

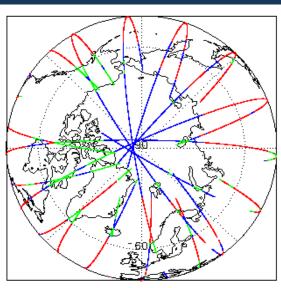
## 1. Overview

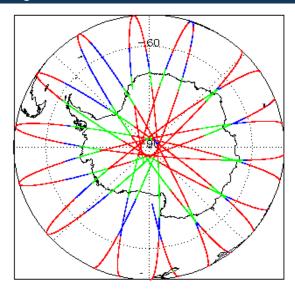
Report Production:	02-Jun-2020		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data		

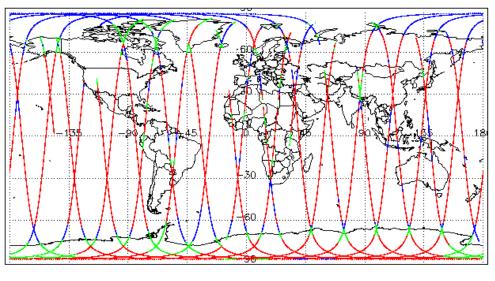
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

Mission / Instru	ment News
31-May-2020	None
01-Jun-2020	None
02-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
Star Tracker(s) in use:	Star Tracker 1

# 4. NOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

#### 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.

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

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:

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#### 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 NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200601T201917_20200601T202712_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20200601T234418_20200601T234503_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

## 4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

16

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200601T071650_20200601T071916_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200601T103323_20200601T103354_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200601T172314_20200601T173830_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200601T084204_20200601T084652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200601T101647_20200601T101705_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200601T132908_20200601T133035_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200601T142222_20200601T142631_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200601T183151_20200601T183352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T033342_20200601T033508_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T034512_20200601T034911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T042117_20200601T042815_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T070503_20200601T070620_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T170435_20200601T170652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T183352_20200601T184041_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T201216_20200601T201734_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200601T224835_20200601T225038_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. NOP Level 2 Data Quality Check

## 5.1 L2 Product Format Check

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

Number of products with errors:

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

## 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

## 5.4 L2 Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > Mean Sea Surface: 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.

lumber of products with errors:

Product **Test Failed** Description Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS\_OFFL\_SIR\_NOPM\_2\_20200601T200738\_20200601T200820\_C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1) and the tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20200601T010752\_20200601T010917\_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T011438\_20200601T011746\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T024735\_20200601T024841\_C001 Topography (1) Γοροgraphy height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20200601T042816 20200601T043050 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T052323\_20200601T052435\_C001 Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tide height Tide (GOT) (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20200601T060345 20200601T060936 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T070251\_20200601T070503\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20200601T074540\_20200601T074723\_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20200601T075601\_20200601T075803\_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T084204\_20200601T084653\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T093359\_20200601T093617\_C001 Topography (solution 1) and the tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20200601T110611 20200601T110842 C001 Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T124436\_20200601T124748\_C001 Topography (solution 1) and the tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20200601T132908 20200601T133035 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height Topography (1), Total Geocentric Ocean CS\_OFFL\_SIR\_NOPN\_2\_20200601T142222\_20200601T142631\_C001 Tide (GOT) solution 1: GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T143204\_20200601T143329\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20200601T151141 20200601T151326 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Total Geocentric Ocean Tide height (solution 1: CS\_OFFL\_SIR\_NOPN\_2\_20200601T160956\_20200601T161139\_C001 Total Geocentric Ocean Tide (GOT) GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20200601T174749 20200601T175005 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocear Topography height (solution 1) and the Total Geocentric Ocean Tide height CS OFFL SIR NOPN 2 20200601T183151 20200601T183352 C001 Tide (GOT) (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or CS\_OFFL\_SIR\_NOPN\_2\_20200601T191804\_20200601T191956\_C001 Mean Dynamic Topography (1) nore records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20200601T192643 20200601T193125 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T200820\_20200601T201215\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T205810\_20200601T210041\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPN\_2\_20200601T210800\_20200601T210947\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPR\_2\_20200601T101706\_20200601T102230\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPR 2 20200601T114515 20200601T114709 C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPR\_2\_20200601T115613\_20200601T120408\_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPR\_2\_20200601T133435\_20200601T134350\_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS\_OFFL\_SIR\_NOPR\_2\_20200601T151542\_20200601T151808\_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPR 2 20200601T151808 20200601T152330 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPR 2 20200601T165438 20200601T170019 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPR 2 20200601T183352 20200601T184041 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS\_OFFL\_SIR\_NOPR\_2\_20200601T201216\_20200601T201735\_C001 Topography (1) Topography height (solution 1) for one or more records

