

17/06/2019





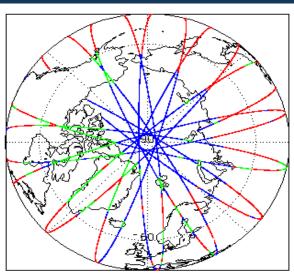
1. Overview

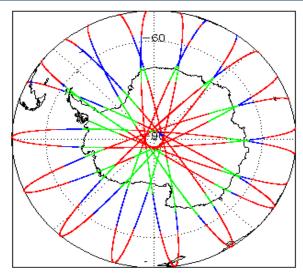
Report Production:	17-Jul-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

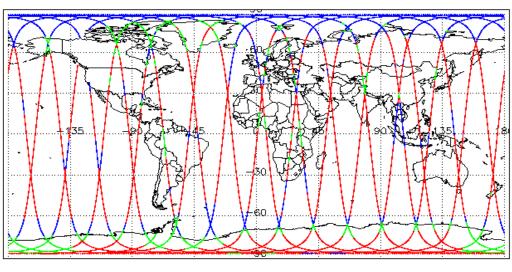
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

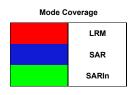
Mission / Instrument News		
16-Jun-2019	None	
17-Jun-2019	None	
18-Jun-2019	Nothing planned	

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:

Λ

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

Ω

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:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20190617T024216_20190617T024618_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20190617T033115_20190617T040006_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

47

Product	Test Failed	Description
CS_OFFL_SIR_GOPN1B_20190617T005553_20190617T005813_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T023525_20190617T024007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T054551_20190617T054635_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T054821_20190617T054911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T090828_20190617T090844_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T104140_20190617T104232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T104234_20190617T104556_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T122222_20190617T122502_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T122504_20190617T122647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190617T230549_20190617T231202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190617T010126_20190617T010346_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190617T051516_20190617T052025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190617T072658_20190617T072832_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190617T081252_20190617T081453_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190617T102325_20190617T102449_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190617T122024_20190617T122128_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190617T172124_20190617T173101_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:

0

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

c

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.

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Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190617T022633_20190617T022704_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20190617T022704_20190617T022708_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20190617T173101_20190617T173329_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_20190617T005553_20190617T005813_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T005854_20190617T010036_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20190617T013836_20190617T014023_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T023525_20190617T024007_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T031814_20190617T031950_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_20190617T045800_20190617T050149_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T053700_20190617T053832_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_20190617T054821_20190617T054911_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_20190617T063738_20190617T064053_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T064606_20190617T064726_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_20190617T072832_20190617T072910_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190617T090415_20190617T090638_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20190617T090828_20190617T090844_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T104234_20190617T104556_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography height (solution 1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_GOPN_2_20190617T104635_20190617T104754_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T114045_20190617T114322_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_20190617T122222_20190617T122502_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_20190617T122504_20190617T122647_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_20190617T131134_20190617T131330_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20190617T131958_20190617T132324_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190617T140119_20190617T140509_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190617T145101_20190617T145327_C001	GPD Wet Tropospheric Correction	There is an error with the GPD Wet Tropospheric correction for one or more records
CS_OFFL_SIR_GOPN_2_20190617T150104_20190617T150235_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_20190617T171801_20190617T171922_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

Comp. ps. Comb. 2, 26100017125010 Comb. 1960017105010 Comb.	CS OFFL SIR GOPN 2 20190617T181010 20190617T181135 C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one
Co., OFFL., BIRL, COMPL., 20100477164049, 20100477164019, 2010		Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
Main Box Surface (1), Near Dynamic Topography (1) On File Sin Gorne 2, 20160617129082, 20100171190000, CO10 On File Sin Gorne 2, 20160617129082, 2010017120000, CO10 On File Sin Gorne 2, 20160617120082, 2010017120000, CO10 On File Sin Gorne 2, 20160617120082, 2010017120000, CO10 On File Sin Gorne 2, 20160617120083, 2010017120000, CO10 Main Box Surface (1), Near Dynamic Topography (1)			There is an error with the Mean Dynamic Topography (solution 1) for one
Copper_Bit_Copper_2_201006177213333_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_201006177213330_20100617723300_2010061772330		Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
S. OFFL. SR, DOPR. 2. 201906177322560, 201906177022500. COID Mann See Surface (1), Mann Dynamic Topography (2). Mann See Surface (1), Mann Dynamic Topography (3). Mann See Surface (1), Mann Dynamic Topography (4). Mann See			, , , , ,
15th (2017)		Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
Image: Company (1) Image: Company (2) Image: Company (3) Image: Company (4)		Tide (GOT)	(solution 1: GOT) for one or more records
Topography (1) Topography (2) Topography (2) Topography (2) Topography (3) Topography (4) Topogr	CS_OFFL_SIR_GOPN_2_20190617T230549_20190617T231202_C001	Topography (1)	Topography height (solution 1) for one or more records
CS_OFFL_SR_COPR_2_20190817T02311_20190817T023325_C001 Mean Spanning Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1) These is an error with the MSS height (publics) 1) and the Mean Dynamic Topography (1)	CS_OFFL_SIR_GOPR_2_20190617T004950_20190617T005553_C001		
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Topography (1) CS_OFFL_SIR_GOPR_2_201906171072910_20190617101811_CO01 Means Sea Surface (1), Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_GOPR_2_201906171072910_20190617701816_CO01 CS_OFFL_SIR_GOPR_2_20190617710812_20190617710815_CO01 CS_OFFL_SIR_GOPR_2_20190617710872_20190617710820_20190617710810_CO01 CS_OFFL_SIR_GOPR_2_20190617710808_20190617710804_CO01 CS_OFFL_SIR_GOPR_2_20190617712848_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712848_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712848_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712848_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712848_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712848_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712820_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712820_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_20190617712820_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_201906177172820_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_201906177172820_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_201906177172820_20190617710805_CO01 CS_OFFL_SIR_GOPR_2_201906177172820_20190617710807_CO01 Means Sea Sufface (1), Mean Dynamic Topography inchit (colution 1) and the Mean Dyn	CS_OFFL_SIR_GOPR_2_20190617T040800_20190617T041607_C001		
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GS_OFFL_SIR_GOPR_2_20190617T140509_20190617T14018_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_GOPR_2_20190617T154201_20190617T155054_C001 CS_OFFL_SIR_GOPR_2_20190617T172124_20190617T173101_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height	CS_OFFL_SIR_GOPR_2_20190617T122648_20190617T123357_C001		
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CS_OFFL_SIR_GOPR_2_20190617T190649_20190617T190649_C001 CS_OFFL_SIR_GOPR_2_20190617T190649_20190617T190649_C001 CS_OFFL_SIR_GOPR_2_20190617T190649_20190617T19069_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the MSS height (solution 1) and the MSS height (solution 1) and the Total Geocentric Ocean Tide heigh	CS_OFFL_SIR_GOPR_2_20190617T172124_20190617T173101_C001		
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CS_OFFL_SIR_GOPR_2_20190617T221822_20190617T222434_C001 CS_OFFL_SIR_GOPR_2_20190617T222434_20190617T222434_C001 CS_OFFL_SIR_GOPR_2_20190617T222434_20190617T222543_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records	CS_OFFL_SIR_GOPR_2_20190617T203905_20190617T204547_C001		
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Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_GOPR_2_20190617T225833_20190617T225915_C001 Mean Dynamic Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records	CS_OFFL_SIR_GOPR_2_20190617T221822_20190617T222434_C001		
CS_OFFL_SIR_GOPR_2_20190617T224805_20190617T225019_C001 Topography (1), Total Geocentric Ocean Tide GOT) Topography (1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records Topography (1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records There is an error with the Mean Dynamic Topography (solution 1) for one or more records	CS_OFFL_SIR_GOPR_2_20190617T222434_20190617T222543_C001		
or more records CS_OFFL_SIR_GOPR_2_201906171235935_201906171235915_C001 Mean Dynamic Topography (1) Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1) for one	CS_OFFL_SIR_GOPR_2_20190617T224805_20190617T225019_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide height
	CS_OFFL_SIR_GOPR_2_20190617T235833_20190617T235915_C001	Mean Dynamic Topography (1)	
	CS_OFFL_SIR_GOPR_2_20190617T235921_20190618T000005_C001	Mean Dynamic Topography (1)	

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190617T024216_20190617T024618_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20190617T033115_20190617T040006_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

Description

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

Product

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.

