

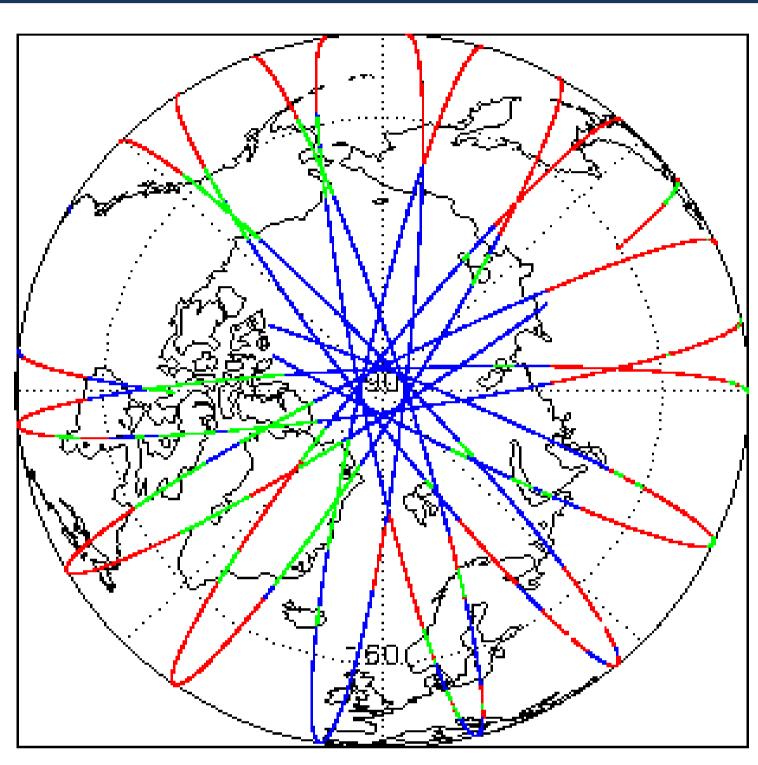
1. Overview

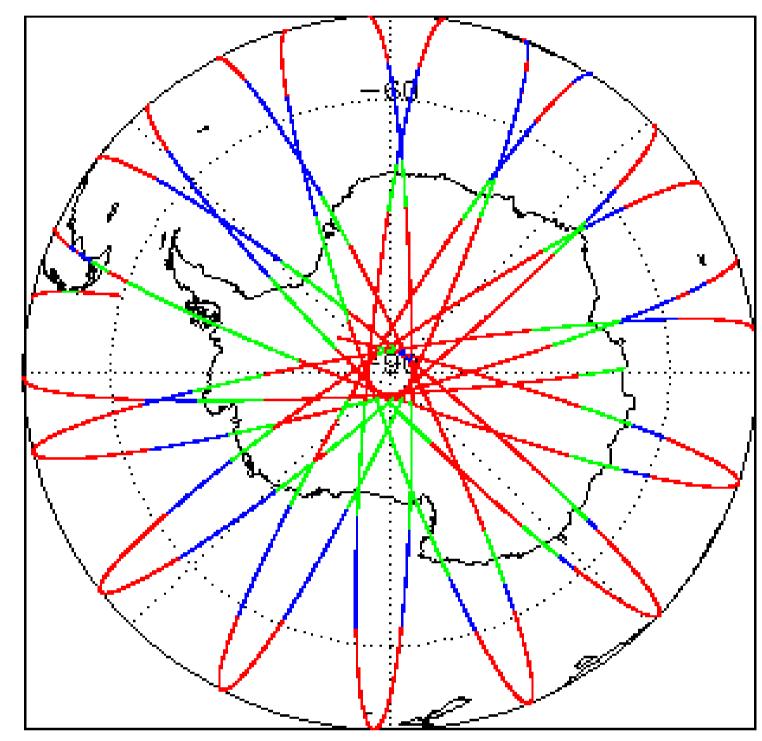
Report Production:	13-Jan-2021	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	