## 5.5 L2 Measurement Confidence Data Check

CS\_OFFL\_SIR\_NOPR\_2\_20200601T234504\_20200601T234700\_C001

Mean Dynamic Topography (1)

There is an error with the Mean Dynamic Topography height for one or

more records

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200601T201917_20200601T202711_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20200601T234418_20200601T234503_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

Number of products with errors: Product Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20200531T234135\_20200601T001527\_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS\_OFFL\_SIR\_NOPM\_2\_20200601T002833\_20200601T003012\_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20200601T005656 20200601T005729 C001 Backscatter Quality for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS\_OFFL\_SIR\_NOPM\_2\_20200601T005926\_20200601T010612\_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG CS OFFL SIR NOPM 2 20200601T012111 20200601T014246 C001 Altimeter Range and Backscatter Quality set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH CS\_OFFL\_SIR\_NOPM\_2\_20200601T014532\_20200601T015435\_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR NOPM 2 20200601T020700 20200601T021102 C001 Altimeter Range and Backscatter Quality set for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS\_OFFL\_SIR\_NOPM\_2\_20200601T021451\_20200601T021624\_C001 Backscatter Quality 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 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG CS\_OFFL\_SIR\_NOPM\_2\_20200601T022655\_20200601T023141\_C001 Altimeter Range and Backscatter Quality set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Ocean Altimeter Range, SSHA, SWH CS\_OFFL\_SIR\_NOPM\_2\_20200601T023330\_20200601T024452\_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG CS OFFL SIR NOPM 2 20200601T030031 20200601T030539 C001 Altimeter Range and Backscatter Quality 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 Ocean Altimeter Range, SSHA, SWH CS\_OFFL\_SIR\_NOPM\_2\_20200601T030548\_20200601T031239\_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR NOPM 2 20200601T031348 20200601T033222 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_NOPM\_2\_20200601T035014\_20200601T035651\_C001 Altimeter Range and Backscatter Quality 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 Ocean Altimeter Range, SSHA, SWH CS OFFL SIR NOPM 2 20200601T035701 20200601T042116 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20200601T043050 20200601T043243 C001 Backscatter Quality for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20200601T043539 20200601T043715 C001 **Backscatter Quality** for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS\_OFFL\_SIR\_NOPM\_2\_20200601T043946\_20200601T044553\_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality 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 Ocean Altimeter Range, SSHA, SWH CS OFFL SIR NOPM 2 20200601T045333 20200601T045704 C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS OFFL SIR NOPM 2 20200601T050145 20200601T050842 C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set CS OFFL SIR NOPM 2 20200601T052445 20200601T052841 C001 **Backscatter Quality** for one or more records.

DOIL 3RT NOM 2 2000001100010 2000011000140 COID  DOIL 3RT NOM 2 2000001100010 2000011000140 COID  DOIL 3RT NOM 2 2000001100010 2000011000140 COID  DOIL 3RT NOM 2 2000001100010 200001100010 20000011000140 COID  DOIL 3RT NOM 2 2000001100010 200001100010 20000011000140 COID  DOIL 3RT NOM 2 2000001100010 2000001100010 2000001100010 COID  DOIL 3RT NOM 2 20000011000010 COID  DOIL 3RT NOM 2 200000110000010 COID  DOIL 3RT NOM 2 200000110000010 COID  DOIL 3RT NOM 2 2000001100000100	CS_OFFL_SIR_NOPM_2_20200601T053024_20200601T053606_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.
### COLOR SINUS PROCESS   200001110034 (20000110035	CS_OFFL_SIR_NOPM_2_20200601T053709_20200601T054549_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFF_BIR_NOM_2_2000001100189_2000001100189_000001100189_0000011100189_000000189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000001100189_000000189_0000001100189_0000001100189_0000001100189_0000001100189_0000001100189_0000001100189_0000001100189_0000001100189_00000001100189_00000001100189_00000001100189_0000000000	CS_OFFL_SIR_NOPM_2_20200601T055209_20200601T060344_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. OFFL. SIR. NOPM. 2. 20200811107082   20000011002034   CO. OFFL. SIR. NOPM. 2. 20200811107082   20000011002034   CO. OFFL. SIR. NOPM. 2. 20200811070707_20000011070342   CO. OFFL. SIR. NOPM. 2. 20200811070707_20000011070344   CO. OFFL. SIR. NOPM. 2. 20200811070707_20000011070321   CO. OFFL. SIR. NOPM. 2. 20200811070707_2000001107032   CO. OFFL. SIR. NOPM. 2. 20200811070707_20000011107032   CO. OFFL. SIR. NOPM. 2. 20200811110707_20000011107032   CO. OFFL. SIR. NOPM. 2. 2020081	CS_OFFL_SIR_NOPM_2_20200601T061913_20200601T062538_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dispute Fig. No. M. 2. 20000011701937_2000001170193.0000  Den Allender Range and Balanceard Caulary (Policy Allender Range) and Policy Allender Range and Balanceard Caulary (Policy Allender Range) and Balanceard Caulary (Policy Allender Range) and Balanceard Caulary (Policy Allender Range) and Balanceard Caulary (Policy Caulary (Policy Caulary Ca	CS_OFFL_SIR_NOPM_2_20200601T062648_20200601T063332_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_NOPM_2_2020091119479_000011195790_0001  CS_OFFL_SR_NOPM_2_20200911197959_2000011195790_0001  CS_OFFL_SR_NOPM_2_20200911197959_20000011195790_0001  CS_OFFL_SR_NOPM_2_20200911197959_2000001109590_0001  CS_OFFL_SR_NOPM_2_20200911197959_2000001109590_0001  CS_OFFL_SR_NOPM_2_2020091119599_2000001109590_0001  CS_OFFL_SR_NOPM_2_20200901109599_000001109590_0001  CS_OFFL_SR_NOPM_2_20200901109599_000001109590_0001  CS_OFFL_SR_NOPM_2_20200901109599_000001109590_0001  CS_OFFL_SR_NOPM_2_20200901109599_000001109590_0001  CS_OFFL_SR_NOPM_2_20200901109599_000001109590_0001  CS_OFFL_SR_NOPM_2_20200901109599_000001109590_0001  CS_OFFL_SR_NOPM_2_20200901109599_000001109590_0001  CS_OFFL_SR_NOPM_2_202009011195999_000001109590_0001  CS_OFFL_SR_NOPM_2_202009011195999_000001109590_0001  CS_OFFL_SR_NOPM_2_202009011195999_000001119590_0001  CS_OFFL_SR_NOPM_2_202009011195999_000001119590_0001  CS_OFFL_SR_NOPM_2_202009011195994_0000001119590_0001  CS_OFFL_SR_NOPM_2_202009011195994_000000	CS_OFFL_SIR_NOPM_2_20200601T063512_20200601T065044_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GB_OFFL_SIR_NOPM_2_20000911074592_20000911102414_C001  CB_OFFL_SIR_NOPM_2_20000911074009_20000911074414_C001  CB_OFFL_SIR_NOPM_2_20000911074009_20000911074414_C001  CB_OFFL_SIR_NOPM_2_20000911074009_20000911074414_C001  CB_OFFL_SIR_NOPM_2_20000911074009_20000911074414_C001  CB_OFFL_SIR_NOPM_2_20000911074009_20000911074414_C001  CB_OFFL_SIR_NOPM_2_20000911074009_20000911074000_C001  CB_OFFL_SIR_NOPM_2_20000911074009_20000911070400_C001  CB_OFFL_SIR_NOPM_2_20000911074009_200009110000090_C001  CB_OFFL_SIR_NOPM_2_20000911074000_C001  CB_OFFL_SIR_NOPM_2_20000911074000_C001  CB_OFFL_SIR_NOPM_2_20000911074000_C001  CB_OFFL_SIR_NOPM_2_20000911000000_20000011000000_C001  CB_OFFL_SIR_NOPM_2_20000911000000_20000011000000_C001  CB_OFFL_SIR_NOPM_2_20000911000000_2000000110000000000000	CS_OFFL_SIR_NOPM_2_20200601T071207_20200601T071519_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20000011107220_2000001107414_C001  CS_OFFL_SIR_NOPM_2_20000011077227_20000011074414_C001  CS_OFFL_SIR_NOPM_2_20000011077227_20000011074414_C001  CS_OFFL_SIR_NOPM_2_20000011077227_20000011074414_C001  CS_OFFL_SIR_NOPM_2_20000011077227_20000011074000_C001  CS_OFFL_SIR_NOPM_2_20000011077227_20000011072000_C001  