

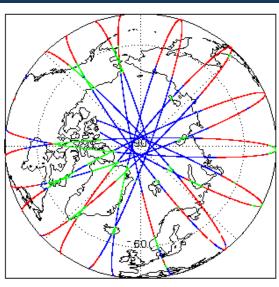
1. Overview

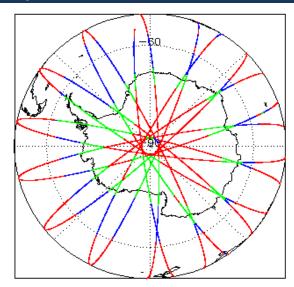
Report Production:	24-Aug-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

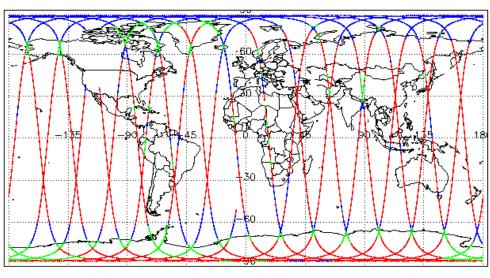
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

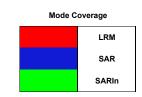
Mission / Instrument News		
22-Jul-2020	None	
23-Jul-2020	CRYO2ICE Orbit raising activities. SIRAL unavailability from 23/07/2020 22:30:21 UTC to 24/07/2020 05:14:31 UTC	
24-Jul-2020	CRYO2ICE Orbit raising activities.	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B GOPR and GOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

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:

Λ

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200723T030549_20200723T032036_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20200723T060721_20200723T061218_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20200723T141947_20200723T144044_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20200723T001837_20200723T002345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200723T005105_20200723T005447_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200723T021336_20200723T021455_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200723T090949_20200723T091113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200723T141947_20200723T144044_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200723T152938_20200723T154455_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20200723T171041_20200723T171315_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200723T024114_20200723T024148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200723T083228_20200723T083356_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200723T123021_20200723T123256_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200723T123259_20200723T123334_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20200723T154932_20200723T155146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20200723T103955_20200723T104334_C001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

Product	Test Failed Mean Sea Surface (1), Mean Dynamic	Description
CS_OFFL_SIR_GOPM_2_20200723T020528_20200723T021334_C001	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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPM_2_20200723T042956_20200723T043704_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPM_2_20200723T090948_20200723T091113_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_20200723T160408_20200723T161923_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_20200723T191821_20200723T191950_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_20200723T000518_20200723T000633_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_20200723T001126_20200723T001453_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_20200723T014603_20200723T014838_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_20200723T024114_20200723T024148_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20200723T032126_20200723T032728_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_20200723T033443_20200723T033621_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_20200723T042037_20200723T042239_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_20200723T050330_20200723T050518_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_20200723T051349_20200723T051542_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_20200723T055950_20200723T060440_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_20200723T082234_20200723T082354_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_20200723T082413_20200723T082632_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200723T100226_20200723T100539_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_20200723T101059_20200723T101217_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_20200723T114109_20200723T114428_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_20200723T114956_20200723T115120_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_20200723T123021_20200723T123256_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) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Tota Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocea Tide for one or more records
CS_OFFL_SIR_GOPN_2_20200723T123259_20200723T123334_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_20200723T132801_20200723T132940_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_20200723T140640_20200723T140807_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_20200723T141135_20200723T141232_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_20200723T145650_20200723T145832_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_20200723T150544_20200723T150756_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_20200723T154932_20200723T155146_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_20200723T163603_20200723T163749_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_20200723T164434_20200723T165036_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_20200723T172615_20200723T173011_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_20200723T181557_20200723T181830_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_20200723T182541_20200723T182737_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_20200723T222146_20200723T222316_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_20200723T005448_20200723T010119_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_20200723T010119_20200723T010246_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_20200723T023347_20200723T024005_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_20200723T024005_20200723T024114_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_20200723T030336_20200723T030549_C001	Mean Sea Surface (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20200723T041623_20200723T041740_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_20200723T041740_20200723T042037_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_20200723T055325_20200723T055950_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_20200723T060510_20200723T060721_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOPR_2_20200723T073500_20200723T074014_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_20200723T090259_20200723T090504_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_20200723T091404_20200723T092202_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_20200723T105233_20200723T110124_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_20200723T123334_20200723T124118_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_20200723T141232_20200723T141814_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_20200723T155147_20200723T155828_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_20200723T173011_20200723T173532_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_20200723T190832_20200723T191820_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_20200723T204624_20200723T205332_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_20200723T210403_20200723T210451_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_20200723T222453_20200723T223022_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR GOPM 2 20200723T030549 20200723T032036 C001		There is an error in the scaling of the L2 waveform for one or more records
	C C	ů
CS_OFFL_SIR_GOPM_2_20200723T060721_20200723T061218_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20200723T141947_20200723T144044_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

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

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

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

Number of products with errors:

82

CS_OFFL_SIR_GOPM_2_20200723T00154_20200723T00154_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002345_C001 CS_OFFL_SIR_GOPM_2_20200723T001657_20200723T002054_C001 CS_OFFL_SIR_GOPM_2_20200723T01657_20200723T002054_C001 CS_OFFL_SIR_GOPM_2_20200723T01657_202000723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_202000723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_20200723T01657_202000723T01657_20200723T01657_20200723T01657_20200723T01657_20200723
Backscater Quality for one or more records. CS_OFFL_SIR_GOPM_2_20200723T001837_20200723T002445_CO01 CS_OFFL_SIR_GOPM_2_20200723T001837_20200723T002445_CO01 CS_OFFL_SIR_GOPM_2_20200723T0102354_20200723T002544_CO01 CS_OFFL_SIR_GOPM_2_20200723T01054_20200723T011437_CO01 CS_OFFL_SIR_GOPM_2_20200723T011607_20200723T011437_CO01 CS_OFFL_SIR_GOPM_2_20200723T011607_20200723T013904_CO01 CS_OFFL_SIR_GOPM_2_20200723T011607_20200723T013904_CO01 CS_OFFL_SIR_GOPM_2_20200723T015808_20200723T023036_CO01 CS_OFFL_SIR_GOPM_2_20200723T015808_20200723T022700_CO01 CS_OFFL_SIR_GOPM_2_20200723T015808_20200723T022700_CO01 CS_OFFL_SIR_GOPM_2_20200723T015808_20200723T022700_CO01 CS_OFFL_SIR_GOPM_2_20200723T015808_20200723T025500_CO01 CS_OFFL_SIR_GOPM_2_20200723T024825_20200723T025500_CO01 CS_OFFL_SIR_GOPM_2_20200723T024825_20200723T025500_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T025500_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T023036_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T023036_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T023036_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T025500_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T025500_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T025500_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T032346_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T032346_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T032346_CO01 CS_OFFL_SIR_GOPM_2_20200723T0305520_20200723T032346_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030332_CO01 CS_OFFL_SIR_GOPM_2_20200723T030333_CO01 CS_OFFL_SIR_GOPM_2_20200723T030333_CO01 CS_OFFL_SIR_GOPM_2_20200723T030333_CO01 CS_OFFL_SIR_GOPM_2_20200723T030333_CO01 CS_OFFL_SIR_GOPM_2_20200723T030333_CO01023T030344_CO01 CS_OFFL_SIR_GOPM_
CS_OFFL_SIR_GOPM_2_20200723T002354_20200723T002045_C001 And Backacatter Quality, CDCG Allmeter Range and Backacatter Quality CDCG Allmeter Range and Backacatter Quality CDCG Allmeter Range and Backacatter Quality CDCG Allmeter Range and Backacatter Quality Stage and Backacatter Quality CDCG Allmeter Range and Backacatter Quality Stage Allmeter Range and Backacatter Quality Stage National Stage S
and flaekscatter Quality, COG Allimeter Range and Backscatter Quality Flags har CS_OFFL_SIR_GOPM_2_20200723T011054_20200723T011437_CO01 CS_OFFL_SIR_GOPM_2_20200723T011054_20200723T011437_CO01 CS_OFFL_SIR_GOPM_2_20200723T011067_20200723T013004_C001 CS_OFFL_SIR_GOPM_2_20200723T011007_20200723T013004_C001 CS_OFFL_SIR_GOPM_2_20200723T015009_20200723T013004_C001 CS_OFFL_SIR_GOPM_2_20200723T015009_20200723T020336_C001 CS_OFFL_SIR_GOPM_2_20200723T015009_20200723T020336_C001 CS_OFFL_SIR_GOPM_2_20200723T015009_20200723T020336_C001 CS_OFFL_SIR_GOPM_2_20200723T015009_20200723T02000_C001 CS_OFFL_SIR_GOPM_2_20200723T024506_20200723T024547_C001 CS_OFFL_SIR_GOPM_2_20200723T024507_20200723T024547_C001 CS_OFFL_SIR_GOPM_2_20200723T024507_20200723T024500_C001 CS_OFFL_SIR_GOPM_2_20200723T024507_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T024507_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T024507_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T0330336_C001 CS_OFFL_SIR_GOPM_2_20200723T0303509_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001 CS_OFFL_SIR_GOPM_2_20200723T0330309_20200723T0330335_C001
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have to CS_OFFL_SIR_GOPM_2_20200723T015094_2000 CS_OFFL_SIR_GOPM_2_20200723T015088_20200723T020336_C001 CS_OFFL_SIR_GOPM_2_20200723T015808_20200723T020336_C001 CS_OFFL_SIR_GOPM_2_20200723T015808_20200723T020336_C001 CS_OFFL_SIR_GOPM_2_20200723T021308_20200723T022700_C001 CS_OFFL_SIR_GOPM_2_20200723T024386_20200723T024547_C001 CS_OFFL_SIR_GOPM_2_20200723T024235_20200723T024547_C001 CS_OFFL_SIR_GOPM_2_20200723T024807_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T024807_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T024807_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T03034807_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030540_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030540_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030540_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030540_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030540_20200723T0303344_C001 CS_OFFL_SIR_GOPM_2_20200723T030540_20200723T0303344_C001 