20230419T07331_20230419T073915_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T073915_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T073915_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T073915_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T073915_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T073915_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T073955_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T0738594_C001 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09123_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T093112_C001 CS_O	CS_OFFL_SIR_GOPM_2_20230419T055424_20230419T061909_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230419T084733_20230419T071949_C001 CS_OFFL_SIR_GOPM_2_20230419T072546_20230419T073133_C001 CS_OFFL_SIR_GOPM_2_20230419T072546_20230419T073133_C001 CS_OFFL_SIR_GOPM_2_20230419T072546_20230419T073133_C001 CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T073135_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T073955_C001 CS_OFFL_SIR_GOPM_2_20230419T07333_20230419T074959_C001 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T085844_C001 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T091045_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T091045_C001 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T091045_C001 CS_OFFL_SIR_GOPM_2_20230419T091033_20230419T091045_C001 CS_OFFL_SIR_GOPM_2_20230419T091033_20230419T091045_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T091045_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T091045_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T0930307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T0930307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T0930307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T0930307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T0930307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T0930307_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T0930307_20230419T09100	CS_OFFL_SIR_GOPM_2_20230419T061911_20230419T061928_C001		
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, CCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T073133_CO01 CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T073915_CO01 CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T073915_CO01 CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T074959_CO01 CS_OFFL_SIR_GOPM_2_20230419T074333_20230419T074959_CO01 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T085944_CO01 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T095540_CO01 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T09103_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_CO01 CS_OFFL_SIR_GOPM_2_20230419T00358_20230419T103102_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_O	CS_OFFL_SIR_GOPM_2_20230419T062003_20230419T062024_C001		i.
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T073915_CO01 CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T073915_CO01 CS_OFFL_SIR_GOPM_2_20230419T074333_20230419T074959_CO01 CS_OFFL_SIR_GOPM_2_20230419T074333_20230419T074959_CO01 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T085844_CO01 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T0955_CO01 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_CO01 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T091512_CO01 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T09105_CO01 CS_OFFL_SIR_GOPM_2_20230419T00358_20230419T00350_CO01 CS_OFFL_SIR_GOPM_2_20230419T00358_20230419T00305_CO01 CS_OFFL_SIR_GOPM_2_20230419T00358_20230419T00305_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T101345_C0030419T10358_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T101345_C0230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_00230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_00230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_00230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_00230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_00230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_0	CS_OFFL_SIR_GOPM_2_20230419T064733_20230419T071949_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SIR_GOPM_2_20230419T074333_20230419T074959_CO01 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T085844_CO01 CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T085844_CO01 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T091095_CO01 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T091095_CO01 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_CO01 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_CO01 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_CO01 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_CO01 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_CO01 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T093105_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T0930105_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T0930105_CO01 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T093005_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T010302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T010302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_CO01 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103104_CO01 CS_OFFL_SIR_GOPM_2_20230419T101350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T101350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T10350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T10350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T10350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T10350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T10350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T10350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2_20230419T10350_20230419T103140_CO01 CS_OFFL_SIR_GOPM_2	CS_OFFL_SIR_GOPM_2_20230419T072546_20230419T073133_C001		
CS_OFFL_SIR_GOPM_2_20230419T09158_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T09105_C001 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_C001 CS_OFFL_SIR_GOPM_2_20230419T00358_20230419T101302_C001 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101340_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOP	CS_OFFL_SIR_GOPM_2_20230419T073301_20230419T073915_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T091005_C001 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T091453_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T0933112_C001 CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_C001 CS_OFFL_SIR_GOPM_2_20230419T10358_20230419T101302_C001 CS_OFFL_SIR_GOPM_2_20230419T10358_20230419T101302_C001 CS_OFFL_SIR_GOPM_2_20230419T10358_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103102_C001 CS_OFFL_SIR_GOPM_2_20230419T101455_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C	CS_OFFL_SIR_GOPM_2_20230419T074333_20230419T074959_C001		
Backscatter Quality CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_C001 Doean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been 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 Altimet	CS_OFFL_SIR_GOPM_2_20230419T082427_20230419T085844_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T093112_C001 CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_C001 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103102_C001 CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103150_20230419T103720_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103720_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T103150	CS_OFFL_SIR_GOPM_2_20230419T090453_20230419T091005_C001		
CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Cs_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_C001 Cs_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_C001 Cs_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_C001 Cs_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_C001 Cs_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 Cs_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 Cs_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 Cs_OFFL_SIR_GOPM_2_20230419T1013150_20230419T103720_C001 Cs_OFFL_SIR_GOPM_2_20230419T103150_20230419T103720_C001 Cs_OFFL_SIR_GOPM_2_20230419T103150_20230419T10372	CS_OFFL_SIR_GOPM_2_20230419T091203_20230419T091453_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T10150_20230419T103720_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103720_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103720_C001 CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103720_C001 Altimeter Range, SSHA, SWH 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 Back	CS_OFFL_SIR_GOPM_2_20230419T091518_20230419T093112_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_GOPM_2_20230419T093307_20230419T094025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags And Backscatter Q	CS_OFFL_SIR_GOPM_2_20230419T100358_20230419T101302_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103720_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPM_2_20230419T101445_20230419T103140_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPM_2_20230419T103150_20230419T103720_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20230419T104310_20230419T104453_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T104500_20230419T104912_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T105125_20230419T111322_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_20230419T111356_20230419T112642_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_20230419T114438_20230419T115914_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_20230419T120207_20230419T120907_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_20230419T121028_20230419T121643_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_20230419T121830_20230419T122353_C001	0 ,,	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T122412_20230419T122630_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T123459_20230419T124725_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_20230419T124835_20230419T130521_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_20230419T131917_20230419T131947_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T132812_20230419T133825_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_20230419T134029_20230419T135554_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_20230419T135757_20230419T140252_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T141140_20230419T141703_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_20230419T142914_20230419T144040_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_20230419T151950_20230419T153451_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_20230419T153730_20230419T154207_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T154823_20230419T161120_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_20230419T161122_20230419T161525_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_20230419T164901_20230419T170922_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_20230419T171014_20230419T171418_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_20230419T171737_20230419T172122_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T172144_20230419T172509_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_GOPM_2_20230419T172740_20230419T175503_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_20230419T181924_20230419T185411_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_20230419T181924_20230419T185411_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPM_2_20230419T185545_20230419T190036_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_20230419T190732_20230419T194212_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_20230419T202726_20230419T202851_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_20230419T203051_20230419T203340_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_20230419T203541_20230419T204107_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_20230419T204659_20230419T210909_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_20230419T211155_20230419T212036_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_20230419T213355_20230419T213634_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_20230419T215310_20230419T221248_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_20230419T221506_20230419T222006_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_20230419T222604_20230419T225859_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_20230419T230244_20230419T230308_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_20230419T232449_20230419T234744_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_20230419T082102_20230419T082216_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_20230419T090138_20230419T090452_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_20230419T103140_20230419T103150_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_20230419T164411_20230419T164549_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_20230419T172509_20230419T172651_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.

Number of products with errors:

97

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20230419T000137_20230419T000531_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_20230419T004514_20230419T004748_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_20230419T004944_20230419T005138_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_20230419T005447_20230419T005612_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_20230419T012434_20230419T012726_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_20230419T014345_20230419T014627_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_20230419T022014_20230419T022620_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_20230419T031952_20230419T032209_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_20230419T032257_20230419T032525_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_20230419T032744_20230419T032906_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_20230419T040234_20230419T040417_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_20230419T045919_20230419T050403_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_20230419T050453_20230419T050615_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_20230419T051106_20230419T051216_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_20230419T054213_20230419T054346_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_20230419T054517_20230419T054633_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_20230419T072157_20230419T072546_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_20230419T074959_20230419T075155_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_20230419T075651_20230419T075756_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_20230419T080306_20230419T080337_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_20230419T080737_20230419T080859_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_20230419T090138_20230419T090452_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_20230419T093113_20230419T093306_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_20230419T121705_20230419T121829_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_20230419T122630_20230419T122816_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_20230419T130526_20230419T130947_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_20230419T131047_20230419T131156_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_20230419T135614_20230419T135757_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_20230419T142359_20230419T142853_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_20230419T144150_20230419T144313_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_20230419T144624_20230419T144952_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_20230419T162525_20230419T162916_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_20230419T164411_20230419T164549_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_20230419T164648_20230419T164900_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_20230419T172509_20230419T172651_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_20230419T181456_20230419T181517_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_20230419T194500_20230419T194530_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_20230419T213634_20230419T213833_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_20230419T214036_20230419T214059_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_20230419T221352_20230419T221506_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_20230419T222006_20230419T222325_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_20230419T235442_20230419T235719_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_20230419T003821_20230419T004513_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_20230419T013353_20230419T013855_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_20230419T014834_20230419T015042_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_20230419T020251_20230419T020503_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_20230419T025036_20230419T025215_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_20230419T025458_20230419T025754_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_20230419T025759_20230419T025809_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_20230419T025809_20230419T025925_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_20230419T031346_20230419T031513_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_20230419T031529_20230419T031952_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_20230419T032434_20230419T032436_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_20230419T032526_20230419T032744_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_20230419T044446_20230419T044521_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_20230419T045112_20230419T045114_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_20230419T045511_20230419T045918_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_20230419T062935_20230419T063959_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_20230419T071950_20230419T072157_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_20230419T075830_20230419T080107_C001	OCOG Attimeter 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_20230419T080109_20230419T080112_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_20230419T081313_20230419T082101_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_20230419T082216_20230419T082228_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_20230419T094026_20230419T094219_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_20230419T094331_20230419T094349_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_20230419T094407_20230419T094442_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_20230419T095009_20230419T095236_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_20230419T095306_20230419T100358_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_20230419T113659_20230419T114022_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_20230419T114147_20230419T114340_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_20230419T115914_20230419T120206_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_20230419T122816_20230419T123459_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_20230419T124726_20230419T124835_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_20230419T131157_20230419T131719_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_20230419T140722_20230419T140938_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_20230419T144041_20230419T144125_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_20230419T144444_20230419T144529_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_20230419T145054_20230419T145755_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_20230419T151150_20230419T151210_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_20230419T151211_20230419T151758_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_20230419T151800_20230419T151949_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_20230419T161525_20230419T161746_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_20230419T162917_20230419T163423_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_20230419T163502_20230419T163704_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_20230419T180620_20230419T181455_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_20230419T181517_20230419T181750_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_20230419T190555_20230419T190731_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:

207

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:

66

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:

4

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:

0

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:

Ω

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:

20

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20230418T235926_20230419T004904_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230419T004904_20230419T013841_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T013841_20230419T022819_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230419T022819_20230419T031756_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T031756_20230419T040733_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T040733_20230419T045710_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T045710_20230419T054648_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T054648_20230419T063625_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T063625_20230419T072603_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T072603_20230419T081540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T081540_20230419T090518_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T090518_20230419T095454_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T095454_20230419T104432_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T104432_20230419T113409_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_GOP_2_20230419T113409_20230419T122347_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T122347_20230419T131324_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230419T131324_20230419T140301_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T140301_20230419T145238_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20230419T145238_20230419T154216_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T154216_20230419T163153_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T163153_20230419T172131_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T172131_20230419T181108_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T181108_20230419T190046_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T190046_20230419T195022_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T195022_20230419T204000_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T204000_20230419T212937_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T212937_20230419T221915_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T221915_20230419T230852_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20230419T230852_20230419T235829_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

P2P Quality Flags (20 Hz)

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

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

Number of products with errors:

P2P Quality Flags (20 Hz PLRM)

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

Number of products with errors:

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: 2

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: 26

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: 29

7. GOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOPM1B	167	167	6	161	0
SIR_GOPR1B	150	150	1	149	0
SIR_GOPN1B	102	102	1	101	0
SIR_GOPM_2	167	167	110	57	0
SIR GOPR 2	150	150	60	89	1
SIR GOPN 2	102	102	36	66	0
SIR GOP P2P	29	29	0	27	2

7.1 QCC Errors

Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_GOPR_2	1	1	1	1	1	1					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
Product Type SIR_GOP_2_	RLOBOPNCDF 2	RL 2	RLOBOPNCDF 2	RL 2	-	-	-	-	-	-	-

Test Description Key:	est Description Key:						
Abbreviation	Test name	Details					
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7					
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6					
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7					
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7					

7.2 QCC Warnings

Number of QCC reports with warnings

2245 Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_GOPM1B	161	0	0	0	0	0	0
SIR_GOPM_2	0	0	44	42	0	43	0
SIR_GOPN1B	98	0	0	0	0	0	0
SIR_GOPN_2	0	0	15	31	5	30	31
SIR_GOPR1B	143	0	0	0	0	0	0
SIR_GOPR_2	0	1	31	48	0	28	25

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	35	0	35	0	0	0	0
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	23	1	0	0	20	0	31
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	13	1	0	51	0	59	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	31	0	0	3	28	0	7
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	0	25	15	42	56	29
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	0	46	0	5	70	33	8

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_GOPM1B	0	0	0	1	1	0	0
SIR_GOPM_2	38	0	4	1	1	0	0
SIR_GOPN1B	0	0	0	0	0	0	49
SIR_GOPN_2	28	27	11	0	0	0	0
SIR_GOPR1B	0	0	0	0	0	0	149
SIR_GOPR_2	41	48	4	0	2	4	0

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	RBSZOPOEPNCDF
SIR_GOP_2_	18		29	4	29	17	29

	roduct Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCDI	III EI OI I DOIMHODI	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SI	IR_GOP_2_	2	15		22	15	29	17

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR GOP 2	22	29	17	13	29		

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	Missing Value Int Ocean Net CDF	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
RSWHOEPFDPLRMN CDF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees

SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0