CS_OFFL_SIR_NOPM_2_20000011077227_20000011072000_C001  CS_OFFL_SIR_NOPM_2_20000011077227_20000011072000_C001  CS_OFFL_SIR_NOPM_2_20000011072000_C001  CS_OFFL_SIR_NOPM_2_200000111072000_C001  CS_OFFL_SIR_NOPM_2_2000000111072000_C001  CS_OFFL_SIR_NOPM_2_2000000111072000_C001  CS_OFFL_SIR_NOPM_2_2000000111072000_C001  CS_OFFL_SIR_NOPM_2_2000000111072000_C001  CS_OFFL_SIR_NOPM_2_2000000111072000_C001  CS_OFFL_SIR_NOPM_2_2000000111072000_C001  CS_OFFL_SIR_NOPM_2_2000000111107200_C001  CS_OFFL_SIR_NOPM_2_2000000111107200_C001	CS_OFFL_SIR_NOPM_2_20200601T071650_20200601T071916_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGO Allmeter Range and Backscatter Quality Flags have been Allmeter Range and Backscatter Quality Flags have been set or on once records.  CS_OFFL_SIR_NOPM_2_20200001T075832_2020001T075900_C001  CS_OFFL_SIR_NOPM_2_20200001T075832_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T075832_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T082050_C001  CS_OFFL_SIR_NOPM_2_20200001T094157_C001  CS_OFFL_SIR_NOPM_2_20200001T094224_20200001T100220_C001  CS_OFFL_SIR_NOPM_2_20200001T094224_20200001T100220_C001  CS_OFFL_SIR_NOPM_2_20200001T094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T1094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T1094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T1094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T1094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T1094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T1094224_20200001T100230_C001  CS_OFFL_SIR_NOPM_2_20200001T10334_C001  CS_OFFL_SIR_NOPM_2_20200001T10334_C001  CS_OFFL_SIR_NOPM_2_20200001T10334_C001  CS_OFFL_SIR_NOPM_2_20200001T10334_C001  CS_OFFL_SIR_NOPM_2_20200001T110334_C001  CS_OFFL_SIR_NOPM_2_20200001T110332_20200001T111434_C001  CS_OFFL_SIR_NOPM_2_20200001T110332_20200001T111434_C001  CS_OFFL_SIR_NOPM_2_20200001T110332_20200001T111434_C001  CS_OFFL_SIR_NOPM_2_20200001T110332_20200001T111434_C001  CS_OFFL_SIR_NOPM_2_20200001T110333_20200001T111333_20200001T111434_C001  CS_OFFL_SIR_NOPM_2_20200001T110332_20200001T111333_20200001T111333_20200001T111333_20200001T111333_20200001T111333_20200001T111333_20200001T111333_20200001T11333_20200001T11333_20200001T11333_20200001T11333_20200001T11333_20200001T11333_202000001T11333_20200001T11333_20200001T11333_20200001T11333_20200000	CS_OFFL_SIR_NOPM_2_20200601T072039_20200601T072527_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200691T075332_20200801T092050_001  CS_OFFL_SIR_NOPM_2_20200691T09332_20200801T09210_001  CS_OFFL_SIR_NOPM_2_20200691T093758_20200801T09210_001  CS_OFFL_SIR_NOPM_2_20200691T093758_20200801T094157_001  CS_OFFL_SIR_NOPM_2_20200691T093758_20200801T094157_001  CS_OFFL_SIR_NOPM_2_20200691T093758_20200801T094157_001  CS_OFFL_SIR_NOPM_2_20200691T093758_20200801T094157_001  CS_OFFL_SIR_NOPM_2_20200801T093758_20200801T094157_001  CS_OFFL_SIR_NOPM_2_20200801T1093334_001  CS_OFFL_SIR_NOPM_2_20200801T1093334_001  CS_OFFL_SIR_NOPM_2_20200801T1093332_2020801T1103334_001  CS_OFFL_SIR_NOPM_2_20200801T109315_20200801T110345_001  CS_OFFL_SIR_NOPM_2_20200801T109355_20200801T110345_001  CS_OFFL_SIR_NOPM_2_20200801T110355_20200801T110345_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T110345_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T110342_20200801T111520_001  CS_OFFL_SIR_NOPM_2_20200801T115335_2020801T115345_0011  CS_OFFL_SIR_NOPM_2_20200801T115335_2020801T115446_001  CS_OFFL_SIR_NOPM_2_20200801T115335_2020801T115446_0011  CS_OFFL_SIR_NOPM_2_20200801T115335_2020801T115446_0011  CS_OFFL_SIR_NOPM_2_20200801T115335_0001  CS_OFFL_SIR_NOPM_2_20200801T115446_000010T13535_001  CS_OFFL_SIR_NOPM_2_20200801T115335_0001  C	CS_OFFL_SIR_NOPM_2_20200601T072827_20200601T074414_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flasocasteric Quality, COCG Altimeter Range and Backscatter Quality Flags have been after more more records.  CS_OFFL_SIR_NOPM_2_20200601T08901_20200601T092310_CO01  CS_OFFL_SIR_NOPM_2_20200601T089758_20200601T092310_CO01  CS_OFFL_SIR_NOPM_2_20200601T093758_20200601T09210_CO01  CS_OFFL_SIR_NOPM_2_20200601T093758_20200601T09220_CO01  CS_OFFL_SIR_NOPM_2_20200601T093758_20200601T09220_CO01  CS_OFFL_SIR_NOPM_2_20200601T093758_20200601T09354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T109354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T109354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T109354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T109354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T109354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T109354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T109354_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T110904_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T110904_CO01  CS_OFFL_SIR_NOPM_2_20200601T1093758_20200601T110904_CO01  CS_OFFL_SIR_NOPM_2_20200601T109376_20200601T110904_CO01  CS_OFFL_SIR_NOPM_2_20200601T110942_20200601T1113620_CO01  CS_OFFL_SIR_NOPM_2_20200601T110942_20200601T1113620_CO01  CS_OFFL_SIR_NOPM_2_20200601T110942_20200601T1113620_CO01  CS_OFFL_SIR_NOPM_2_20200601T111620_20200601T1113620_CO01  CCS_OFFL_SIR_NOPM_2_20200601T111520_CO01  CCS_OFFL_SIR_NOPM_2_20200601T111520_CO01  CCS_OFFL_SIR_NOPM_2_20200601T111520_CO01  CCS_OFFL_SIR_NOPM_2_20200601T111520_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1152047_20200601T115206_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T115206_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T115206_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T115206_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T115206_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T115206_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T115206_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T1120706_CO01  CCS_OFFL_SIR_NOPM_2_20200601T1120707_20200601T1120706_CO01  CCS_OFFL_SIR_NOPM_2_20200	CS_OFFL_SIR_NOPM_2_20200601T074723_20200601T075600_C001		
and Backscatter Quality Flags have been affected that the COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200601T093768_20200601T094157_CO01  CS_OFFL_SIR_NOPM_2_20200601T094224_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T094224_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T094224_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T103232_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T103232_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T103232_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T103232_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T103232_20200601T100229_CO01  CS_OFFL_SIR_NOPM_2_20200601T10329_CO0001T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T103313_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T103313_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T103313_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T110322_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T110323_20200601T11320_CO01  CS_OFFL_SIR_NOPM_2_20200601T110323_20200601T11320_CO01  CS_OFFL_SIR_NOPM_2_20200601T110323_20200601T11320_CO01  CS_OFFL_SIR_NOPM_2_20200601T110323_20200601T11320_CO01  CS_OFFL_SIR_NOPM_2_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T110204_CO01  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T11200_CO01  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T1200_CO01  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T12000_CO01  CS	CS_OFFL_SIR_NOPM_2_20200601T075832_20200601T082056_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 and the OCOG Altimeter Range and Backscatter Quality Flags have been and backcatter Quality COCG 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 after one or more records.  CS_OFFL_SIR_NOPM_2_20200601T116842_20200601T11434_C001  CS_OFFL_SIR_NOPM_2_20200601T1162_20200601T11382_0011  CS_OFFL_SIR_NOPM_2_20200601T1152_001  CS_OFFL_SIR_NOPM_2_20200601T1152_001  CS_OFFL_SIR_NOPM_2_20200601T1152_001  CS_OFFL_SIR_NOPM_2_20200601T1152_001  CS_OFFL_SIR_NOPM_2_20200601T112_001  CS_OFFL_SIR_NOPM_2_202006	CS_OFFL_SIR_NOPM_2_20200601T085901_20200601T092310_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality CDG Altimeter Range and Backscatter Quality CoG Altimeter Range and Backscatter Quality Range Range Range Altimeter Range and Backscatter Quality Range Range Range Range Altimeter Range and Backscatter Quality Range Range Range Range Altimeter Range Rang	CS_OFFL_SIR_NOPM_2_20200601T093758_20200601T094157_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range, and Backscatter Quality Flags have been at the CS_OFFL_SIR_NOPM_2_20200601T103515_20200601T110204_CO11  CS_OFFL_SIR_NOPM_2_20200601T110842_20200601T1110204_CO11  CS_OFFL_SIR_NOPM_2_20200601T110842_20200601T111343_CO01  CS_OFFL_SIR_NOPM_2_20200601T110842_20200601T1113820_CO01  CS_OFFL_SIR_NOPM_2_20200601T1115333_20200601T115320_CO01  CS_OFFL_SIR_NOPM_2_20200601T115333_20200601T115320_CO01  CS_OFFL_SIR_NOPM_2_20200601T115333_20200601T115320_CO01  