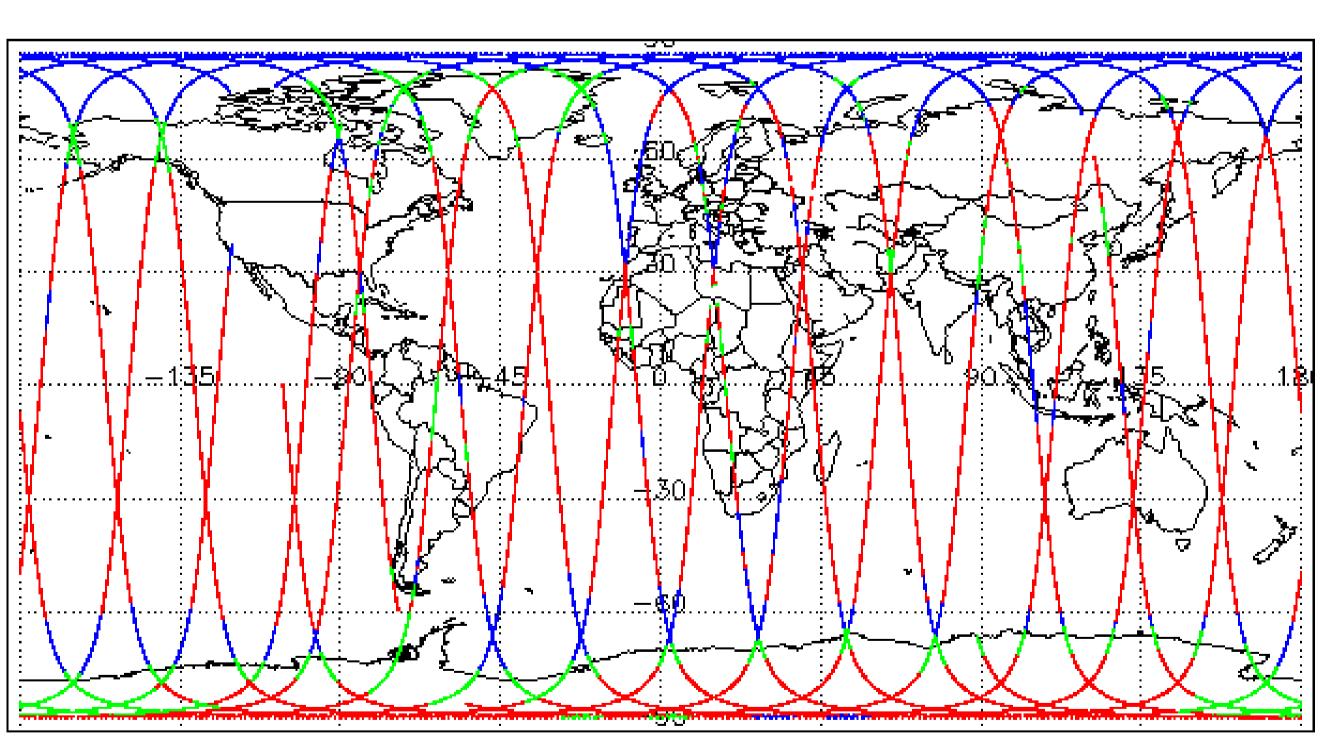
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	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

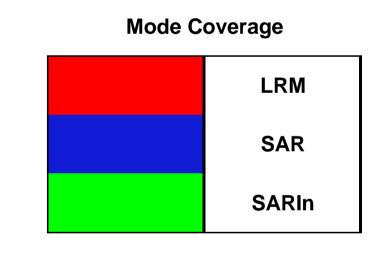
Mission / Ir	strument News
20-Nov-20	None None
21-Nov-20	None None
22-Nov-20	Nothing planned

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 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.

0

0

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

21

CS_OFFL_SIR_GOPMIB_20201121T030606_20201121T030853_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T081056_20201121T083044_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T0830255_20201121T083621_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T0830255_20201121T083621_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T01285_20201121T012931_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T012855_20201121T012931_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T062855_20201121T062853_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T062851_20201121T062853_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T06853_20201121T068853_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T04503_20201121T04808_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T04030_20201121T204204_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T212608_20201121T212721_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T212859_20201121T21218_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPMIB_20201121T035430_20201121T035843_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPRIB_20201121T044336_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPRIB_20201121T044356_20201121T044336_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_	Product	Test Failed	Description
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CS_OFFL_SIR_GOPN1B_20201121T204030_20201121T204204_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20201121T212608_20201121T212721_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20201121T212859_20201121T213128_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20201121T230531_20201121T230753_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T012712_20201121T012815_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T035430_20201121T035843_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T074855_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T0744836_20201121T044802_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20201121T094553_20201121T094808_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201121T212608_20201121T212721_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20201121T212859_20201121T213128_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20201121T230531_20201121T230753_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T012712_20201121T012815_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T035430_20201121T035843_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20201121T194713_20201121T195131_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201121T212859_20201121T213128_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPN1B_20201121T230531_20201121T230753_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T012712_20201121T012815_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T035430_20201121T035843_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T154136_20201121T154602_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20201121T204030_20201121T204204_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20201121T230531_20201121T230753_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T012712_20201121T012815_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T035430_20201121T035843_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20201121T212608_20201121T212721_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201121T012712_20201121T012815_C001 CS_OFFL_SIR_GOPR1B_20201121T035430_20201121T035843_C001 CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001 CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T0445739_C001 CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 CS_OFFL_SIR_GOPR1B_20201121T154136_20201121T154602_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20201121T212859_20201121T213128_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201121T035430_20201121T035843_C001 CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001 CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 CS_OFFL_SIR_GOPR1B_20201121T154136_20201121T154602_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPN1B_20201121T230531_20201121T230753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20201121T012712_20201121T012815_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20201121T035430_20201121T035843_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20201121T044202_20201121T044336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20201121T154136_20201121T154602_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20201121T044855_20201121T045739_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_GOPR1B_20201121T072607_20201121T073203_C001	Loss of Echo	The tracking echo is missing for one or more records
CC OFFI CID CODDAD 20204424T422000 20204424T422440 C004	CS_OFFL_SIR_GOPR1B_20201121T154136_20201121T154602_C001	Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_GOPR1B_20201121T182008_20201121T182148_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:

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20201121T030605_20201121T030853_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_20201121T012855_20201121T012931_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_20201121T022040_20201121T022251_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_20201121T035844_20201121T040200_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_20201121T053732_20201121T054052_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_20201121T054617_20201121T054742_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_20201121T062651_20201121T062953_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_20201121T072451_20201121T072607_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_20201121T080754_20201121T080853_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_20201121T090208_20201121T090418_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_20201121T094553_20201121T094808_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_20201121T103226_20201121T103412_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_20201121T112234_20201121T112634_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_20201121T122159_20201121T122359_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_20201121T161803_20201121T162030_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Ocean Tide (solution 2: FES) and the Non-Equilibroum Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20201121T171037_20201121T171203_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_20201121T171714_20201121T172019_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_20201121T185104_20201121T185402_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_20201121T185618_20201121T190138_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_20201121T194713_20201121T195131_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_20201121T203054_20201121T203329_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_20201121T212608_20201121T212721_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_20201121T212859_20201121T213128_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_20201121T220350_20201121T220452_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_20201121T220556_20201121T221152_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_20201121T230531_20201121T230753_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_20201121T234812_20201121T235004_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_20201121T013119_20201121T013629_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_20201121T025918_20201121T030118_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_20201121T031020_20201121T031823_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_20201121T044855_20201121T045739_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_20201121T062953_20201121T063747_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_20201121T080853_20201121T081436_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_20201121T094808_20201121T095445_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_20201121T112634_20201121T113156_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_20201121T130457_20201121T131459_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_20201121T144215_20201121T144950_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_20201121T150029_20201121T150114_C001	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_20201121T162111_20201121T162807_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_20201121T162807_20201121T163100_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_20201121T175942_20201121T180707_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_20201121T180707_20201121T180928_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_20201121T194139_20201121T194602_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_20201121T194602_20201121T194713_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_20201121T211935_20201121T212303_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_20201121T212303_20201121T212608_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_20201121T225923_20201121T230531_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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:

83

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20201121T001100_20201121T003648_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_20201121T004330_20201121T004820_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_20201121T005455_20201121T011718_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_20201121T014955_20201121T021446_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_20201121T022251_20201121T022849_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_20201121T023206_20201121T025840_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_20201121T032134_20201121T035429_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_20201121T040200_20201121T040721_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_20201121T041357_20201121T041519_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_20201121T044505_20201121T044855_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_20201121T050053_20201121T051001_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_20201121T051246_20201121T053415_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_20201121T054210_20201121T054617_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_20201121T055153_20201121T060122_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_20201121T060310_20201121T060914_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_20201121T061056_20201121T061543_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_20201121T063748_20201121T071257_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_20201121T071559_20201121T072102_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_20201121T072123_20201121T072430_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_20201121T073203_20201121T080319_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_20201121T080434_20201121T080620_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_20201121T081850_20201121T083044_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_20201121T083255_20201121T083621_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_20201121T083624_20201121T085242_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_20201121T085453_20201121T090001_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_20201121T090946_20201121T091940_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_20201121T092558_20201121T094146_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.

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Sept. Sept. (1941) 1972 2 (2001) 1217 1982 2 (2001) 1217 1982 2 (2001) 1217 1983 2 (2001)	CS_OFFL_SIR_GOPM_2_20201121T100404_20201121T101545_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Comparison of Course Cours	CS_OFFL_SIR_GOPM_2_20201121T101725_20201121T103101_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202**121T103*C_CD0*** CS_OFFL_SR_GOPH_2_202**121T103*C_202*** CS_OFFL_SR_GOPH_2_202**121T103*C_202*** CS_OFFL_SR_GOPH_2_202**121T103*C_202*** CS_OFFL_SR_GOPH_2_202**121T103*C_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202*** CS_OFFL_SR_GOPH_2_202** CS_	CS_OFFL_SIR_GOPM_2_20201121T103412_20201121T103913_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Set Personales Coulty, 2002-121110315 (2001-12111032) (2001 Set Personales Coulty, 2001 (2011-12111032) (2001 Set Personales Coulty, 2001 (2011-12111032) (200	CS_OFFL_SIR_GOPM_2_20201121T104751_20201121T105003_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OPPL_SR_COPPL_2;2021121T11097_2021121T11097_2021 CS_OPPL_SR_COPPL_2;2021121T11098_2;2021121T11097_2021 CS_OPPL_SR_COPPL_2;2021121T11098_2;2021121T12097_2021 CS_OPPL_SR_COPPL_2;2021121T11098_2;2021121T12097_2021 CS_OPPL_SR_COPPL_2;202112T111098_2;202112T12097_2021 CS_OPPL_SR_COPPL_2;202112T112193_2;202112T12097_2021 CS_OPPL_SR_COPPL_2;202112T12193_2;202112T12097_2021 CS_OPPL_SR_COPPL_2;202112T12193_2;202112T12097_2021 CS_OPPL_SR_COPPL_2;202112T12193_2;202112T12097_2021 CS_OPPL_SR_COPPL_2;202112T12294_2;202112T12097_2021 CS_OPPL_SR_COPPL_2;202112T12994_2;202112T12097_2021 CS_OPPL_SR_COPPL_2;202112T12994_2;202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T132994_2;202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T132994_2;202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T132994_2;202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T132994_2;202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T13097_202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T13097_202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T13097_202112T13097_2021 CS_OPPL_SR_COPPL_2;202112T13097_202112T13097_2021 CS_OPPL_SR_COPPL_2;2022112T13097_202112T13097_2021 CS_OPPL_SR_COPPL_2;2022112T13097_202112T13097_	CS_OFFL_SIR_GOPM_2_20201121T105105_20201121T110307_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Death Authority County CS_OFFL_SR_COPM_2_2000*121**12452_2000*121**2452_2000*121	CS_OFFL_SIR_GOPM_2_20201121T110309_20201121T110937_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
And Backstanter Quality, OCOG Altimeter Range and Backstanter Quality Flags have been for eve or more received. CS_OFFL_SR_GOPM_2_2020112*T12462_2009*12*T112457_C001 CS_OFFL_SR_GOPM_2_2020112*T12558_2009*12*T112457_C001 CS_OFFL_SR_GOPM_2_2020112*T12256_2020*12*T12459_C001 CS_OFFL_SR_GOPM_2_2020112*T12256_2020*12*T12459_C001 CS_OFFL_SR_GOPM_2_2020112*T12256_2020*12*T12459_C001 CS_OFFL_SR_GOPM_2_2020112*T12256_2020*12*T12459_C001 CS_OFFL_SR_GOPM_2_2020112*T12256_2020*12*T12459_C001 CS_OFFL_SR_GOPM_2_2020112*T13250_2020*12*T13251_C001 CS_OFFL_SR_GOPM_2_2020112*T13250_2020*12*T13251_C001 CS_OFFL_SR_GOPM_2_2020112*T13250_2020*12*T13251_C001 CS_OFFL_SR_GOPM_2_2020112*T13250_2020*12*T13251_C001 CS_OFFL_SR_GOPM_2_2020112*T13250_2020*12*T13251_C001 CS_OFFL_SR_GOPM_2_2020112*T13250_2020*12*T13251_C001 CS_OFFL_SR_GOPM_2_2020112*T13250_2020*12*T13251_C001 CS_OFFL_SR_GOPM_2_2020112*T13255_2020*12*T13255_C001 CS_OFFL_SR_GOPM_2_2020112*T13255_2020*12*T13255_C001 CS_OFFL_SR_GOPM_2_2020112*T13255_2020*12*T14525_C001 CS_OFFL_SR_GOPM_2_2020112*T13555_2020*12*T14525_C001 CS_OFFL_SR_GOPM_2_2020112*T13553_2020*12*T14525_C001 CS_OFFL_SR_GOPM_2_2020112*T13553_C000*12*T14525_C001 CS_OFFL_SR_GOPM_2_2020112*T13553_C000*12*T14525_C001 CS_OFFL_SR_GOPM_2_2020112*T14525_C000*12*T14525_C001 CS_OFFL_SR_GOPM_2_2020112*T14525_C000*12*	CS_OFFL_SIR_GOPM_2_20201121T113936_20201121T113941_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscrater Quality CS OFFL SR GOPM 2 20201121T121533 20201121T122158 COO1 CS OFFL SR GOPM 2 20201121T122269 20201121T123314_COO1 CS OFFL SR GOPM 2 20201121T132269 20201121T132314_COO1 CS OFFL SR GOPM 2 20201121T13226 20201121T132314_COO1 CS OFFL SR GOPM 2 20201121T133314_COO1 CS OFFL SR GOPM 2 20201121T134537 20201121T140925 COO1 CS OFFL SR GOPM 2 20201121T14537 20201121T140925 COO1 CS OFFL SR GOPM 2 20201121T145458 20201121T140925 COO1 CS OFFL SR GOPM 2 20201121T154459 20201121T154380 COO1 CS OFFL SR	CS_OFFL_SIR_GOPM_2_20201121T114824_20201121T120946_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Sackasster Quality CS_OFFL_SIR_GOPM_2_20201121T122546_20201121T124337_C001 CS_OFFL_SIR_GOPM_2_20201121T132204_20201121T132314_C001 CS_OFFL_SIR_GOPM_2_20201121T132204_20201121T132314_C001 CS_OFFL_SIR_GOPM_2_20201121T132204_20201121T132314_C001 CS_OFFL_SIR_GOPM_2_20201121T132204_20201121T132314_C001 CS_OFFL_SIR_GOPM_2_20201121T132315_20201121T132314_C001 CS_OFFL_SIR_GOPM_2_20201121T132315_20201121T135746_C001 CS_OFFL_SIR_GOPM_2_20201121T132315_20201121T135746_C001 CS_OFFL_SIR_GOPM_2_20201121T135335_20201121T140120_C001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140120_C001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140120_C001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140120_C001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140120_C001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140120_C001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140120_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T15010_C001 CS_OFFL_SIR_GOPM_2_20201121T15010_C001121T15010_C001 CS_OFFL_SIR_GOPM_2_	CS_OFFL_SIR_GOPM_2_20201121T121452_20201121T121831_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Basscater Quality, OCOS Allimeter Range and Basscater Quality and the OCOS Allimeter Range and Basscater Quality Flags have been for one or more records. CS_OFFL_SIR_GOPM_2_20201121T132200_20201121T132314_C0001 CS_OFFL_SIR_GOPM_2_20201121T132201_20201121T134012_C0001 CS_OFFL_SIR_GOPM_2_20201121T132514_20201121T134012_C0001 CS_OFFL_SIR_GOPM_2_20201121T132514_20201121T134012_C0001 CS_OFFL_SIR_GOPM_2_20201121T132514_20201121T134012_C0001 CS_OFFL_SIR_GOPM_2_20201121T13525_20201121T140120_C0001 CS_OFFL_SIR_GOPM_2_20201121T13525_20201121T140120_C0001 CS_OFFL_SIR_GOPM_2_20201121T13525_20201121T140120_C0001 CS_OFFL_SIR_GOPM_2_20201121T13525_20201121T140120_C0001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140520_C0001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140520_C0001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140520_C0001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140520_C0001 CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T140520_C0001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T140520_C0001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T140520_C0001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 COCOS Allimeter Range Cuality, CCCG CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 COCOS Allimeter Range Cuality, CCCG CS_OFFL_SIR_GOPM_2_20201121T150115_2020_C0001 Allimeter Range Cuality, CCCG CS_OFFL_SIR_GOPM_2_20201121T150115_2020_C0001 Allimeter Range Cuality, CCCG CS_OFFL_SIR_GOPM_2_20201121T150105_20201121T150200_C0001 CS_OFFL_SIR_GOPM_2_20201121T150105_20201121T150200_C0001 CS_OFFL_SIR_GOPM_2_20201121T150105_20201121T150200_C0001 CS_OFFL_SIR_GOPM_2_20201121T150000_20201121T150000_C0001 CS_OFFL_SIR_GOPM_2_20201121T150000_20201121T150000_C0001 CS_OFFL_SIR_GOPM_2_20201121T150000_20201121T150000_C0001 CS_OFFL_SIR_GOPM_2_20201121T150000_20201121T150000_C0001 CS_OFFL_SIR_GOPM_2_20201121T150000_20201121T150000_C0001 CS_OFFL_SIR_GOPM_2_20201121T150000_20201121T1500000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20201121T121853_20201121T122159_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS OFFL SIR GOPM 2 20201121T132514 20201121T134912 CO01 CS OFFL SIR GOPM 2 20201121T132514 20201121T134912 CO01 CS OFFL SIR GOPM 2 20201121T135254 20201121T134912 CO01 CS OFFL SIR GOPM 2 20201121T135254 20201121T135746_CO01 CS OFFL SIR GOPM 2 20201121T13573 20201121T135746_CO01 CS OFFL SIR GOPM 2 20201121T13573 20201121T140120_CO01 CS OFFL SIR GOPM 2 20201121T140537 20201121T140500 CS OFFL SIR GOPM 2 20201121T140537 2020112T150741_CO01 CS OFFL SIR GOPM 2 20201121T145445_20201121T145759_CO01 CS OFFL SIR GOPM 2 20201121T145445_20201121T145759_CO01 CS OFFL SIR GOPM 2 20201121T150115_20201121T150741_CO01 CS OFFL SIR GOPM 2 20201121T150100 CS OFFL	CS_OFFL_SIR_GOPM_2_20201121T122546_20201121T124337_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Set for one or more records. CS OFFL SIR GOPM 2 20201121T135735 20201121T135746 C001 CS OFFL SIR GOPM 2 20201121T135753 20201121T140120 C001 CS OFFL SIR GOPM 2 20201121T140537 20201121T140120 C001 CS OFFL SIR GOPM 2 20201121T145445 20201121T145759 C001 CS OFFL SIR GOPM 2 20201121T145445 20201121T145759 C001 CS OFFL SIR GOPM 2 20201121T150115 20201121T150741 C001 CS OFFL SIR GOPM 2 20201121T150115 20201121T150741 C001 CS OFFL SIR GOPM 2 20201121T152425 20201121T152810 C001 CS OFFL SIR GOPM 2 20201121T152430 20201121T153820 C001 CS OFFL SIR GOPM 2 20201121T153236 20201121T153820 C001 CS OFFL SIR GOPM 2 20201121T153236 20201121T153820 C001 CS OFFL SIR GOPM 2 20201121T153300 20201121T153820 C001 CS OFFL SIR GOPM 2 20201121T153804 20201121T153820 C001 CS OFFL S	CS_OFFL_SIR_GOPM_2_20201121T132200_20201121T132314_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS OFFL SIR GOPM 2 20201121T135753 20201121T140120 C001 OCGA Altimeter Range Quality, OCGB Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been for one or more records. CS OFFL SIR GOPM 2 20201121T152425 20201121T152810 C001 CS OFFL SIR GOPM 2 20201121T152425 20201121T152820_C001 CS OFFL SIR GOPM 2 20201121T153236_20201121T153820_C001 CS OFFL SIR GOPM 2 20201121T153236_20201121T153820_C001 CS OFFL SIR GOPM 2 20201121T153300 20201121T163300 C001 CS OFFL SIR GOPM 2 20201121T163300 20201121T163300 C001 CS OFFL SIR GOPM 2 20201121T163300 20201121T163300 C001 CS OFFL SIR GOPM 2 20201121T163300 20201121T163820_C001 CS OFFL SIR GOPM 2 20201121T163300 20201121T163820_C001 CS OFFL SIR GOPM 2 20201121T163300 20201121T163820_C001 CS OFFL SIR GOPM 2 20201121T163654_20201121T163820_C001 CS OFFL SIR GOPM 2 20201121T163654_20201121T163820_C001 CS OFFL SIR GOPM 2 20201121T163654_20201121T163800_C001 CS OFFL SIR GOPM 3 20201121T163654_20201121T16380	CS_OFFL_SIR_GOPM_2_20201121T132514_20201121T134912_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T143825_C001 CS_OFFL_SIR_GOPM_2_20201121T145445_20201121T145759_C001 CS_OFFL_SIR_GOPM_2_20201121T145445_20201121T145759_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T152810_C001 CS_OFFL_SIR_GOPM_2_20201121T152425_20201121T152810_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T152810_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T161801_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T161801_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T163800_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T163800_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T163800_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T163800_20201121T163800_C001 CCOGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCOGG Altimeter Range Altimeter Range and Backscatt	CS_OFFL_SIR_GOPM_2_20201121T135235_20201121T135746_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_GOPM_2_20201121T145445_20201121T145759_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 CS_OFFL_SIR_GOPM_2_20201121T152425_20201121T152810_C001 CS_OFFL_SIR_GOPM_2_20201121T152425_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T163809_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163309_C0	CS_OFFL_SIR_GOPM_2_20201121T135753_20201121T140120_C001	_	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality CS_OFFL_SIR_GOPM_2_20201121T150715_20201121T150741_C001 Backscatter Quality CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 CS_OFFL_SIR_GOPM_2_20201121T152425_20201121T152810_C001 CS_OFFL_SIR_GOPM_2_20201121T152425_20201121T152810_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T163800_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CCGG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. CCCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. CCCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. CCCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. CCCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. CCCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. CCCGA Altimeter Range, SSHA, SWH The Ocean Altimeter Range and Backscatter Quality Flags have been for one or more records. CCCGA Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_GOPM_2_20201121T140537_20201121T143825_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_GOPM_2_20201121T152425_20201121T152810_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T161801_C001 CS_OFFL_SIR_GOPM_2_20201121T164602_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_C001121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_C001121T163300_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_C001121T163300_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. CCS_OFFL_SIR_GOPM_2_20201121T163300_C001121T163300_C001 CCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been for one or more records. CCS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CCCG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. CCCG Altimeter Range Altimeter Range and Backscatter Quality Flags have been for one or more records. CCCG Altimeter Range Altimeter Range and Backscatter Quality Flags have been for one or more records. CCCG Altimeter Range Altimeter Range and Backscatter Quality Flags have been for one or more records. CCCG Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags have been for one or more records. CCCG Altimeter Range Altimeter	CS_OFFL_SIR_GOPM_2_20201121T145445_20201121T145759_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T161801_C001 CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T161801_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C0	CS_OFFL_SIR_GOPM_2_20201121T150115_20201121T150741_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 DCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 DCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_GOPM_2_20201121T152425_20201121T152810_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T161801_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_3_20201121T163654_20201121T163820_C001 CS_OFFL_SIR_GOPM_3_20201121T163820_C001	CS_OFFL_SIR_GOPM_2_20201121T153236_20201121T153820_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001 Backscatter Quality Gor one or more records. CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001 DCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags.	CS_OFFL_SIR_GOPM_2_20201121T154602_20201121T161801_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Backscatter Quality Group or more records.	CS_OFFL_SIR_GOPM_2_20201121T163300_20201121T163309_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_GOPM_2_20201121T163654_20201121T163820_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_GOPM_2_20201121T164820_20201121T170629_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20201121T171203_20201121T171714_C001 OCOG Altimeter Range Quality, OCOG for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.	CS_OFFL_SIR_GOPM_2_20201121T171203_20201121T171714_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	CS_OFFL_SIR_GOPM_2_20201121T172406_20201121T175817_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20201121T182710_20201121T184622_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.
- US OFFI SIK GORIVI / ZUZUTIZITIKSAUZ ZUZUTIZITIKSALA GUU	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_20201121T190351_20201121T193715_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_20201121T195204_20201121T201053_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_20201121T201130_20201121T202442_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_20201121T203657_20201121T204030_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_20201121T204252_20201121T205751_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_20201121T205953_20201121T210914_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_20201121T211411_20201121T211418_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_20201121T211420_20201121T211445_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_20201121T213128_20201121T214832_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_20201121T220054_20201121T220201_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_20201121T221152_20201121T221453_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_20201121T221459_20201121T221932_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_20201121T222229_20201121T223621_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_20201121T231156_20201121T231326_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_20201121T231450_20201121T232201_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_20201121T232323_20201121T234630_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_20201121T235004_20201121T235830_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_20201121T012815_20201121T012831_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_20201121T031954_20201121T032134_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_20201121T044130_20201121T044200_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_20201121T091940_20201121T092045_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_20201121T143825_20201121T144215_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_20201121T220350_20201121T220452_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_20201121T060123_20201121T060310_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_20201121T154136_20201121T154602_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_20201121T161801_20201121T161803_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_20201121T181920_20201121T182002_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_20201121T211935_20201121T212303_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: 85		
Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20201121T004820_20201121T005034_C00	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_20201121T011718_20201121T011844_C00	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_20201121T022849_20201121T023018_C00	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_20201121T035844_20201121T040200_C00	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_20201121T040721_20201121T040840_C007	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_20201121T042156_20201121T042301_C00	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_20201121T042636_20201121T042743_C00	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_20201121T054617_20201121T054742_C00	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_20201121T060914_20201121T061056_C00	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_20201121T062651_20201121T062953_C00^	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_20201121T071407_20201121T071559_C00	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_20201121T072451_20201121T072607_C00	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_20201121T080319_20201121T080433_C007	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_20201121T080754_20201121T080853_C00	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_20201121T091940_20201121T092045_C00	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_20201121T094146_20201121T094439_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_20201121T094553_20201121T094808_C00	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_20201121T112234_20201121T112634_C00	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_20201121T113156_20201121T113226_C00	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_20201121T121218_20201121T121452_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_20201121T121831_20201121T121838_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_20201121T132314_20201121T132446_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_20201121T140121_20201121T140248_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_20201121T143825_20201121T144215_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_20201121T153112_20201121T153236_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_20201121T154022_20201121T154136_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_20201121T161803_20201121T162030_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_20201121T162033_20201121T162111_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_20201121T171714_20201121T172019_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_20201121T182630_20201121T182710_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_20201121T185618_20201121T190138_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_20201121T194043_20201121T194139_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_20201121T203527_20201121T203657_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_20201121T210914_20201121T211242_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_20201121T212859_20201121T213128_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_20201121T214832_20201121T215313_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_20201121T220350_20201121T220452_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_20201121T220556_20201121T221152_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_20201121T221932_20201121T222117_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_20201121T224619_20201121T224830_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_20201121T000106_20201121T000313_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_20201121T005034_20201121T005300_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_20201121T012931_20201121T013053_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_20201121T013119_20201121T013629_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_20201121T021446_20201121T021852_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_20201121T030450_20201121T030605_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_20201121T031020_20201121T031823_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_20201121T035430_20201121T035843_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_20201121T040841_20201121T041233_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_20201121T044855_20201121T045739_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_20201121T053415_20201121T053732_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH 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_20201121T054742_20201121T055153_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH 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_20201121T062953_20201121T063747_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Bange, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH 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_20201121T072607_20201121T073203_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Bange, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH 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_20201121T080853_20201121T081436_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Bange, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH 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_20201121T085243_20201121T085312_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_20201121T090418_20201121T090946_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_20201121T092345_20201121T092558_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_20201121T094808_20201121T095445_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_20201121T103101_20201121T103226_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_20201121T112011_20201121T112234_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_20201121T112634_20201121T113156_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_20201121T130457_20201121T131459_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_20201121T140248_20201121T140537_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_20201121T144215_20201121T144950_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_20201121T154136_20201121T154602_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_20201121T162111_20201121T162807_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_20201121T162807_20201121T163100_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_20201121T163310_20201121T163654_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_20201121T170629_20201121T171037_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_20201121T172019_20201121T172406_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_20201121T180707_20201121T180928_C001 CS_OFFL_SIR_GOPR_2_20201121T181134_20201121T181901_C001 CS_OFFL_SIR_GOPR_2_20201121T181134_20201121T185104_C001 CS_OFFL_SIR_GOPR_2_20201121T184623_20201121T185104_C001 CS_OFFL_SIR_GOPR_2_20201121T184623_20201121T185104_C001 CS_OFFL_SIR_GOPR_2_20201121T184623_20201121T185104_C001 CS_OFFL_SIR_GOPR_2_20201121T190138_20201121T190350_C001 CS_OFFL_SIR_GOPR_2_20201121T190138_20201121T190350_
CS_OFFL_SIR_GOPR_2_20201121T181134_20201121T18190T_C001 OCOG Backscatter Quality OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality
CS_OFFL_SIR_GOPR_2_20201121T184623_20201121T185104_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backsc
CS_OFFL_SIR_GOPR_2_20201121T190138_20201121T190350_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Plags Altimeter Range and Backscatter Quality Plags
FLNIVI
CS_OFFL_SIR_GOPR_2_20201121T193959_20201121T194043_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201121T202442_20201121T203054_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 between the ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags are for one or more records.
CS_OFFL_SIR_GOPR_2_20201121T204205_20201121T204252_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_20201121T211935_20201121T212303_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 betor one or more records.
CS_OFFL_SIR_GOPR_2_20201121T220201_20201121T220222_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201121T223622_20201121T224243_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.
CS_OFFL_SIR_GOPR_2_20201121T224243_20201121T224510_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20201121T225923_20201121T230531_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags between Set for one or more records.
CS_OFFL_SIR_GOPR_2_20201121T230753_20201121T230818_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range 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 & 1Hz PLRM)

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

0

0

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors: 188

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: 52

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: 142

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors: 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.

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220201121T004359_20201121T013335_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_220201121T013335_20201121T022314_C001	Iviean Sea Surrace (1), Iviean Dynamic Topography (1), Total Geocentric Ocean Tide (FFS) Non-Equilibrium Long Period	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_220201121T022314_20201121T031250_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_220201121T031250_20201121T040229_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_220201121T040229_20201121T045204_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_220201121T045204_20201121T054143_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_220201121T054143_20201121T063119_C001	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	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_220201121T063119_20201121T072058_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_220201121T072058_20201121T081033_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_220201121T081033_20201121T090013_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_220201121T090013_20201121T094948_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_220201121T094948_20201121T103927_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_220201121T103927_20201121T112903_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_220201121T112903_20201121T121842_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_220201121T121842_20201121T130818_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_220201121T130818_20201121T135757_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_220201121T135757_20201121T144732_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_220201121T144732_20201121T153711_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_220201121T153711_20201121T162647_C001		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_220201121T162647_20201121T171626_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_220201121T171626_20201121T180602_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	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_220201121T180602_20201121T185541_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_220201121T185541_20201121T194516_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_220201121T194516_20201121T203455_C001	Iviean Sea Surrace (1), Iviean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_220201121T203455_20201121T212431_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_220201121T212431_20201121T221410_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_220201121T221410_20201121T230345_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_220201121T230345_20201121T235325_C002	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

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

0

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:

30

29

30

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:

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:

25

30

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
SIR_GOPM1B	189	189	5	184	0
SIR_GOPR1B	107	107	0	107	0
SIR_GOPN1B	105	105	1	104	0
SIR_GOPM_2	189	189	138	51	0
SIR_GOPR_2	107	107	36	70	1
SIR_GOPN_2	105	105	42	63	0
SIR GOP P2P	29	29	0	28	1

7.1 QCC Errors

Number of QCC reports with errors:

2

Total number of occurrences of each error

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

est Description Key:								
Abbreviation	Test name	Details						
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7						
RL	RangeLatitude_6	#N/A						
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7						
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7						
RL	RangeLongitude_6	#N/A						
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7						

7.2 QCC Warnings

Number of QCC reports with warnings

 rotal number of occurrences of each warning								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	
SIR_GOPM1B	184	0	0	0	0	0	0	
SIR_GOPM_2	0	0	34	36	0	40	0	
SIR_GOPN1B	104	0	0	0	0	0	0	
SIR_GOPN_2	0	0	9	36	6	29	36	
SIR_GOPR1B	106	0	0	0	0	0	0	
SIR GOPR 2	0	1	38	48	0	33	26	

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	32	27	0	0	0	0	23
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	21	0	0	24	0	35	0
SIR_GOPR1B	0	0	0	0	0	0	0
SIR_GOPR_2	11	0	51	0	55	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_GOPM1B	0	0	0	0	0	0	0
SIR_GOPM_2	0	0	7	21	0	3	30
SIR_GOPN1B	0	0	0	0	0	0	0
SIR_GOPN_2	0	30	16	47	53	31	33

	SIR_GOPR1B	0	0	0	0	0	0	0
	SIR_GOPR_2	51	0	3	63	43	14	38
_		-		•	•	•	•	•
	Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
Ī	SIR_GOPM1B	0	0	0	0	0	4	
	SIR_GOPM_2	0	1	0	0	0	0	
	SIR_GOPN1B	0	0	0	0	44	1	
	SIR_GOPN_2	30	15	1	1	0	0	
	SIR_GOPR1B	0	0	0	0	107	6	
	SIR GOPR 2	49	1	0	5	0	0	

Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_GOP_2_	13	29	29	6	29	16	28

	Product Type	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
	SIR_GOP_2_	17	29	25	17	29	17	25
_			,					
	Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	-	-	-
	SIR_GOP_2_	29	18	14	29			

Test Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
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	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				
	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	between -70 and 70 degrees The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes				
NCDF RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	between -70 and 70 degrees The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
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: