

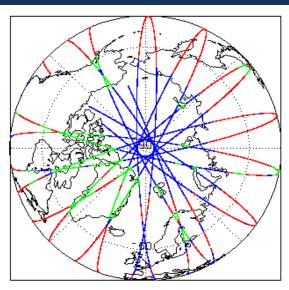
1. Overview

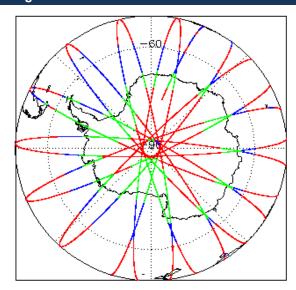
Report Production:	22-Jun-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP L1B, L2 & P2P Science Data	

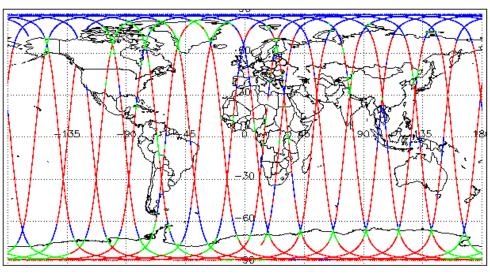
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

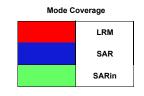
M	lission / Instru	ment News
	16-Jun-2020	None
	17-Jun-2020	None
	18-Jun-2020	Nothing planned

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. IOP 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 IOPR and IOPN 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:

0

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:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

0

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 products over land, but this is to be expected.

Number of products with errors:

25

CS_OFFL_SIR_IOPMIB_20200617T103212_20200617T11192_C011 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T114755_20200617T111192_C011 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T133714_20200617T1221624_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T2316343_20200617T032805_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T032806_20200617T032805_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T032806_20200617T032805_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T032806_20200617T032805_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T132553_20200617T032805_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T145221_2020617T145395_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T145221_20200617T145415_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T145491_20200617T145316_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T163408_20200617T163406_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T163408_20200617T163406_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T163404_20200617T163406_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T04493_20200617T04493_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T04930_20200617T06432_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPMIB_20200617T033804_20200617T084249_C001 Loss of Echo The tracking	Product	Test Failed	Description
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CS_OFFL_SIR_IOPN1B_20200617T173257_20200617T173426_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPN1B_20200617T180947_20200617T0181416_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T014930_20200617T015653_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T041943_20200617T042032_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T053804_20200617T054159_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T063852_20200617T064322_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T081840_20200617T082249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T1802249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T13043_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T1801244_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20200617T154951_20200617T155136_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20200617T180947_20200617T181416_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T04930_20200617T042032_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T041943_20200617T042032_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T053804_20200617T054159_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T063852_20200617T064322_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T081840_20200617T082249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T1814444_20200617T182124_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20200617T163408_20200617T163520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T014930_20200617T015653_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T041943_20200617T042032_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T053804_20200617T054159_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T063852_20200617T064322_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T081840_20200617T082249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20200617T173257_20200617T173426_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T041943_20200617T042032_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T053804_20200617T054159_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T063852_20200617T064322_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T081840_20200617T082249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPN1B_20200617T180947_20200617T181416_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T053804_20200617T054159_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T063852_20200617T064322_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T081840_20200617T082249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T014930_20200617T015653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T063852_20200617T064322_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T1081840_20200617T1082249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T181444_20200617T182124_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T041943_20200617T042032_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T081840_20200617T082249_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T053804_20200617T054159_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T1814444_20200617T182124_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T063852_20200617T064322_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T181444_20200617T182124_C001 Loss of Echo The tracking echo is missing for one or more records The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T081840_20200617T082249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T181444_20200617T182124_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T123448_20200617T123709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20200617T181444_20200617T182124_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T130351_20200617T130543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T181444_20200617T182124_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T173043_20200617T173257_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_IOPR1B_20200617T180801_20200617T180852_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20200617T212934_20200617T213817_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20200617T181444_20200617T182124_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_IOPR1B_20200617T212934_20200617T213817_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

0

5.3 L2 Auxiliary Data File Usage Check

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

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.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and 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_IOPM_2_20200617T081359_20200617T081434_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20200617T081434_20200617T081439_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200617T004826_20200617T004952_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200617T005504_20200617T005806_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)
CS_OFFL_SIR_IOPN_2_20200617T022835_20200617T023139_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200617T023406_20200617T023919_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)
CS_OFFL_SIR_IOPN_2_20200617T032509_20200617T032802_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200617T040843_20200617T041117_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)
CS_OFFL_SIR_IOPN_2_20200617T050356_20200617T050512_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)
CS_OFFL_SIR_IOPN_2_20200617T054343_20200617T054947_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200617T064322_20200617T064539_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)
CS_OFFL_SIR_IOPN_2_20200617T072601_20200617T072746_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)
CS_OFFL_SIR_IOPN_2_20200617T082249_20200617T082733_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)
CS_OFFL_SIR_IOPN_2_20200617T091418_20200617T091702_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)
CS_OFFL_SIR_IOPN_2_20200617T104523_20200617T104912_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)
CS_OFFL_SIR_IOPN_2_20200617T122502_20200617T122817_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)
CS_OFFL_SIR_IOPN_2_20200617T123329_20200617T123448_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20200617T131601_20200617T131634_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20200617T141235_20200617T141347_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)
CS_OFFL_SIR_IOPN_2_20200617T145449_20200617T145611_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)
CS_OFFL_SIR_IOPN_2_20200617T162850_20200617T163315_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20200617T172809_20200617T173043_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)
CS_OFFL_SIR_IOPN_2_20200617T180947_20200617T181416_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20200617T190720_20200617T191049_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)
CS_OFFL_SIR_IOPN_2_20200617T194846_20200617T195237_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)

CS_OFFL_SIR_IOPN_2_20200617T204827_20200617T205010_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200616T235915_20200617T000559_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)
CS_OFFL_SIR_IOPR_2_20200617T000559_20200617T000848_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)
CS_OFFL_SIR_IOPR_2_20200617T013744_20200617T014457_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)
CS_OFFL_SIR_IOPR_2_20200617T014458_20200617T014712_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)
CS_OFFL_SIR_IOPR_2_20200617T031921_20200617T032353_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)
CS_OFFL_SIR_IOPR_2_20200617T032353_20200617T032509_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)
CS_OFFL_SIR_IOPR_2_20200617T045716_20200617T050225_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)
CS_OFFL_SIR_IOPR_2_20200617T050225_20200617T050356_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)
CS_OFFL_SIR_IOPR_2_20200617T053804_20200617T054159_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200617T063852_20200617T064322_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)
CS_OFFL_SIR_IOPR_2_20200617T081439_20200617T081707_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200617T081840_20200617T082249_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)
CS_OFFL_SIR_IOPR_2_20200617T095528_20200617T100329_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)
CS_OFFL_SIR_IOPR_2_20200617T112529_20200617T112631_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20200617T113639_20200617T114428_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)
CS_OFFL_SIR_IOPR_2_20200617T131634_20200617T132538_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)
CS_OFFL_SIR_IOPR_2_20200617T145611_20200617T150129_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)
CS_OFFL_SIR_IOPR_2_20200617T163520_20200617T164042_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)
CS_OFFL_SIR_IOPR_2_20200617T173043_20200617T173257_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20200617T181416_20200617T181444_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)
CS_OFFL_SIR_IOPR_2_20200617T181444_20200617T182124_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)
CS_OFFL_SIR_IOPR_2_20200617T195237_20200617T195743_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)
CS_OFFL_SIR_IOPR_2_20200617T212934_20200617T213817_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)
CS_OFFL_SIR_IOPR_2_20200617T230850_20200617T231832_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)
CS_OFFL_SIR_IOPR_2_20200617T232544_20200617T232730_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200617T000848_20200617T000952_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_IOPM_2_20200617T002719_20200617T003034_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_IOPM_2_20200617T003103_20200617T003258_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_IOPM_2_20200617T003516_20200617T004545_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_IOPM_2_20200617T004952_20200617T005504_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_IOPM_2_20200617T010143_20200617T012317_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_IOPM_2_20200617T012602_20200617T013744_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_IOPM_2_20200617T015653_20200617T015832_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_IOPM_2_20200617T020602_20200617T021213_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_IOPM_2_20200617T021246_20200617T022431_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_IOPM_2_20200617T023139_20200617T023405_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_IOPM_2_20200617T024126_20200617T031741_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_IOPM_2_20200617T032952_20200617T034912_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_IOPM_2_20200617T034920_20200617T040156_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_IOPM_2_20200617T041117_20200617T041313_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_IOPM_2_20200617T041504_20200617T041817_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_IOPM_2_20200617T042032_20200617T043538_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_IOPM_2_20200617T043741_20200617T044752_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_IOPM_2_20200617T050512_20200617T050713_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_IOPM_2_20200617T050953_20200617T052621_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_IOPM_2_20200617T054245_20200617T054343_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_IOPM_2_20200617T054947_20200617T055233_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_IOPM_2_20200617T060003_20200617T061404_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_IOPM_2_20200617T061544_20200617T061809_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_IOPM_2_20200617T070111_20200617T072431_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_IOPM_2_20200617T072746_20200617T073622_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_IOPM_2_20200617T073939_20200617T080357_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_IOPM_2_20200617T083545_20200617T090326_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_IOPM_2_20200617T090959_20200617T091418_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_IOPM_2_20200617T091836_20200617T094742_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_IOPM_2_20200617T101057_20200617T104203_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_IOPM_2_20200617T104912_20200617T105458_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_IOPM_2_20200617T105737_20200617T110240_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_IOPM_2_20200617T110721_20200617T111129_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_IOPM_2_20200617T114755_20200617T122125_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_IOPM_2_20200617T122817_20200617T123328_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_IOPM_2_20200617T123825_20200617T125438_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_IOPM_2_20200617T131304_20200617T131429_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_IOPM_2_20200617T132538_20200617T133627_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_IOPM_2_20200617T133714_20200617T135507_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_IOPM_2_20200617T135518_20200617T140016_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_IOPM_2_20200617T140631_20200617T140816_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_IOPM_2_20200617T140823_20200617T141235_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_IOPM_2_20200617T140823_20200617T141235_C001 CS_OFFL_SIR_IOPM_2_20200617T141713_20200617T143646_C001		
	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200617T141713_20200617T143646_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200617T141713_20200617T143646_C001 CS_OFFL_SIR_IOPM_2_20200617T143707_20200617T145009_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, 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
CS_OFFL_SIR_IOPM_2_20200617T141713_20200617T143646_C001 CS_OFFL_SIR_IOPM_2_20200617T143707_20200617T145009_C001 CS_OFFL_SIR_IOPM_2_20200617T145009_20200617T145107_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, 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
CS_OFFL_SIR_IOPM_2_20200617T141713_20200617T143646_C001 CS_OFFL_SIR_IOPM_2_20200617T143707_20200617T145009_C001 CS_OFFL_SIR_IOPM_2_20200617T145009_20200617T145107_C001 CS_OFFL_SIR_IOPM_2_20200617T150349_20200617T150750_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200617T141713_20200617T143646_C001 CS_OFFL_SIR_IOPM_2_20200617T143707_20200617T145009_C001 CS_OFFL_SIR_IOPM_2_20200617T145009_20200617T145107_C001 CS_OFFL_SIR_IOPM_2_20200617T150349_20200617T150750_C001 CS_OFFL_SIR_IOPM_2_20200617T150752_20200617T152237_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200617T141713_20200617T143646_C001 CS_OFFL_SIR_IOPM_2_20200617T143707_20200617T145009_C001 CS_OFFL_SIR_IOPM_2_20200617T145009_20200617T145107_C001 CS_OFFL_SIR_IOPM_2_20200617T150349_20200617T150750_C001 CS_OFFL_SIR_IOPM_2_20200617T150752_20200617T152237_C001 CS_OFFL_SIR_IOPM_2_20200617T152718_20200617T153323_C001	Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Deep China Shi 1974 2 200001710100 2	CS_OFFL_SIR_IOPM_2_20200617T155821_20200617T161047_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_OFTL_SR_JONL_2_2000017110012_2000017110	CS_OFFL_SIR_IOPM_2_20200617T161202_20200617T162850_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_GPF1_SR_QPM2_20000617117582_2000617175950_001	CS_OFFL_SIR_IOPM_2_20200617T165107_20200617T170149_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Page Comp. 2,00000117110102 2,0000017110102 2,0000017110102 2,0000017110001 2,0000017110001 2,0000017110001 2,0000017110001 2,0000017110001 2,0000017110001 2,00000171100001 2,000000171100001 2,00000171100001 2,00000171100001 2,00000171100001 2,00000171100001 2,0	CS_OFFL_SIR_IOPM_2_20200617T170352_20200617T171828_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Booksteen Custory Secretary Custory Secretary Custory Secretary Custory Custor	CS_OFFL_SIR_IOPM_2_20200617T172118_20200617T172613_C001		
de Backsratter Quality, OCODE Affinition of Rengal and Backsratter Quality (and by the Cope of Internation Rengal and Backsratter Quality Flags) never been designed from the Cope of Internation Rengal and Backsratter Quality Flags Inverved and Backsratter Quality Flags Inverved and Backsratter Quality Flags Inverved Flags Backsratter Quality Flags Inverved Backsratter Quality Flags Inverved Flags Backsratter Quality Flags Inverved Backsratter Quality Flags Inverved Flags Backsratter Quality Flags Inverved Flags Backsratter Quality Flag	CS_OFFL_SIR_IOPM_2_20200617T172619_20200617T172626_C001		
Section Column	CS_OFFL_SIR_IOPM_2_20200617T173459_20200617T174005_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backszeiter Cusiniy COCG Allimeter Range and Backszeiter Cusiniy Rags have been add ready and ready and backszeiter Cusiniy Rags have been add ready and backszeiter Cusiniy Rags ha	CS_OFFL_SIR_IOPM_2_20200617T175235_20200617T180512_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Justily Ce_OFFL_SIR_IOPM_2_20200617T19302_2020617T19302_COT Almother Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. Ce_OFFL_SIR_IOPM_2_20200617T19302_2020617T193446_COT Almother Range and Backscatter Quality Flags have been set for one or more records. Ce_OFFL_SIR_IOPM_2_20200617T19300_2020617T193446_COT Ce_OFFL_SIR_IOPM_2_20200617T19300_2020617T193044_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T203231_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T203231_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T203231_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T203444_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T203444_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T20444_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T204441_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201218_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201201_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201201_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201201_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201201_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201201_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201201_2020617T201201_COT Ce_OFFL_SIR_IOPM_2_20200617T201201_	CS_OFFL_SIR_IOPM_2_20200617T184311_20200617T185730_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and backcaster Cuality, OCOC Altimoter Range and Backcaster Cuality Flags have been Altimoter Range and Backcaster Cuality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200617T193456_C001 CS_OFFL_SIR_IOPM_2_20200617T193500_20200617T193454_C001 CS_OFFL_SIR_IOPM_2_20200617T201219_20200617T203231_C001 CS_OFFL_SIR_IOPM_2_20200617T201219_20200617T203244_C001 CS_OFFL_SIR_IOPM_2_20200617T201219_20200617T203246_C001 CS_OFFL_SIR_IOPM_2_20200617T203232_20200617T203246_C001 CS_OFFL_SIR_IOPM_2_20200617T203232_20200617T203246_C001 CS_OFFL_SIR_IOPM_2_20200617T203243_C001 CS_OFFL_SIR_IOPM_2_20200617T203243_C001 CS_OFFL_SIR_IOPM_2_20200617T203244_C001 CS_OFFL_SIR_IOPM_2_20200617T203246_C001 CS_OFFL_SIR_IOPM_2_20200617T203236_C001 CS_OFFL_SIR_IOPM_2_20200617T203236_C001 CS_OFFL_SIR_IOPM_2_20200617T20336_C001 CS_OFFL_SIR_IOPM_2_20200617T20336_C000 CS_OFFL_SIR_IOPM_2_20200617T20336_	CS_OFFL_SIR_IOPM_2_20200617T190051_20200617T190527_C001		
In and Backscatter Quality, COCG All mineter Range and Backscatter Quality Flags have been and the COCG All mineter Range and Backscatter Quality Flags have been and beautiful to the Color All mineter Range and Backscatter Quality Flags have been and beautiful to the Color All mineter Range and Backscatter Quality Flags and beautiful to Color All mineter Range and Backscatter Quality Flags have been after the Color All mineter Range and Backscatter Quality Flags have been after the Color All mineter Range and Backscatter Quality Flags have been after the Color All mineter Range and Backscatter Quality Flags have been after the Color All mineter Range and Backscatter Quality Flags have been after the Color All mineter Range and Backscatter Quality Flags have been after the Color All mineter Range and Backscatter Quality Flags have been after the Color All mineter Range and Backscatter Quality Flags have been after Quality	CS_OFFL_SIR_IOPM_2_20200617T191302_20200617T193025_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_202006177193500_2020061771203212_C001 CS_OFFL_SIR_JOPM_2_202006177201218_202006177203212_C001 CS_OFFL_SIR_JOPM_2_202006177204054_202006177203848_C001 CS_OFFL_SIR_JOPM_2_202006177204054_202006177203848_C001 CS_OFFL_SIR_JOPM_2_202006177204054_202006177203848_C001 CS_OFFL_SIR_JOPM_2_202006177204054_202006177203848_C001 CS_OFFL_SIR_JOPM_2_202006177204054_202006177204441_C001 CS_OFFL_SIR_JOPM_2_202006177204054_202006177204441_C001 CS_OFFL_SIR_JOPM_2_202006177204054_202006177204441_C001 CS_OFFL_SIR_JOPM_2_202006177205151_202006177221624_C001 CS_OFFL_SIR_JOPM_2_202006177205151_202006177221624_C001 CS_OFFL_SIR_JOPM_2_202006177225104_202006177222354_C001 CS_OFFL_SIR_JOPM_2_202006177224004_202006177222354_C001 CS_OFFL_SIR_JOPM_2_202006177223503_C001 CS_OFFL_SIR_JOPM_2_202006177223503_2020061772323503_C001 CS_OFFL_SIR_JOPM_2_202006177235038_20200617723508_C001 CS_OFFL_SIR_JOPM_2_202006177235038_20200617723508_C001 CS_OFFL_SIR_JOPM_2_202006177235038_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617723508_20200617723508_C001 CS_OFFL_SIR_JOPM_2_20200617	CS_OFFL_SIR_IOPM_2_20200617T193027_20200617T193458_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been extended to the Cognotion of the Cognot	CS_OFFL_SIR_IOPM_2_20200617T193500_20200617T193844_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set CS_OFFL_SIR_IOPM_2_20200617T204054_20200617T204441_C001 CS_OFFL_SIR_IOPM_2_20200617T204054_20200617T204441_C001 CS_OFFL_SIR_IOPM_2_20200617T205151_20200617T21823_C001 CS_OFFL_SIR_IOPM_2_20200617T205151_20200617T21823_C001 CS_OFFL_SIR_IOPM_2_20200617T205151_20200617T21823_C001 CS_OFFL_SIR_IOPM_2_20200617T215043_20200617T221624_C001 CS_OFFL_SIR_IOPM_2_20200617T215043_20200617T221624_C001 CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222730_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T222730_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T222730_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T223505_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232505_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T23508_20200617T23508_C001 CS_	CS_OFFL_SIR_IOPM_2_20200617T201218_20200617T203231_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200617T205151_20200617T21823_C001 CS_OFFL_SIR_IOPM_2_20200617T205151_20200617T21823_C001 CS_OFFL_SIR_IOPM_2_20200617T215043_20200617T221624_C001 CS_OFFL_SIR_IOPM_2_20200617T215043_20200617T221624_C001 CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T221624_C001 CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T22230_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T22230_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T2230530_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T231832_20200617T231832_C0200617T231832_C0200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235288_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235288_C001 CS_OFFL_SIR_IOPM_2_20200617T235388_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618	CS_OFFL_SIR_IOPM_2_20200617T203323_20200617T203648_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags have been Altimeter Range Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222730_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T230530_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T230530_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T23508_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T23508_2	CS_OFFL_SIR_IOPM_2_20200617T204054_20200617T204441_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records. CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T222354_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222730_C001 CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222730_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T230530_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T230530_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T035519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T035519_C001 CS_OFFL_SIR_IOPM_2_20200617T235588_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235588_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235588_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235588_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235588_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235888_20200618T000423_C001 CCOG Altimeter Range Quality, OCOG Altimeter Range	CS_OFFL_SIR_IOPM_2_20200617T205151_20200617T211823_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222730_C001 Backscatter Quality CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T223730_C001 CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T230530_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_S	CS_OFFL_SIR_IOPM_2_20200617T215043_20200617T221624_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T230530_C001 CS_OFFL_SIR_IOPM_2_20200617T23151_20200617T230530_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001 CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T23508_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CCOGA Altimeter Range Quality, OCOGA Itimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CCOGA Altimeter Range Quality, OCOGA Itimeter Range and Backscatter Quality Flags have been set for one or more records. CCCOGA Itimeter Range Quality, OCOGA Itimeter Range and Backscatter Quality Flags have been set for one or more records. CCCCOGA Itimeter Range Altimeter Range Altime	CS_OFFL_SIR_IOPM_2_20200617T221904_20200617T222354_C001		
CS_OFFL_SIR_IOPM_2_20200617T23151_20200617T230530_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Range Quality, OCOG Backscatter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20200617T222400_20200617T222730_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T2000953_20200617T001034_C001 CS_OFFL_SIR_IOPM_2_20200617T000953_20200617T001034_C001 CS_OFFL_SIR_IOPM_2_2	CS_OFFL_SIR_IOPM_2_20200617T223151_20200617T230530_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T000953_20200617T000053_20200617T0	CS_OFFL_SIR_IOPM_2_20200617T231832_20200617T232105_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001 CS_OFFL_SIR_IOPM_2_20200617T000953_20200617T001034_C001 CS_OFFL_SIR_IOPM_2_20200617T000953_20200617T001034_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20200617T235038_20200617T235208_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records. CS_OFFL_SIR_IOPN_2_20200617T000953_20200618T000423_C001 Backscatter Quality for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20200617T235408_20200617T235519_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_IOPM_2_20200617T235858_20200618T000423_C001		
	CS_OFFL_SIR_IOPN_2_20200617T000953_20200617T001034_C001		

CS_OFFL_SIR_IOPN_2_20200617T032509_20200617T032802_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_IOPN_2_20200617T081236_20200617T081359_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_IOPN_2_20200617T083417_20200617T083545_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_IOPN_2_20200617T113103_20200617T113226_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_IOPN_2_20200617T125438_20200617T125643_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_IOPR_2_20200617T003258_20200617T003516_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_IOPR_2_20200617T014458_20200617T014712_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_IOPR_2_20200617T113639_20200617T114428_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_IOPR_2_20200617T130808_20200617T131042_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_IOPR_2_20200617T183936_20200617T183950_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_IOPR_2_20200617T191049_20200617T191302_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_IOPR_2_20200617T211942_20200617T212010_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200617T001137_20200617T001301_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_IOPN_2_20200617T002534_20200617T002719_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_IOPN_2_20200617T005504_20200617T005806_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_IOPN_2_20200617T020445_20200617T020602_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_IOPN_2_20200617T022835_20200617T023139_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_IOPN_2_20200617T023406_20200617T023919_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_IOPN_2_20200617T041313_20200617T041504_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_IOPN_2_20200617T044752_20200617T045054_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_IOPN_2_20200617T050356_20200617T050512_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_IOPN_2_20200617T050713_20200617T050953_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_IOPN_2_20200617T054343_20200617T054947_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_IOPN_2_20200617T064322_20200617T064539_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_IOPN_2_20200617T064626_20200617T064804_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_IOPN_2_20200617T065114_20200617T065237_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_IOPN_2_20200617T080658_20200617T080810_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_IOPN_2_20200617T082249_20200617T082733_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_IOPN_2_20200617T082822_20200617T082944_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_IOPN_2_20200617T090539_20200617T090713_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_IOPN_2_20200617T104523_20200617T104912_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_IOPN_2_20200617T111325_20200617T111521_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_IOPN_2_20200617T112017_20200617T112047_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_IOPN_2_20200617T113103_20200617T113226_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_IOPN_2_20200617T113553_20200617T113639_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_IOPN_2_20200617T114625_20200617T114755_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_IOPN_2_20200617T125438_20200617T125643_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_IOPN_2_20200617T140218_20200617T140631_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_IOPN_2_20200617T141235_20200617T141347_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_IOPN_2_20200617T145221_20200617T145415_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_IOPN_2_20200617T145449_20200617T145611_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_IOPN_2_20200617T154026_20200617T154152_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_IOPN_2_20200617T162850_20200617T163315_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_IOPN_2_20200617T163408_20200617T163520_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_IOPN_2_20200617T164828_20200617T165037_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_IOPN_2_20200617T173257_20200617T173426_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_IOPN_2_20200617T174652_20200617T175215_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_IOPN_2_20200617T180512_20200617T180636_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_IOPN_2_20200617T180947_20200617T181416_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_IOPN_2_20200617T190720_20200617T191049_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_IOPN_2_20200617T194632_20200617T194756_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_IOPN_2_20200617T194846_20200617T195237_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_IOPN_2_20200617T195743_20200617T195823_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_IOPN_2_20200617T200731_20200617T200912_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_IOPN_2_20200617T203827_20200617T204054_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_IOPN_2_20200617T222730_20200617T222912_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_IOPN_2_20200617T233906_20200617T234002_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_IOPR_2_20200616T235915_20200617T000559_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_IOPR_2_20200617T000559_20200617T000848_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_IOPR_2_20200617T003258_20200617T003516_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_IOPR_2_20200617T004545_20200617T004826_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_IOPR_2_20200617T005806_20200617T010143_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_IOPR_2_20200617T012318_20200617T012602_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_IOPR_2_20200617T013744_20200617T014457_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_IOPR_2_20200617T014930_20200617T015653_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_IOPR_2_20200617T015832_20200617T015923_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_IOPR_2_20200617T022431_20200617T022835_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_IOPR_2_20200617T031921_20200617T032353_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_IOPR_2_20200617T040156_20200617T040843_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_IOPR_2_20200617T041943_20200617T042032_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_IOPR_2_20200617T043650_20200617T043741_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_IOPR_2_20200617T045716_20200617T050225_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_IOPR_2_20200617T052621_20200617T052833_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_IOPR_2_20200617T053804_20200617T054159_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_IOPR_2_20200617T055900_20200617T060003_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_IOPR_2_20200617T061405_20200617T061544_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_IOPR_2_20200617T061809_20200617T062126_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_IOPR_2_20200617T062126_20200617T062255_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_IOPR_2_20200617T063852_20200617T064322_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_IOPR_2_20200617T064855_20200617T065114_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_IOPR_2_20200617T073803_20200617T073939_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_IOPR_2_20200617T080810_20200617T080910_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_IOPR_2_20200617T081439_20200617T081707_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_IOPR_2_20200617T090326_20200617T090539_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_IOPR_2_20200617T091702_20200617T091836_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_IOPR_2_20200617T095307_20200617T095506_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_IOPR_2_20200617T095528_20200617T100329_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_IOPR_2_20200617T112255_20200617T112439_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_IOPR_2_20200617T113021_20200617T113103_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_IOPR_2_20200617T113639_20200617T114428_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_IOPR_2_20200617T114544_20200617T114625_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_IOPR_2_20200617T122125_20200617T122502_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_IOPR_2_20200617T123448_20200617T123709_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_IOPR_2_20200617T131634_20200617T132538_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_IOPR_2_20200617T140016_20200617T140218_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_IOPR_2_20200617T141347_20200617T141713_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_IOPR_2_20200617T150129_20200617T150349_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_IOPR_2_20200617T152237_20200617T152718_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_IOPR_2_20200617T155136_20200617T155821_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_IOPR_2_20200617T163520_20200617T164042_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_IOPR_2_20200617T164114_20200617T164241_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_IOPR_2_20200617T170149_20200617T170352_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_IOPR_2_20200617T173043_20200617T173257_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_IOPR_2_20200617T181444_20200617T182124_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_IOPR_2_20200617T193845_20200617T194109_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_IOPR_2_20200617T195237_20200617T195743_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_IOPR_2_20200617T195823_20200617T200020_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_IOPR_2_20200617T203648_20200617T203827_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_IOPR_2_20200617T205010_20200617T205151_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_IOPR_2_20200617T212934_20200617T213817_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_IOPR_2_20200617T213838_20200617T214110_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_IOPR_2_20200617T222912_20200617T223016_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_IOPR_2_20200617T223016_20200617T223151_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_IOPR_2_20200617T230850_20200617T231832_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_IOPR_2_20200617T232106_20200617T232204_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_IOPR_2_20200617T235519_20200617T235735_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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.

Number of products with errors: 209

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

Number of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors: 16

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

(

0

6.3 P2P Auxiliary Data File Usage Check

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

6.4 P2P Auxiliary Correction Error Check

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

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

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

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- > Mean Dynamic Topography: The error value is currently set for products over land and 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_IOP_220200616T231506_20200617T000445_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220200617T000445_20200617T005420_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)
CS_OFFL_SIR_IOP_220200617T005420_20200617T014359_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)
CS_OFFL_SIR_IOP_220200617T014359_20200617T023333_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)
CS_OFFL_SIR_IOP_220200617T023333_20200617T032312_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)
CS_OFFL_SIR_IOP_220200617T032312_20200617T041247_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200617T041247_20200617T050226_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)
CS_OFFL_SIR_IOP_220200617T050226_20200617T055200_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)
CS_OFFL_SIR_IOP_220200617T055200_20200617T064139_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)
CS_OFFL_SIR_IOP_220200617T064139_20200617T073114_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)
CS_OFFL_SIR_IOP_220200617T073114_20200617T082053_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)
CS_OFFL_SIR_IOP_220200617T082053_20200617T091027_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)
CS_OFFL_SIR_IOP_220200617T091027_20200617T100007_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)
CS_OFFL_SIR_IOP_220200617T100007_20200617T104941_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)
CS_OFFL_SIR_IOP_220200617T104941_20200617T113920_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)
CS_OFFL_SIR_IOP_220200617T113920_20200617T122855_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)
CS_OFFL_SIR_IOP_220200617T122855_20200617T131834_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)
CS_OFFL_SIR_IOP_220200617T131834_20200617T140808_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)
CS_OFFL_SIR_IOP_220200617T140808_20200617T145747_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200617T154722_20200617T163701_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220200617T163701_20200617T172635_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)
CS_OFFL_SIR_IOP_220200617T172635_20200617T181614_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220200617T181614_20200617T190549_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)
CS_OFFL_SIR_IOP_220200617T190549_20200617T195528_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)

CS_OFFL_SIR_IOP_2_20200617T195528_20200617T204503_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)
CS_OFFL_SIR_IOP_2_20200617T204503_20200617T213442_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)
CS_OFFL_SIR_IOP_220200617T213442_20200617T2222416_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)
CS_OFFL_SIR_IOP_2_20200617T222416_20200617T231355_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)
CS_OFFL_SIR_IOP_220200617T231355_20200618T000330_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

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:

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: 2

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

Number of products with errors: 24

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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 29

7. IOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	157	157	3	154	0
SIR_IOPR1B	131	109	2	107	0
SIR_IOPN1B	109	131	0	131	0
SIR_IOPM_2	157	157	105	52	0
SIR_IOPR_2	131	109	43	66	0
SIR_IOPN_2	109	131	39	90	2
SIR_IOP_P2P	28	28	0	27	1

7.1 QCC Errors

Number of QCC reports with errors:

9

Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR IOP 2	1	1	1	1							

Test Description Key:							
Abbreviation	Test name	Details					
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7					
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7					
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7					
RL	RangeLongitude 7	Longitude should be between -180E7 and 180E7					

7.2 QCC Warnings

Number of QCC reports with warnings

2298

		Total number of occurrences of each warning								
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD			
SIR_IOPM1B	154	0	0	0	0	0	0			
SIR_IOPM_2	0	0	37	40	0	40	0			
SIR_IOPN1B	107	0	0	0	0	0	0			
SIR IOPN 2	0	0	6	33	4	25	30			

SIR_IOPR1B	128	0	0	0	0	0	0
SIR_IOPR_2	0	2	42	56	0	41	35
Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	35	35	0	0	0	0	30
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	19	0	0	29	0	36	0
SIR_IOPR1B	0	0	0	0	0	0	0
CID IODD 3	20	0	F0	0	67	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	0	7	23	0	4	31
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	32	19	38	54	31	27
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	59	0	4	76	47	5	47

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPM1B	0	0	0	0	0	0	
SIR_IOPM_2	0	3	0	0	0	0	
SIR_IOPN1B	0	0	2	0	44	0	
SIR_IOPN_2	30	9	0	4	0	0	
SIR_IOPR1B	0	0	0	0	131	6	
SIR_IOPR_2	62	5	0	7	0	0	

I	Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
	SIR_IOP_2_	11		28	4	28	16	28

Product Type	RPEPOPFDPLRMSINNCD	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOP_2_	17		22	20	28	18	23
			1				l .

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHLPQWNCDF	•	•	-
SIR_IOP_2_	28	18	11	28			

est Description Key:						
Abbreviation	Test name	Details				
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
OHHMOOR IndexOf1Hzin20HzMappingOutOfRange		The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude between -70 and 70 degrees				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)				
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter				

7.3 Missing QCC Reports