CS_OFFL_SIR_GOPM_2_20200723T030540_20200723T0303443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0303443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0303443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0303443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0303443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0303443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0303443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0304443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0304443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T030443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T030443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T030443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T030443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T030443_C001 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0305444 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0305444 CS_OFFL_SIR_GOPM_2_20200723T0305302_20200723T0305444 CS_OFFL_SIR_GOPM_2_20200
CS_OFFL_SIR_GOPM_2_20200723T01607_20200723T013904_C001 and Backscatter Quality of Altimeter Range and Backscatter Quality Flags has Bac
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been been been been been been been be
and Backscatter Quality Altimeter Range and Backscatter Quality Flags has set for one or more records. CS_OFFL_SIR_GOPM_2_20200723T024235_20200723T024547_C001 CS_OFFL_SIR_GOPM_2_20200723T024235_20200723T024547_C001 CS_OFFL_SIR_GOPM_2_20200723T024807_20200723T025400_C001 CS_OFFL_SIR_GOPM_2_20200723T024807_20200723T025400_C001 CS_OFFL_SIR_GOPM_2_20200723T025520_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030549_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030549_20200723T032036_C001 CS_OFFL_SIR_GOPM_2_20200723T030033_20200723T03003443_C001 CS_OFFL_SIR_GOPM_2_20200723T030033_20200723T0300000000000000000000000000000
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200723T024807_20200723T025400_C001 CS_OFFL_SIR_GOPM_2_20200723T024807_20200723T025400_C001 CS_OFFL_SIR_GOPM_2_20200723T025520_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T025520_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030549_20200723T030335_C001 CS_OFFL_SIR_GOPM_2_20200723T030549_20200723T032036_C001 CS_OFFL_SIR_GOPM_2_20200723T030549_20200723T032036_C001 CS_OFFL_SIR_GOPM_2_20200723T030549_20200723T032036_C001 CS_OFFL_SIR_GOPM_2_20200723T0302728_20200723T032945_C001 CS_OFFL_SIR_GOPM_2_20200723T0302728_20200723T032945_C001 CS_OFFL_SIR_GOPM_2_20200723T0303023_20200723T033443_C001 CS_OFFL_SIR_GOPM_2_20200723T033023_20200723T033443_C001 CS_OFFL_SIR_GOPM_2_20200723T033023_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T033033_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T033033_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T040523_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T0405
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to for one or more records. CS_OFFL_SIR_GOPM_2_20200723T032728_20200723T032945_C001 CS_OFFL_SIR_GOPM_2_20200723T033023_20200723T033443_C001 CS_OFFL_SIR_GOPM_2_20200723T033023_20200723T033443_C001 CS_OFFL_SIR_GOPM_2_20200723T033715_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T035303_20200723T035124_C001 CS_OFFL_SIR_GOPM_2_20200723T035303_20200723T040523_C001 CS_OFFL_SIR_GOPM_2_20200723T035303_20200723T040523_C001 CS_OFFL_SIR_GOPM_2_20200723T03503_20200723T040523_C001
CS_OFFL_SIR_GOPM_2_20200723T035520_20200723T030335_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality
CS_OFFL_SIR_GOPM_2_20200723T030549_20200723T032036_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_GOPM_2_20200723T032728_20200723T032945_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.
Backscatter Quality CS_OFFL_SIR_GOPM_2_20200723T033023_20200723T033443_C001 Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality CS_OFFL_SIR_GOPM_2_20200723T033023_20200723T033443_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality set for one or more records. Ocean Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and Backscatter Quality and Backscatter Quality and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Backscatter Quality Flags have been decomposed by the ocean Altimeter Range and Ba
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range and Backscatter Quality ocog Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T033715_20200723T035124_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have a set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T035303_20200723T040523_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.
Ocean Altimater Dange, CSUA, SWILL. The Ocean Altimater Dange, CSUA, SWILL and Braining Page 1
CS_OFFL_SIR_GOPM_2_20200723T042956_20200723T043704_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T043826_20200723T044043_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T044704_20200723T050112_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T050518_20200723T051349_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have before one or more records.
CS_OFFL_SIR_GOPM_2_20200723T051707_20200723T053853_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T061633_20200723T064050_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T065651_20200723T065755_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T065933_20200723T072113_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records.

CS_OFFL_SIR_GOPM_2_20200723T072858_20200723T073158_C001 and Backscatter Quality, OCOG and the OCOG Altineter Range and Backscatter Quality set for one or more	imeter Range and Backscatter Quality Flags have been ercords.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been e records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
CS_OFFL_SIR_GOPM_2_20200723T082632_20200723T083227_C001 OCOG Altimeter Range Quality, OCOG In OCOG Altimeter Range Quality, OCOG In OCOG Altimeter Range Quality (or one or more recommendation).	ter Range and Backscatter Quality Flags have been set cords.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been e records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been e records.
CS_OFFL_SIR_GOPM_2_20200723T100539_20200723T101059_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter for one or more rec	ter Range and Backscatter Quality Flags have been set cords.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been e records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
CS_OFFL_SIR_GOPM_2_20200723T114549_20200723T114955_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter for one or more recommendation of the OCOG Altimeter Range Quality for one or more recommendation.	ter Range and Backscatter Quality Flags have been set cords.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been e records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
CS_OFFL_SIR_GOPM_2_20200723T131932_20200723T132440_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter for one or more rec	ter Range and Backscatter Quality Flags have been set cords.
CS_OFFL_SIR_GOPM_2_20200723T132500_20200723T132800_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter for one or more recommendation of the OCOG Altimeter Range Quality.	ter Range and Backscatter Quality Flags have been set cords.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been e records.
CS_OFFL_SIR_GOPM_2_20200723T140807_20200723T141022_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter for one or more recognition of the ocong state of the ocong Altimeter Range Quality and th	ter Range and Backscatter Quality Flags have been set cords.
CS_OFFL_SIR_GOPM_2_20200723T141022_20200723T141134_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter for one or more recommendation of the ocong Altimeter Range Quality.	ter Range and Backscatter Quality Flags have been set cords.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
	er Range, SSHA, SWH and Backscatter Quality Flags imeter Range and Backscatter Quality Flags have been a records.
CS_OFFL_SIR_GOPM_2_20200723T145832_20200723T150338_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter for one or more recognition of the ocong statement	ter Range and Backscatter Quality Flags have been set cords.

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPM_2_20200723T151316_20200723T152318_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20200723T152938_20200723T154455_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_20200723T160408_20200723T161923_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_20200723T162103_20200723T163443_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_20200723T163749_20200723T164249_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_20200723T164330_20200723T164434_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_20200723T165056_20200723T171038_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_20200723T171041_20200723T171315_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_20200723T175210_20200723T181306_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_20200723T181830_20200723T182206_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_20200723T182228_20200723T182540_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_20200723T182918_20200723T185619_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_20200723T192814_20200723T195311_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_20200723T195613_20200723T200121_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_20200723T200901_20200723T204213_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_20200723T205456_20200723T210137_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_20200723T210452_20200723T211230_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_20200723T212802_20200723T213226_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_20200723T213612_20200723T214154_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_20200723T214919_20200723T2222146_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_20200723T072113_20200723T072222_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_20200723T110217_20200723T110258_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_20200723T152318_20200723T152424_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_20200723T174508_20200723T174601_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_20200723T182222_20200723T182228_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_20200723T191950_20200723T192002_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPR_2_20200723T041623_20200723T041740_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200723T065803_20200723T065933_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200723T103955_20200723T104335_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200723T150338_20200723T150345_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200723T155147_20200723T155828_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20200723T164929_20200723T164931_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20200723T001126_20200723T001453_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_20200723T010651_20200723T010743_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_20200723T014603_20200723T014838_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_20200723T015032_20200723T015356_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_20200723T024547_20200723T024807_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_20200723T032126_20200723T032728_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_20200723T041537_20200723T041622_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_20200723T042433_20200723T042647_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_20200723T044310_20200723T044704_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_20200723T050330_20200723T050518_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_20200723T054034_20200723T054402_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_20200723T055950_20200723T060440_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_20200723T082234_20200723T082354_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_20200723T101059_20200723T101217_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_20200723T103318_20200723T103502_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_20200723T110127_20200723T110205_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_20200723T110357_20200723T110418_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_20200723T114109_20200723T114428_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_20200723T114956_20200723T115120_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_20200723T121300_20200723T121405_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_20200723T123021_20200723T123256_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_20200723T131753_20200723T131932_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_20200723T140640_20200723T140807_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_20200723T154525_20200723T154826_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_20200723T163603_20200723T163749_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_20200723T164434_20200723T165036_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_20200723T172615_20200723T173011_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_20200723T174639_20200723T175021_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_20200723T182207_20200723T182213_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_20200723T182541_20200723T182737_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_20200723T191950_20200723T192002_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_20200723T214356_20200723T214510_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_20200723T000124_20200723T000518_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_20200723T001453_20200723T001837_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_20200723T005448_20200723T010119_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_20200723T013904_20200723T014603_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_20200723T023347_20200723T024005_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_20200723T030336_20200723T030549_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_20200723T040857_20200723T040936_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_20200723T041450_20200723T041537_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_20200723T044043_20200723T044139_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_20200723T060510_20200723T060721_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_20200723T061218_20200723T061429_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_20200723T065412_20200723T065651_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	set for one or more records.
CS_OFFL_SIR_GOPR_2_20200723T073500_20200723T074014_C001	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_20200723T075142_20200723T075337_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_20200723T095813_20200723T100225_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_20200723T101217_20200723T101440_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_20200723T103955_20200723T104335_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_20200723T104543_20200723T104711_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_20200723T113741_20200723T114108_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_20200723T115121_20200723T115505_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_20200723T132941_20200723T133541_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_20200723T141232_20200723T141814_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_20200723T150338_20200723T150345_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_20200723T150757_20200723T151316_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_20200723T152724_20200723T152937_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_20200723T154455_20200723T154525_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_20200723T155147_20200723T155828_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_20200723T161923_20200723T162102_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_20200723T173606_20200723T173702_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_20200723T182737_20200723T182918_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_20200723T200626_20200723T200901_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_20200723T204416_20200723T204425_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_20200723T210403_20200723T210451_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_20200723T212258_20200723T212801_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_20200723T213226_20200723T213453_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_20200723T222453_20200723T223022_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.
10 Over14 Flams (4.11- 0.411- DLDM)		

L2 Quality Flags (1 Hz & 1Hz PLRM)

 $\label{lem:currently} \textbf{Currently, there are several common flags raised in the Level 2 products, which are summarised below.}$

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

144

58

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:

Ω

6.2 P2P Product Header Analysis

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

Number of products with errors:

_

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

Λ

6.4 P2P Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric 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: 28

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220200722T232111_20200723T001048_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_GOP_2_20200723T001048_20200723T010025_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_20200723T010025_20200723T015002_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_20200723T015002_20200723T023939_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) and 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_220200723T023939_20200723T032916_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20200723T032916_20200723T041853_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_220200723T041853_20200723T050830_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20200723T050830_20200723T055807_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_20200723T055807_20200723T064744_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) and 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_220200723T064744_20200723T073721_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_220200723T073721_20200723T082659_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) and 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_220200723T082659_20200723T091635_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_220200723T091635_20200723T100613_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_20200723T100613_20200723T105549_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_20200723T105549_20200723T114527_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_20200723T114527_20200723T123503_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Fauilibrium Long Period	Inere is an error with the MSS neight (solution 1) and 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_20200723T123503_20200723T132440_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_20200723T132440_20200723T141417_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_20200723T141417_20200723T150354_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_20200723T150354_20200723T155331_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_20200723T155331_20200723T164308_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_20200723T164308_20200723T173245_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_20200723T173245_20200723T182223_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_20200723T182223_20200723T191159_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_20200723T191159_20200723T200137_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_20200723T200137_20200723T205113_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_20200723T205113_20200723T214051_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_20200723T214051_20200723T223027_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

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220200723T023939_20200723T032916_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20200723T055807_20200723T064744_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220200723T141417_20200723T150354_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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

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

Number of products with errors:

P2P Quality Flags (20Hz PLRM)

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

Number of products with errors:

P2P Quality Flags (1 Hz & 1Hz PLRM)

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

Number of products with errors: 2

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors:

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:

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
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SIR_GOPM1B	147	147	4	143	0
SIR_GOPR1B	104	104	0	104	0
SIR_GOPN1B	104	104	1	103	0
SIR_GOPM_2	147	147	95	52	0
SIR_GOPR_2	104	104	33	71	0
SIR_GOPN_2	104	104	42	62	0
SIR_GOP_P2P	27	27	0	27	0

7.1 QCC Errors

Number of QCC reports with errors:

(

7.2 QCC Warnings

Number of QCC reports with warnings

2041

Tota	l number	of occ	urrences	of each	n warning

Total number of occurrences of each warming							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_GOPM1B	143	0	0	0	0	0	0
SIR_GOPM_2	0	40	39	2	36	0	34
SIR_GOPN1B	102	0	0	0	0	0	0
SIR_GOPN_2	0	9	29	3	25	31	19
SIR_GOPR1B	100	0	0	0	0	0	0
SIR_GOPR_2	0	35	37	2	28	25	19

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	1	32	0	0	0	0	28
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	1	0	0	24	0	34	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR GOPR 2	3	0	39	0	46	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	4	25	0	5	34
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	28	16	39	51	30	26
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	39	0	1	57	46	6	39

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_GOPM1B	0	0	1	0	0	0	
SIR_GOPM_2	0	4	1	0	0	0	
SIR_GOPN1B	0	0	0	0	39	1	
SIR_GOPN_2	29	13	0	2	0	0	
SIR_GOPR1B	0	0	0	0	104	4	
SIR_GOPR_2	46	3	0	0	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	13	27	27	6	26	16	26

Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_GOP_2_	3	17	26	24		27	15
	•	*	*	+			

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-
SIR_GOP_2_	23	27	18	15	27		

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter

SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0