Test Failed

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190617T000222_20190617T000512_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_20190617T000524_20190617T000954_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_20190617T001240_20190617T002642_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_20190617T011344_20190617T013709_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_20190617T014023_20190617T014857_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_20190617T015219_20190617T021643_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_20190617T025027_20190617T030145_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_20190617T030506_20190617T031601_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_20190617T032236_20190617T032655_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_20190617T033115_20190617T040006_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_20190617T040737_20190617T040800_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_20190617T042320_20190617T043848_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_20190617T044420_20190617T045438_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_20190617T050149_20190617T050734_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_20190617T051017_20190617T051515_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_20190617T054635_20190617T054740_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_20190617T060033_20190617T063404_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_20190617T064053_20190617T064605_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_20190617T064948_20190617T070717_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_20190617T073811_20190617T080750_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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CS_OFFL_SIR_GOPM_2_20190617T080801_20190617T081251_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_20190617T082100_20190617T082513_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_20190617T082951_20190617T090256_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_20190617T091616_20190617T093454_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_20190617T093506_20190617T093743_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_20190617T093747_20190617T095209_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_20190617T095429_20190617T095951_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_20190617T100010_20190617T100224_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_20190617T101100_20190617T102324_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_20190617T102449_20190617T104140_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_20190617T110316_20190617T111423_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_20190617T111626_20190617T113105_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_20190617T113355_20190617T113850_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_20190617T114732_20190617T115154_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_20190617T120512_20190617T121747_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_20190617T125533_20190617T131004_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_20190617T131330_20190617T131818_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_20190617T132532_20190617T134754_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_20190617T134757_20190617T135113_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_20190617T142441_20190617T144928_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_20190617T145327_20190617T145717_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_20190617T150429_20190617T151534_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_20190617T152106_20190617T153059_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_20190617T160201_20190617T162858_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_20190617T163143_20190617T163631_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_20190617T163636_20190617T164006_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_20190617T164429_20190617T165450_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_20190617T165637_20190617T171801_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_20190617T173101_20190617T173329_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_20190617T180259_20190617T180443_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_20190617T180643_20190617T180754_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_20190617T181135_20190617T181659_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_20190617T182344_20190617T184503_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_20190617T184749_20190617T185835_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_20190617T190936_20190617T191248_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_20190617T192903_20190617T194620_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_20190617T200252_20190617T203540_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_20190617T205923_20190617T212334_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_20190617T213309_20190617T213502_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_20190617T214241_20190617T215923_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_20190617T220404_20190617T221822_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_20190617T223211_20190617T224805_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_20190617T225019_20190617T230506_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_20190617T231458_20190617T231915_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_20190617T232136_20190617T233552_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_20190617T233731_20190617T235807_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_20190617T014857_20190617T015045_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_20190617T095301_20190617T095429_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_20190617T104635_20190617T104754_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_20190617T141018_20190617T141054_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_20190617T191739_20190617T191834_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_20190617T022954_20190617T023051_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_20190617T071624_20190617T071748_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_20190617T122024_20190617T122128_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_20190617T154201_20190617T155054_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_20190617T173329_20190617T173440_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_20190617T184503_20190617T184749_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_20190617T194620_20190617T194946_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190617T223148_20190617T223211_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:

98

Product	Test Failed	Description
CS_OFFL_SIR_GOPN_2_20190616T235618_20190617T000222_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_20190617T003649_20190617T003741_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_20190617T010347_20190617T010510_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_20190617T013836_20190617T014023_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_20190617T021644_20190617T022039_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_20190617T022510_20190617T022632_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_20190617T022936_20190617T022954_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_20190617T023051_20190617T023114_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_20190617T023525_20190617T024007_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_20190617T024054_20190617T024216_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_20190617T032117_20190617T032236_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_20190617T045800_20190617T050149_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_20190617T052437_20190617T052757_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_20190617T054337_20190617T054459_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_20190617T054551_20190617T054635_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_20190617T055659_20190617T055818_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_20190617T064606_20190617T064726_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_20190617T070718_20190617T070947_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_20190617T081453_20190617T081902_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_20190617T090415_20190617T090638_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_20190617T100224_20190617T100409_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_20190617T104234_20190617T104556_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_20190617T105315_20190617T105344_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_20190617T110056_20190617T110316_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_20190617T113211_20190617T113355_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_20190617T114045_20190617T114322_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_20190617T115926_20190617T120451_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_20190617T122222_20190617T122502_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_20190617T122504_20190617T122647_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_20190617T131958_20190617T132324_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_20190617T135907_20190617T140029_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_20190617T140119_20190617T140509_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_20190617T141018_20190617T141054_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_20190617T142233_20190617T142441_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_20190617T145101_20190617T145327_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_20190617T163019_20190617T163143_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_20190617T171801_20190617T171922_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_20190617T181701_20190617T182012_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_20190617T191248_20190617T191431_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_20190617T192551_20190617T192903_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_20190617T195558_20190617T195920_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_20190617T205124_20190617T205202_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_20190617T213502_20190617T214128_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_20190617T222543_20190617T222704_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_20190617T223000_20190617T223101_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_20190617T230549_20190617T231202_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.

COUNTLINES, COPIL, 2 2 1000 1710 2010 2010 2010 2010 2010	CS_OFFL_SIR_GOPN_2_20190617T231415_20190617T231458_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CB_OFFL_SIR_GOPPL_2_2016817T02304_2016817T02305_0000 CB_OFFL_SIR_GOPPL_2_2016817T02311_2018917T02305_0000 CB_OFFL_SIR_GOPPL_2_2016817T02311_2018917T02305_0000 CB_OFFL_SIR_GOPPL_2_2016817T02304_2018817T02305_0000 CB_OFFL_SIR_GOPPL_2_2016817T02305_00000 CB_OFFL_SIR_GOPPL_2_2016817T02305_0000000000000000000000000000000000	CS_OFFL_SIR_GOPN_2_20190617T231916_20190617T232051_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
COC All mode Range Caulity F.R.M. COCO Secretario Caulity F.R.M. COCO All mode Sec	CS_OFFL_SIR_GOPR_2_20190617T002642_20190617T002821_C001	PLRM OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CO. DOFFL SRIK GOMP 2_2019001/100309_2019001/100301_0001 CO. DOFFL SRIK GOMP 2_2019001/100309_2019001/100309_0001 CO. DOFFL SRIK GOMP 2_2019001/100309_2019001/100309_0001 CO. DOFFL SRIK GOMP 2_2019001/100309_2019001/100309_0001 CO. DOFFL SRIK GOMP 2_2019001/100309_0001 CO. DOFFL SRIK GOMP 2_2019001/100309_0001 CO. DOFFL SRIK GOMP 2_2019001/100309_0001 CO. DOFFL SRIK GOMP 2_2019001/1700309_0001 C	CS OFFL SIR GOPR 2 20190617T003112 20190617T003531 C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CC_OFF_SR_COPR_2_2018817T04560_respectivity. Collaboration of the control of the control of the collaboration of t		•	
Set Diff., SRR, COPR. 2, 2016617701376, 2019017701328, COD and Basissaster Coulty PLRAL COOS and Street Street, SRR, COPR. 2, 2016617701376, 2019017701338, COD CC, OPPL, SR, GOPR. 2, 2016617701376, 2019017702088, COD CC, OPPL, SR, GOPR. 2, 2016617701376, 2019017701376, COD Annual Response Street, SRR, SSRR,	CS_OFFL_SIR_GOPR_2_20190617T004950_20190617T005553_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CB_OFFL_SIR_OOPR_2_20108117102319_20108017102319_C0101	CS_OFFL_SIR_GOPR_2_20190617T011100_20190617T011221_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_SR_COPR_2_201001710314_201001710318_0001 CS_OFF_SR_COPR_2_2010017103100_20100170318_0001 CS_OFF_SR_COPR_2_2010017103000_20100170318_0001 CS_OFF_SR_COPR_2_2010017103000_20100170318_0001 CS_OFF_SR_COPR_2_2010017103000_20100170318_0001 CS_OFF_SR_COPR_2_2010017103000_201001703100_0001 CS_OFF_SR_COPR_2_2010017103000_201001703100_0001 CS_OFF_SR_COPR_2_2010017103000_201001703100_0001 CS_OFF_SR_COPR_2_2010017103000_201001703100_0001 CS_OFF_SR_COPR_2_2010017103000_201001703100_0001 CS_OFF_SR_COPR_2_2010017103000_201001703000_0001 CS_OFF_SR_COPR_2_2010017103000_201001703000_0001 CS_OFF_SR_COPR_2_2010017103000_2010017030000_0001 CS_OFF_SR_COPR_2_2010017103000_2010010703000_0001 CS_OFF_SR_COPR_2_2010017103000_2010010703000_0001 CS_OFF_SR_COPR_2_2010017103000_20100107030000_0001 CS_OFF_SR_COPR_2_2010017103000_20100107030000_0001 CS_OFF_SR_COPR_2_2010017103000_20100107030000_0001 CS_OFF_SR_COPR_2_2010017103000_20100107030000_0001 CS_OFF_SR_COPR_2_2010017103000_20100107030000_0001 CS_OFF_SR_COPR_2_2010017103000_20100107030000_0001 CS_OFF_SR_COPR_2_2010017103000_201001071030000_0001 CS_OFF_SR_COPR_2_2010017103000_201001071030000_0001 CS_OFF_SR_COPR_2_2010017103000_201001071030000_0001 CS_OFF_SR_COPR_2_20100117103000_201001071030000_0001 CS_OFF_SR_COPR_2_20100117103000_201001071030000_0001 CS_OFF_SR_COPR_2_20100117103000_2010010710300000000000000000000000000000	CS_OFFL_SIR_GOPR_2_20190617T013709_20190617T013836_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description (1997) and the company of Education (1997) PLEAS. COCID Allerance Plangs and Education (1997) PLEAS. (1996) PLEAS (1996) PL	CS_OFFL_SIR_GOPR_2_20190617T022709_20190617T022936_C001		
GS_OFFL_SIR_GOPR_2_20190817T031801_20190817T031814_C001 All Bucksoutter Charley PLRN. COCO All Review Range and Backsoutter Charley Plags have been seen from one of more records. CS_OFFL_SIR_GOPR_2_20190817T040800_20190817T041807_C001 CS_OFFL_SIR_GOPR_2_20190817T040800_20190817T045000_C001 All Review Range and Backsoutter Charley Plags have been seen from one or more records. CS_OFFL_SIR_GOPR_2_20190817T05493_20190817T055000_C001 All Review Range and Backsoutter Charley Plags have been seen from one or more records. CS_OFFL_SIR_GOPR_2_20190817T05493_20190817T055000_C001 CS_OFFL_SIR_GOPR_2_20190817T05494_20190817T055000_C001 CS_OFFL_SIR_GOPR_2_20190817T05494_20190817T055738_C001 CS_OFFL_SIR_GOPR_2_20190817T05494_20190817T057494_C001 CS_OFFL_SIR_GOPR_2_20190817T07194_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T077444_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T09084_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T109084_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T109084_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T109084_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T109084_20190817T071948_C001 CS_OFFL_SIR_GOPR_2_20190817T109084_201908	CS_OFFL_SIR_GOPR_2_20190617T023114_20190617T023525_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Ocea Altmeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range set Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range set Backscatter Quality Flags have been set for one or more records. Ocea Altmeter Range and Backscatter	CS_OFFL_SIR_GOPR_2_20190617T031601_20190617T031814_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190617T045499_20190617T045800_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T05659_C001 CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T057392_C001 CS_OFFL_SIR_GOPR_2_20190617T057442_20190617T0572049_C001 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T071746_C001 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T071746_C001 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T070449_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T070449_C0190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T070444_20190617T072049_C001 CS_OFFL_SIR_GOPR_2_20190617T00440_20190617T002100_C001 CS_OFFL_SIR_GOPR_2_20190617T00440_20190617T002100_C001 CS_OFFL_SIR_GOPR_2_20190617T100440_20190617T002100_C001 CS_OFFL_SIR_GOPR_2_20190617T100440_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100440_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T110440_20190617T111100_C001 CS_OFFL_SIR_GOPR_2_20190617T110440_20190617T111100_C001 CS_OFFL_SIR_GOPR_2_20190617T110440_20190617T111100_C001 CS_OFFL_SIR_GOPR_2_20190617T110440_20190617T111100_C001 CS_OFFL_SIR_GOPR_2_20190617T110440_20190617T111100_C001 CS_OFFL_SIR_GOPR_2_20190617T110440_20190617T111100_C001 CS_OFFL_SIR_GOPR_2_20190617T110440_20190617T111100_C001 CS_OFFL_SI	CS_OFFL_SIR_GOPR_2_20190617T040800_20190617T041607_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality The OCAGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCAGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_201906177054912_20190617707448_C001 CS_OFFL_SIR_GOPR_2_201906177071945_201906177072048_C001 CS_OFFL_SIR_GOPR_2_201906177072010_201906177072048_C001 CS_OFFL_SIR_GOPR_2_201906177072010_201906177072048_C001 CS_OFFL_SIR_GOPR_2_201906177072010_201906177072048_C001 CS_OFFL_SIR_GOPR_2_201906177072010_201906177072048_C001 CS_OFFL_SIR_GOPR_2_201906177072010_201906177072010_C001 CS_OFFL_SIR_GOPR_2_201906177072010_201906177072010_C001 CS_OFFL_SIR_GOPR_2_201906177082053_201906177082051_C001 CS_OFFL_SIR_GOPR_2_2019061771082054_201906177082051_C001 CS_OFFL_SIR_GOPR_2_2019061771080844_201906177082051_C001 CS_OFFL_SIR_GOPR_2_2019061771080844_2019061771081616_C001 CS_OFFL_SIR_GOPR_2_201906177108345_201906177108515_C001 CS_OFFL_SIR_GOPR_2_201906177108345_201906177108515_C001 CS_OFFL_SIR_GOPR_2_201906177110845_201906177111206_C001 CS_OFFL_SIR_GOPR_2_201906177111423_2019061771111206_C001 CS_OFFL_SIR_GOPR_2_201906177111423_2019061771111206_C001 CS_OFFL_SIR_GOPR_2_201906177111423_2019061771111206_C001 CCGG Altimeter Range_C01411111111111111111111111111111111111	CS_OFFL_SIR_GOPR_2_20190617T045439_20190617T045800_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190817T054912_20190817T055690_C001 Almedra Range and Backscatter (Duality PLRM, COCO Standard Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190817T071624_20190817T071748_C001 CS_OFFL_SIR_GOPR_2_20190817T071624_20190817T072048_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T072048_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T072048_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T072048_C001 CS_OFFL_SIR_GOPR_2_20190817T071945_20190817T072048_C001 CS_OFFL_SIR_GOPR_2_20190817T072910_20190817T072048_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T082052_20190817T082100_C001 CS_OFFL_SIR_GOPR_2_20190817T080844_20190817T082101_C001 CS_OFFL_SIR_GOPR_2_20190817T080844_20190817T081816_C001 CS_OFFL_SIR_GOPR_2_20190817T090844_20190817T081816_C001 CS_OFFL_SIR_GOPR_2_20190817T1090844_20190817T091816_C001 CS_OFFL_SIR_GOPR_2_20190817T1093452_20190817T105155_C001 CS_OFFL_SIR_GOPR_2_20190817T105345_20190817T105155_C001 CS_OFFL_SIR_GOPR_2_20190817T105345_20190817T105155_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T1111620_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T1111620_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T1111620_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T1111520_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T1111520_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T111520_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T111520_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T111520_C001 CS_OFFL_SIR_GOPR_2_20190817T111422_20190817T111520_C001 CCCCA Altime	CS_OFFL_SIR_GOPR_2_20190617T053832_20190617T053903_C001		
CS_OFFL_SIR_GOPR_2_20190617T063404_20190617T083738_CO01 CS_OFFL_SIR_GOPR_2_20190617T076340_20190617T071748_CO01 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T071748_CO01 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072048_CO01 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072048_CO01 CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072048_CO01 CS_OFFL_SIR_GOPR_2_20190617T072910_20190617T072048_CO01 CS_OFFL_SIR_GOPR_2_20190617T072910_20190617T072010 CS_OFFL_SIR_GOPR_2_20190617T072910_20190617T072010 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082100_CO01 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_CO01 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082061_CO01 CS_OFFL_SIR_GOPR_2_20190617T092044_CO010 CS_OFFL_SIR_GOPR_2_20190617T092045_CO01 CS_OFFL_SIR_GOPR_2_20190617T092045_CO01 CS_OFFL_SIR_GOPR_2_20190617T092051_CO01 CS_OFFL_SIR_GOPR_2_20190617T092054_CO010 CS_OFFL_SIR_GOPR_2_20190617T092054_CO010 CS_OFFL_SIR_GOPR_2_20190617T092054_CO010 CS_OFFL_SIR_GOPR_2_20190617T092054_CO010 CS_OFFL_SIR_GOPR_2_20190617T092054_CO010 CS_OFFL_SIR_GOPR_2_20190617T092054_CO010 CS_OFFL_SIR_GOPR_2_20190617T092054_CO0100617T001100_CO01 CS_OFFL_SIR_GOPR_2_20190617T109354_CO0100617T001100_CO01 CS_OFFL_SIR_GOPR_2_20190617T109354_CO0100617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CCC_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CCC_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CCC_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CCC_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CCC_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CCC_OFFL_SIR_GOPR_2_20190617T100410_20190617T10100_CO01 CCC_OFFL_SIR_GOPR_2_20190617T100410_20190617T1010010 CCC_OFFL_SIR_GOPR_2_20190617T100410_20	CS_OFFL_SIR_GOPR_2_20190617T054912_20190617T055659_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072048_C001 CS_OFFL_SIR_GOPR_2_20190617T072010_20190617T072048_C001 CS_OFFL_SIR_GOPR_2_20190617T072010_20190617T073811_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082100_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082051_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T0910161_C001 CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T0910161_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T1091016_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_C001 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T115557_C001 CS_OFFL_SIR_GOPR_2_20190617T11555_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T115155_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_2019061	CS_OFFL_SIR_GOPR_2_20190617T063404_20190617T063738_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCGG Backscatter Quality CS_OFFL_SIR_GOPR_2_20190617T072910_20190617T073811_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082100_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082100_C001 CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082951_C001 CS_OFFL_SIR_GOPR_2_20190617T082623_20190617T082951_C001 CS_OFFL_SIR_GOPR_2_20190617T082623_20190617T082951_C001 CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T091616_C001 CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T091616_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T091616_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T111626_C001 CS_OFFL_SIR_GOPR_2_20190617T111123_20190617T1115307_C001 CS_OFFL_SIR_GOPR_2_20190617T111123_20190617T1115307_C001 CS_OFFL_SIR_GOPR_2_20190617T111122024_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T111122024_20190617T1122128_C001 CCGA Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM,	CS_OFFL_SIR_GOPR_2_20190617T071624_20190617T071748_C001		
CS_OFFL_SIR_GOPR_2_20190617T072910_20190617T08210_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082100_C001 CS_OFFL_SIR_GOPR_2_20190617T08263_20190617T082951_C001 CS_OFFL_SIR_GOPR_2_20190617T092644_20190617T092951_C001 CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T091616_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T010100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T1010515_C001 CS_OFFL_SIR_GOPR_2_20190617T1104345_20190617T1105515_C001 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T111626_C001 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T111626_C001 CS_OFFL_SIR_GOPR_2_20190617T111555_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T1122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T1122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T1122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T1122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T122126_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T122126_C001 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122126_C001 CCS_O	CS_OFFL_SIR_GOPR_2_20190617T071945_20190617T072048_C001		
CS_OFFL_SIR_GOPR_2_20190617T082623_20190617T082951_CO01 CS_OFFL_SIR_GOPR_2_20190617T082623_20190617T082951_CO01 CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T091616_CO01 CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T091616_CO01 CS_OFFL_SIR_GOPR_2_20190617T1090844_20190617T091616_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_CO01 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_CO01 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T1105515_CO01 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T111626_CO01 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T1115307_CO01 CS_OFFL_SIR_GOPR_2_20190617T112024_20190617T115307_CO01 CS_OFFL_SIR_GOPR_2_20190617T112024_20190617T1122128_CO01 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T1122128_CO01 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T1122128_CO01 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T1122128_CO01 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_CO01 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_CO01 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_CO01 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T1122128_CO01 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CS_OFFL_SIR_GOPR_2_20190617T072910_20190617T073811_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range, SPIA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190617T1090844_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_C001 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T111626_C001 CS_OFFL_SIR_GOPR_2_20190617T1111626_C001 CS_OFFL_SIR_GOPR_2_20190617T1111626_C001 CS_OFFL_SIR_GOPR_2_20190617T1111626_C001 CS_OFFL_SIR_GOPR_2_20190617T1111626_C001 CS_OFFL_SIR_GOPR_2_20190617T1111626_C001 CS_OFFL_SIR_GOPR_2_20190617T111626_C001 CS_OFFL_SIR_GOPR_2_20190617T1124224_20190617T1122128_C001 CCS_OFFL_SIR_GOPR_2_20190617T1124224_20190617T1124827_C001 CCS_OFFL_SIR_GOPR_2_20190617T1124728_20190617T1124827_C001 CCS_OFFL_SIR_GOPR_2_20190617T1124728_20190617T1124827_C001	CS_OFFL_SIR_GOPR_2_20190617T082053_20190617T082100_C001		
CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T091616_C001 and Backscatter Quality PLRM, CCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T1105515_C001 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T111626_C001 CS_OFFL_SIR_GOPR_2_20190617T111423_20190617T111626_C001 CS_OFFL_SIR_GOPR_2_20190617T111555_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T115155_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T1122128_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T1122128_C001 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190617T115155_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T1122024_20190617T1122128_C001 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CCOG Range and Backscatter Quality Flags have been set for one or more records. CCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20190617T082623_20190617T082951_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001 CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_C001 CS_OFFL_SIR_GOPR_2_20190617T1111423_20190617T1111626_C001 CS_OFFL_SIR_GOPR_2_20190617T1111423_20190617T11555_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T11555_20190617T115307_C001 CS_OFFL_SIR_GOPR_2_20190617T112024_20190617T1122128_C001 CS_OFFL_SIR_GOPR_2_20190617T112024_20190617T1122128_C001 CS_OFFL_SIR_GOPR_2_20190617T112024_20190617T1122128_C001 CS_OFFL_SIR_GOPR_2_20190617T112024_20190617T1122128_C001 CCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocog Range and Backscatter Quality Flags have been set for one or more records. The Ocog Range and Backscatter Quality Flags have been set for one or more records. The Ocog Range and Backscatter Quality Flags have been set for one or more records. The Ocog Range and Backscatter Quality Flags have been set for one or more records. The Ocog Range and Backscatter Quality Flags have been set for one or more records. The Ocog Range and Backscatter Quality Flags have been set for one or more records. The Ocog Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20190617T090844_20190617T091616_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190617T11423_20190617T111626_C001 OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20190617T100410_20190617T101100_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality More records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_GOPR_2_20190617T112024_20190617T1122128_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_GOPR_2_20190617T105345_20190617T105515_C001		
CS_OFFL_SIR_GOPR_2_20190617T115155_20190617T115307_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_C001 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_C001 CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_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_20190617T124728_20190617T124827_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_20190617T111423_20190617T111626_C001		
CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or ocognitive flags have been set for one or occognitive flags have been set for one occognitive flags have been set for occognitive flags have been set flag	CS_OFFL_SIR_GOPR_2_20190617T115155_20190617T115307_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPR_2_20190617T122024_20190617T122128_C001	OCOG Altimeter Range Quality PLRM,	1
	CS_OFFL_SIR_GOPR_2_20190617T124728_20190617T124827_C001		

CS_OFFL_SIR_GOPR_2_20190617T124827_20190617T125533_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_20190617T131005_20190617T131134_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_20190617T135113_20190617T135350_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_20190617T140509_20190617T141018_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_20190617T141054_20190617T141314_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_20190617T144929_20190617T145101_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_20190617T150235_20190617T150429_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_20190617T154201_20190617T155054_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_20190617T155113_20190617T155344_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_20190617T164138_20190617T164429_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_20190617T171922_20190617T172001_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_20190617T172124_20190617T173101_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_20190617T180754_20190617T181010_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_20190617T182012_20190617T182344_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_20190617T185835_20190617T190649_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_20190617T190915_20190617T190936_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_20190617T194620_20190617T194946_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_20190617T195920_20190617T200252_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_20190617T203905_20190617T204547_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_20190617T204547_20190617T205011_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_20190617T212335_20190617T213033_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_20190617T214129_20190617T214241_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_20190617T221822_20190617T222434_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_20190617T224805_20190617T225019_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_20190617T235833_20190617T235915_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

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:

57

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:

151

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

6.1 P2P Product Format Check

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

Number of products with errors:

Ω

6.2 P2P Product Header Analysis

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

Number of products with errors:

0

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

0

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.

Des

Tost Failed

- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220190617T000436_20190617T005410_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T005410_20190617T014350_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220190617T014350_20190617T023324_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T023324_20190617T032304_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T041238_20190617T050217_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T050217_20190617T055151_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T055151_20190617T064131_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T064131_20190617T073105_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T073105_20190617T082044_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T082044_20190617T091018_C001	Mean Sea Suriace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (EES), Non-Equilibrium Long Period	There is an error with the MSS freight (solution 1) and the Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records.
CS_OFFL_SIR_GOP_220190617T091018_20190617T095958_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T095958_20190617T104932_C001		(solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20190617T104932_20190617T113911_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is 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_220190617T113911_20190617T122845_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220190617T122845_20190617T131825_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the GPD Wet Troposheric Correction, the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOP_220190617T131825_20190617T140759_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Troposheric Correction, the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T140759_20190617T145739_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Troposheric Correction, the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T145739_20190617T154713_C001	GPD Wet Tropospheric Correction, Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Troposheric Correction, the MSS height (solution 1) and the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T154713_20190617T163652_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T163652_20190617T172626_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20190617T172626_20190617T181606_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T181606_20190617T190540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T190540_20190617T195519_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T195519_20190617T204453_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T204453_20190617T213433_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T213433_20190617T222407_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190617T222407_20190617T231346_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20190617T231346_20190618T000320_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

- 1

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: 28

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: 2

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: 26

P2P Retracking Flags PLRM

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

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