CS_OFFL_SIR_NOPM_2_20200601T1120767_20200601T1120700_CO01  CS_OFFL_SIR_NOPM_2_20200601T1120700_CO01  CS_OFFL_SIR_NOPM_2_20200601T120700_CO01  CS_OFFL_SIR_NOPM_2_20200601T	CS_OFFL_SIR_NOPM_2_20200601T094224_20200601T100229_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 at 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 Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range, SSHA, SWH	CS_OFFL_SIR_NOPM_2_20200601T103323_20200601T103354_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20200601T11620_20200601T113820_C001  CS_OFFL_SIR_NOPM_2_20200601T11620_20200601T113820_C001  CS_OFFL_SIR_NOPM_2_20200601T115333_20200601T115428_C001  CS_OFFL_SIR_NOPM_2_20200601T115333_20200601T115428_C001  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T124102_C001  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T124102_C001  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T125305_C001  CS_OFFL_SIR_NOPM_2_20200601T125348_20200601T125745_C001  CS_OFFL_SIR_NOPM_2_20200601T125548_20200601T125745_C001  CS_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130036_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130036_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130036_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130036_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130036_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130036_20200601T1300552_C001  CS_OFFL_SIR_NOPM_2_20200601T130036_20200601T1300552_C001  COCAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altim	CS_OFFL_SIR_NOPM_2_20200601T103515_20200601T110204_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 Altimeter Range Range Range Altimeter Rang	CS_OFFL_SIR_NOPM_2_20200601T110842_20200601T111434_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T124102_C001  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T124102_C001  CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T125305_C001  CS_OFFL_SIR_NOPM_2_20200601T125305_C001  CS_OFFL_SIR_NOPM_2_20200601T125548_20200601T125305_C001  CS_OFFL_SIR_NOPM_2_20200601T125548_20200601T125745_C001  CS_OFFL_SIR_NOPM_2_20200601T125548_20200601T125745_C001  CS_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130306_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T13006_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T130	CS_OFFL_SIR_NOPM_2_20200601T111620_20200601T113820_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records.  CS_OFFL_SIR_NOPM_2_20200601T124749_20200601T125305_C001  CS_OFFL_SIR_NOPM_2_20200601T125749_20200601T125305_C001  CS_OFFL_SIR_NOPM_2_20200601T125749_C001  CS_OFFL_SIR_NOPM_2_20200601T125749_C001  CS_OFFL_SIR_NOPM_2_20200601T125749_C001  CS_OFFL_SIR_NOPM_2_20200601T125749_C001  CS_OFFL_SIR_NOPM_2_20200601T125749_C001  CS_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001  CS_OFFL_SIR_NOPM_2_20200601T1303036_20200601T133435_C001  CS_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_C001  CS_OFFL_SIR_NOPM_2_20200601T133036_20200601T135552_C001  CS_OFFL_SIR_NOPM_2_20200601T134703_20200601T135552_C001  CS_OFFL_SIR_NOPM_2_20200601T134703_20200601T135552_C001  CS_OFFL_SIR_NOPM_2_20200601T134703_20200601T135552_C001  CS_OFFL_SIR_NOPM_2_20200601T134703_20200601T135552_C001  CCG Altimeter Range Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been 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 and backscatter Quali	CS_OFFL_SIR_NOPM_2_20200601T115333_20200601T115428_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range a	CS_OFFL_SIR_NOPM_2_20200601T120707_20200601T124102_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200601T125548_20200601T125745_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001  Cs_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_C001  Cs_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_C001  Cs_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_C001  Cs_OFFL_SIR_NOPM_2_20200601T133036_20200601T135552_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and backsc	CS_OFFL_SIR_NOPM_2_20200601T124749_20200601T125305_C001		
CS_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_C001  Cs_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_C001  Cs_OFFL_SIR_NOPM_2_20200601T134703_20200601T135552_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20200601T125548_20200601T125745_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_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 set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality Flags ha	CS_OFFL_SIR_NOPM_2_20200601T125944_20200601T130152_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200601T134703_20200601T135552_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20200601T133036_20200601T133435_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20200601T134703_20200601T135552_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20200601T135839_20200601T142014_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality	set for one or more records.
CS_OFFL_SIR_NOPM_2_20200601T142632_20200601T142749_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_NOPM_2_20200601T142757_20200601T143203_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_NOPM_2_20200601T143518_20200601T144708_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_NOPM_2_20200601T144857_20200601T145514_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_NOPM_2_20200601T145649_20200601T150131_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_NOPM_2_20200601T152641_20200601T155916_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_NOPM_2_20200601T160133_20200601T160648_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_NOPM_2_20200601T160708_20200601T160955_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_NOPM_2_20200601T161748_20200601T164802_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_NOPM_2_20200601T170653_20200601T172109_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_NOPM_2_20200601T172314_20200601T173830_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_NOPM_2_20200601T174044_20200601T174545_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_NOPM_2_20200601T175509_20200601T180523_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_NOPM_2_20200601T181143_20200601T182415_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_NOPM_2_20200601T185851_20200601T190133_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_NOPM_2_20200601T190313_20200601T191728_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_NOPM_2_20200601T192521_20200601T192530_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_NOPM_2_20200601T193151_20200601T200512_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_NOPM_2_20200601T203444_20200601T205627_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_NOPM_2_20200601T210435_20200601T210759_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_NOPM_2_20200601T211055_20200601T213630_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_NOPM_2_20200601T213641_20200601T213911_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_NOPM_2_20200601T221055_20200601T223630_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_NOPM_2_20200601T223824_20200601T224326_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_NOPM_2_20200601T224334_20200601T224701_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_NOPM_2_20200601T225038_20200601T232435_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_NOPN_2_20200601T004818_20200601T004836_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_NOPN_2_20200601T082240_20200601T082556_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_NOPN_2_20200601T111434_20200601T111600_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_NOPN_2_20200601T124436_20200601T124748_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_NOPN_2_20200601T164810_20200601T164948_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_NOPN_2_20200601T202712_20200601T202817_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_NOPN_2_20200601T202902_20200601T203234_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_NOPN_2_20200601T224327_20200601T224333_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_NOPN_2_20200601T232655_20200601T232806_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_NOPN_2_20200601T233544_20200601T233545_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_NOPR_2_20200601T015436_20200601T015733_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_NOPR_2_20200601T053607_20200601T053709_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_NOPR_2_20200601T082839_20200601T082859_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_NOPR_2_20200601T114515_20200601T114709_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_NOPR_2_20200601T115613_20200601T120408_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_NOPR_2_20200601T130153_20200601T130400_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_NOPR_2_20200601T160648_20200601T160654_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.

Number of products with errors: 87

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200601T003105_20200601T003227_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_NOPN_2_20200601T003640_20200601T003704_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_NOPN_2_20200601T003736_20200601T003941_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_NOPN_2_20200601T022327_20200601T022449_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_NOPN_2_20200601T024735_20200601T024841_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_NOPN_2_20200601T034453_20200601T034512_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_NOPN_2_20200601T043243_20200601T043539_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_NOPN_2_20200601T050845_20200601T051012_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_NOPN_2_20200601T055103_20200601T055208_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_NOPN_2_20200601T070620_20200601T070849_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_NOPN_2_20200601T071045_20200601T071206_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_NOPN_2_20200601T074540_20200601T074723_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_NOPN_2_20200601T075601_20200601T075803_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_NOPN_2_20200601T082240_20200601T082556_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_NOPN_2_20200601T084204_20200601T084653_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_NOPN_2_20200601T092515_20200601T092638_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_NOPN_2_20200601T093359_20200601T093617_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_NOPN_2_20200601T100634_20200601T100740_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_NOPN_2_20200601T101647_20200601T101705_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_NOPN_2_20200601T110447_20200601T110607_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_NOPN_2_20200601T110611_20200601T110842_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_NOPN_2_20200601T115314_20200601T115332_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_NOPN_2_20200601T120408_20200601T120514_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_NOPN_2_20200601T120547_20200601T120707_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_NOPN_2_20200601T130515_20200601T130519_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_NOPN_2_20200601T142222_20200601T142631_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_NOPN_2_20200601T151141_20200601T151326_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_NOPN_2_20200601T155957_20200601T160133_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_NOPN_2_20200601T164810_20200601T164948_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_NOPN_2_20200601T174749_20200601T175005_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_NOPN_2_20200601T191804_20200601T191956_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.

	Ocean Altimeter Range, SSHA, SWH	L
CS_OFFL_SIR_NOPN_2_20200601T200820_20200601T201215_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200601T201735_20200601T201808_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_NOPN_2_20200601T202712_20200601T202817_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_NOPN_2_20200601T202902_20200601T203234_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_NOPN_2_20200601T205810_20200601T210041_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_NOPN_2_20200601T220137_20200601T220156_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_NOPN_2_20200601T224701_20200601T224835_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_NOPN_2_20200601T232655_20200601T232806_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_NOPN_2_20200601T235719_20200601T235914_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_NOPR_2_20200601T001700_20200601T001735_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_NOPR_2_20200601T003228_20200601T003247_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_NOPR_2_20200601T011746_20200601T012111_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_NOPR_2_20200601T021121_20200601T021425_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_NOPR_2_20200601T024452_20200601T024734_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_NOPR_2_20200601T033239_20200601T033243_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_NOPR_2_20200601T033342_20200601T033508_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_NOPR_2_20200601T033702_20200601T033832_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_NOPR_2_20200601T034512_20200601T034911_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_NOPR_2_20200601T042117_20200601T042815_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_NOPR_2_20200601T054550_20200601T054803_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_NOPR_2_20200601T061830_20200601T061913_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_NOPR_2_20200601T063333_20200601T063512_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_NOPR_2_20200601T070503_20200601T070620_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_NOPR_2_20200601T070849_20200601T070945_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_NOPR_2_20200601T071519_20200601T071650_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_NOPR_2_20200601T082056_20200601T082150_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_NOPR_2_20200601T082202_20200601T082240_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_NOPR_2_20200601T092310_20200601T092514_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_NOPR_2_20200601T093618_20200601T093758_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_NOPR_2_20200601T101706_20200601T102230_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_NOPR_2_20200601T114332_20200601T114408_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_NOPR_2_20200601T114515_20200601T114709_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_NOPR_2_20200601T115028_20200601T115245_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_NOPR_2_20200601T115613_20200601T120408_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_NOPR_2_20200601T120514_20200601T120547_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_NOPR_2_20200601T124102_20200601T124436_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_NOPR_2_20200601T125417_20200601T125548_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_NOPR_2_20200601T133435_20200601T134350_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_NOPR_2_20200601T142015_20200601T142221_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_NOPR_2_20200601T151542_20200601T151808_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_NOPR_2_20200601T151808_20200601T152330_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_NOPR_2_20200601T152438_20200601T152640_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_NOPR_2_20200601T161139_20200601T161747_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_NOPR_2_20200601T165438_20200601T170019_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_NOPR_2_20200601T170034_20200601T170201_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_NOPR_2_20200601T174600_20200601T174605_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_NOPR_2_20200601T175006_20200601T175509_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_NOPR_2_20200601T180931_20200601T181142_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_NOPR_2_20200601T182415_20200601T182453_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_NOPR_2_20200601T182633_20200601T182744_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_NOPR_2_20200601T183352_20200601T184041_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_NOPR_2_20200601T190134_20200601T190312_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_NOPR_2_20200601T201216_20200601T201735_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200601T205627_20200601T205809_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200601T224835_20200601T225038_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200601T232621_20200601T232654_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (1 Hz & 1Hz PLRM)

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:

•

## 5.7 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 falling at ocean/ land boundaries, but this is expected.

140

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 NOPR and NOPN products over sea ice, but this is to be expected.

Number of products with errors: