







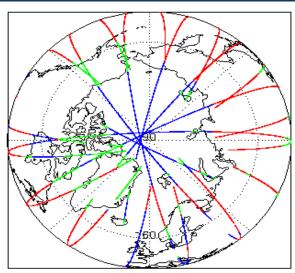
# 1. Overview

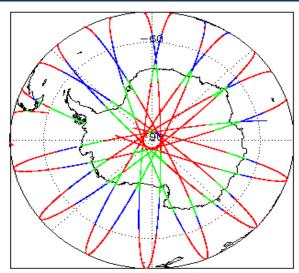
Report Production:	22-Jul-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

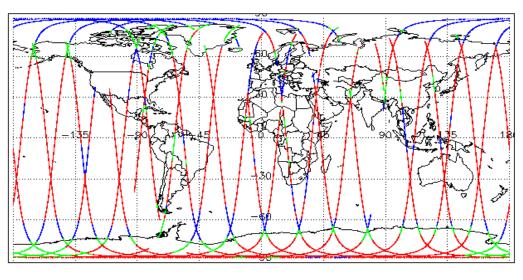
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement 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 / Instrument News	
18-Jul-2019	None
19-Jul-2019	None
20-Jul-2019	Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. NOP 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 pert 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:

Ω

### 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 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:

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190719T133701_20190719T134345_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190719T231532_20190719T231945_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:

10

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190719T063124_20190719T063616_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190719T094628_20190719T100208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190719T215152_20190719T220858_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T014931_20190719T015007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T015131_20190719T015156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T082827_20190719T082926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T100214_20190719T100511_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T100625_20190719T100840_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T151020_20190719T151048_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T191643_20190719T192202_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T214633_20190719T214746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T214924_20190719T215152_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T222414_20190719T222516_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T232555_20190719T232817_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190719T232841_20190719T233024_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190719T172729_20190719T173105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190719T183202_20190719T183930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190719T183939_20190719T184216_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190719T204509_20190719T205119_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:

0

### 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

# 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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### 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.
- > 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.

Number of products with errors:

39

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20190719T101533_20190719T103619_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_NOPM_2_20190719T114248_20190719T114304_C001	Topography (1), Total Geocentric Ocean Tide (GOT)	Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPM_2_20190719T133514_20190719T133546_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T001645_20190719T001747_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T014931_20190719T015007_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T015708_20190719T015735_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T024116_20190719T024328_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 the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190719T041920_20190719T042235_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T055807_20190719T060126_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T060650_20190719T060815_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T074501_20190719T074639_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T082827_20190719T082926_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T092239_20190719T092450_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T100625_20190719T100840_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T105313_20190719T105444_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T114305_20190719T114704_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T124229_20190719T124412_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T163830_20190719T164056_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T173105_20190719T173230_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T173741_20190719T174045_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 the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190719T191131_20190719T191428_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T191643_20190719T192202_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T200739_20190719T201051_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20190719T205119_20190719T205354_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T214633_20190719T214746_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T214924_20190719T215152_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T222414_20190719T222516_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20190719T222621_20190719T222952_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20190719T232555_20190719T232817_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 height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20190719T015156_20190719T015707_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20190719T031952_20190719T032154_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20190719T033056_20190719T033900_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20190719T050929_20190719T051816_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20190719T065027_20190719T065811_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20190719T082926_20190719T083509_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20190719T100840_20190719T101533_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_NOPR_2_20190719T114704_20190719T115227_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20190719T152059_20190719T152144_C001	IMean 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190719T133701_20190719T134345_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_20190719T231532_20190719T231945_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:

Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags has for one or more records.  OCS_OFFL_SIR_NOPM_2_20190719T010122_20190719T010317_C001  CS_OFFL_SIR_NOPM_2_20190719T010122_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T01035_20190719T022030_C001  CS_OFFL_SIR_NOPM_2_20190719T020608_20190719T022030_C001  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T022601_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T025214_20190719T031955_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032846_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T031955_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T031955_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T031955_C001  CS_OFFL_SIR_NOP	have been /e been sel /e been sel ality Flags have been ality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20190719T010408_20190719T010856_C001  CS_OFFL_SIR_NOPM_2_20190719T011349_20190719T013755_C001  CS_OFFL_SIR_NOPM_2_20190719T011349_20190719T02030_C001  CS_OFFL_SIR_NOPM_2_20190719T021035_20190719T02030_C001  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T023601_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T025214_20190719T03952_C001  CS_OFFL_SIR_NOPM_2_20190719T025214_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T03421	ve been sel ality Flags have beer ality Flags have beer
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20190719T011349_20190719T013755_C001  CS_OFFL_SIR_NOPM_2_20190719T021035_20190719T022030_C001  CS_OFFL_SIR_NOPM_2_20190719T021035_20190719T022030_C001  CS_OFFL_SIR_NOPM_2_20190719T022088_20190719T022030_C001  CS_OFFL_SIR_NOPM_2_20190719T022088_20190719T02300_C001  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T02300_C001  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T02300_C001  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T02300_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T025214_20190719T031952_C001  CS_OFFL_SIR_NOPM_2_20190719T025214_20190719T031952_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T031952_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCCCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCCCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCCCCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CCCCCS_OFFL_SIR_NO	ality Flags have beer ality Flags have beer ality Flags
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T021035_20190719T022030_C001  CS_OFFL_SIR_NOPM_2_20190719T021035_20190719T022030_C001  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T023601_C001  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T023601_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T025214_20190719T031952_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034235_20190719T042755_C001  CS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CS	have been ality Flags have been ality Flags
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T022608_20190719T023601_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T024924_C001  CS_OFFL_SIR_NOPM_2_20190719T024328_20190719T034924_C001  CS_OFFL_SIR_NOPM_2_20190719T025214_20190719T031952_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T032629_20190719T032946_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T041507_C001  CS_OFFL_SIR_NOPM_2_20190719T034211_20190719T042755_C001  CS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  CS	have beer
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags has for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags has for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.	
Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscat	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  OCGG Altimeter Range Quality, OCOG Backscatter Quality, OCOG	e been se
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Altimeter Range and Backscatter Quality Flags set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags set for one or more records.  OCS_OFFL_SIR_NOPM_2_20190719T042235_20190719T042755_C001  OCGG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.	
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	
Backscatter Quality for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Out	re been se
CS_OFFL_SIR_NOPM_2_20190719T043134_20190719T043314_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.	
CS_OFFL_SIR_NOPM_2_20190719T060244_20190719T060650_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.	re been se
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags Set for one or more records.	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Altimeter Range and Backscatter Quality Flags Altimeter Range and Backscatter Quality Flags	

CS_OFFL_SIR_NOPM_2_20190719T063124_20190719T063616_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_20190719T065811_20190719T073325_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_20190719T073632_20190719T074135_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_20190719T074142_20190719T074148_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_20190719T074156_20190719T074501_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_20190719T075234_20190719T082349_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_20190719T083641_20190719T085119_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_20190719T085307_20190719T091303_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_20190719T091526_20190719T092033_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_20190719T092111_20190719T092239_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_20190719T093016_20190719T094009_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_20190719T094628_20190719T100207_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_20190719T101533_20190719T103619_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_20190719T103759_20190719T105145_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_20190719T105444_20190719T105944_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_20190719T110821_20190719T111044_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_20190719T111132_20190719T113005_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_20190719T113249_20190719T113941_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_20190719T123523_20190719T123901_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_20190719T123922_20190719T124229_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_20190719T124611_20190719T131402_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_20190719T134517_20190719T141003_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_20190719T141305_20190719T141814_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_20190719T141821_20190719T142148_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_20190719T142550_20190719T143617_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_20190719T144155_20190719T145854_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_20190719T151149_20190719T151829_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.

CB OPPL SP NOPN 2 20100710716400 CDD	CS_OFFL_SIR_NOPM_2_20190719T152615_20190719T152924_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.
Description	CS_OFFL_SIR_NOPM_2_20190719T154455_20190719T154920_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flacebasters causity officed  Big Corpt., part, promaty _ 201007107100162 (2010071071002), part to Corpt., part, promate part to corpt. p	CS_OFFL_SIR_NOPM_2_20190719T155304_20190719T155847_C001		
Sell-DPFL_SIR_NOPNL2_201907191719029_20190719172029_0019172030_0019  CR_DPFL_SIR_NOPNL2_201907191719029_20190719172020_0019  CR_DPFL_SIR_NOPNL2_20190719173031_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173031_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173031_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173031_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173031_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173031_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F0000719172010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173030_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173007_F00007191720010_0019  CR_DPFL_SIR_NOPNL2_20190719173007_F000071917200000_0019  CR_DPFL_SIR_NOPNL2_20190719173007_F00007191720000_0019  CR_DPFL_SIR_NOPNL2_201907191720000_0019  CR_DPFL_SIR_NOPNL2_201907191720000_0019  CR_DPFL_SIR_NOPNL2_2019071917200000_0019  CR_DPFL_SIR_NOPNL2_2019071917200000_0019  CR_DPFL_SIR_NOPNL2_2019071	CS_OFFL_SIR_NOPM_2_20190719T160607_20190719T163830_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sc. OFFL.SIR. NOM2.2.201007191714332.20100719172504.0001  OCID. Attractor Range Castley, OCID. Attractor Range and Bedacadard Castley Range have been addressed to Castley Range and Bedacadard Castley Range Range Castley Castley Range and Bedacadard Castley Range Range Castley Castley Range Range and Bedacadard Castley Range Range and Bedacadard Castley Range Range and Bedacadard Castley Range Range Castley Castley Range Range and Bedacadard Castley Range Range and Bedacadard Castley Range Range and Bedacadard Castley Range Range Castley Castley Range Range	CS_OFFL_SIR_NOPM_2_20190719T165103_20190719T165235_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Date of Management Programs (1984).  Cel. OFFE_SR_NOPAL_2_20160719114478_201607191128201_C001  Cel. OFFE_SR_NOPAL_2_20160719114478_201607191128201_C001  Cel. OFFE_SR_NOPAL_2_20160719119478_201607191128201_C001  Cel. OFFE_SR_NOPAL_2_20160719119478_201607191128201_C001  Cel. OFFE_SR_NOPAL_2_20160719119478_201607191128201_C001  Cel. OFFE_SR_NOPAL_2_20160719119478_201607191198201_C001  Cel. OFFE_SR_NOPAL_2_20160719119478_201607191128201_C001  Cel. OFFE_SR_NOPAL_2_20160719119478_201607191198201_C001  Cel. OFFE_SR_NOPAL_2_20160719119478_201607191198201_C001  Cel. OFFE_SR_NOPAL_2_20160719119421_201607191192001_C001  Cel. OFFE_SR_NOPAL_2_2016071912001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C01607601971200001_C0160760197120001_C01607600197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C0160760197120001_C01607600197120001_C0160760197120001_C0160	CS_OFFL_SIR_NOPM_2_20190719T170829_20190719T172728_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OB_OFFL_SIR_NOPM_2_201907197120155_20190719712035_00101 and Bookscariato Quality_COCOD_ Allesticate Reage_SIR_NOPM_2_20190719712035_00101010101010101010101010101010101010	CS_OFFL_SIR_NOPM_2_20190719T173231_20190719T173740_C001		
one Bescaceture Quality, COCO Alternative Renge and Bescaceture Quality Flags have been Alternative Renge and Bescaceture Quality Flags have been Alternative Renge and Bescaceture Quality Flags have been Alternative Renge and Bescaceture Quality	CS_OFFL_SIR_NOPM_2_20190719T174434_20190719T182019_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Beackscatter Cuality, COCO Altimeter Range and Beackscatter Cuality Flags have been set for one rimor in control or one ri	CS_OFFL_SIR_NOPM_2_20190719T182955_20190719T183201_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20100719T19927_20190719T20015_C001  CS_OFFL_SIR_NOPM_2_20100719T19927_20190719T20015_C001  CS_OFFL_SIR_NOPM_2_20190719T20152_20190719T20015_C001  CS_OFFL_SIR_NOPM_2_20190719T20152_20190719T20015_C001  CS_OFFL_SIR_NOPM_2_20190719T20152_20190719T20015_C001  CS_OFFL_SIR_NOPM_2_20190719T20152_20190719T200505_C001  CS_OFFL_SIR_NOPM_2_20190719T20154_20190719T20556_C001  CS_OFFL_SIR_NOPM_2_20190719T20154_20190719T20556_C001  CS_OFFL_SIR_NOPM_2_20190719T20154_20190719T20556_C001  CS_OFFL_SIR_NOPM_2_20190719T20154_20190719T20556_C001  CS_OFFL_SIR_NOPM_2_20190719T20154_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20154_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T20550_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T21055_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T21056_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T21056_C001  CS_OFFL_SIR_NOPM_2_20190719T20552_20190719T21056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T21056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T21056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T21056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T21056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_0190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T22556_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T22556_20190719T22056_C001  CS_OFFL_SIR_NOPM_2_20190719T22556_	CS_OFFL_SIR_NOPM_2_20190719T184738_20190719T190638_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOS Allimeter Range and Backscatter Quality Flags have been after Range and Backscatter Quality Flags have been set one of more records.  CS_OFFL_SIR_NOPM_2_20190719T293192_20190719T20015_0001  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T203192_0001  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T203192_0001  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T203192_0001  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T203192_0001  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T203192_0001  CS_OFFL_SIR_NOPM_2_20190719T203192_0001  CS_OFFL_SIR_NOPM_2_20190719T203192_00001  CS_OFFL_SIR_NOPM_2_20190719T203192_00001  CS_OFFL_SIR_NOPM_2_20190719T203192_00001  CS_OFFL_SIR_NOPM_2_20190719T203192_000000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20190719T191428_20190719T191642_C001		
and Backscatter Ouality, COGG Allimeter Range and Backscatter Ouality Flags have been self or one or more records.  CS_OFFL_SIR_NOPM_2_20190719T201212_20190719T201210_CO01  CS_OFFL_SIR_NOPM_2_20190719T203158_20190719T204509_CO01  CS_OFFL_SIR_NOPM_2_20190719T203158_20190719T204509_CO01  CS_OFFL_SIR_NOPM_2_20190719T203158_20190719T204509_CO01  CS_OFFL_SIR_NOPM_2_20190719T205354_20190719T205551_CO01  CS_OFFL_SIR_NOPM_2_20190719T205354_20190719T205551_CO01  CS_OFFL_SIR_NOPM_2_20190719T205354_20190719T205551_CO01  CS_OFFL_SIR_NOPM_2_20190719T20572_20190719T21083_CO01  CS_OFFL_SIR_NOPM_2_20190719T20572_20190719T21083_CO01  CS_OFFL_SIR_NOPM_2_20190719T20572_20190719T21083_CO01  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T21035_CO01  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T21035_CO01  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T21035_CO01  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T203152_20190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T210315_20190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T210315_20190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T212155_C0190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T212155_C0190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T212035_CO01  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220588_CO01  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220588_CO01  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220588_CO01  CS_OFFL_SIR_NOPM_2_20190719T223515_C0190719T223516_CO01  CS_OFFL_SIR_NOPM_2_20190719T223515_C0190719T223516_CO01  CS_OFFL_SIR_NOPM_2_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T23352_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T23352_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T23352_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T23352_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T23352_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T23352_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T23352_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190	CS_OFFL_SIR_NOPM_2_20190719T192413_20190719T193923_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20190719T203158_20190719T204509_C001  CS_OFFL_SIR_NOPM_2_20190719T203158_20190719T205551_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T205551_C001  CS_OFFL_SIR_NOPM_2_20190719T20554_20190719T205551_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T205551_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T210553_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T210552_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T21053_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T21053_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T21052_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T21052_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T211812_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T21838_C001  CS_OFFL_SIR_NOPM_2_20190719T210512_20190719T21838_C001  CS_OFFL_SIR_NOPM_2_20190719T210512_20190719T212386_C001  CS_OFFL_SIR_NOPM_2_20190719T212152_20190719T212386_C001  CS_OFFL_SIR_NOPM_2_20190719T212152_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222512_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222512_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222512_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222512_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222512_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222512_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222512_20190719T222521_C001  CS_OFFL_SIR_NOPM_2_20190719T222521_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T222521_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T222521_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T222521_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T222521_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T223542_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T223542_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T223542_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T223542_20190719T22354_C001  CS_OFFL_SIR_NOPM_2_20190719T223542_20190719T223542_C001  CS_OFFL_SIR_NOPM_2_20190719T223542_20190719T223544_C001  CS_OFFL_SIR_NOPM_2_20190719T223544_Q0190719T223544_C001  CS_OFFL_SIR	CS_OFFL_SIR_NOPM_2_20190719T193927_20190719T200015_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality. OCOG Allimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T205554_20190719T205551_C001  CS_OFFL_SIR_NOPM_2_20190719T205554_20190719T205551_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T210053_C001  CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T210053_C001  CS_OFFL_SIR_NOPM_2_20190719T2105720_20190719T211812_C001  CS_OFFL_SIR_NOPM_2_20190719T21016_20190719T211812_C001  CS_OFFL_SIR_NOPM_2_20190719T21015_20190719T211812_C001  CS_OFFL_SIR_NOPM_2_20190719T21015_20190719T214936_C001  CS_OFFL_SIR_NOPM_2_20190719T214748_20190719T214924_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T214924_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220558_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222516_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222516_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222516_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222516_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222516_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222516_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222516_C001  CS_OFFL_SIR_NOPM_2_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T233449_20190719T223544_C001  CS_OFFL_SIR_NOPM_2_20190719T233449_20190719T223546_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190719T223546_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000556_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000556_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000556_C001  CS_OFFL_SIR_NOP	CS_OFFL_SIR_NOPM_2_20190719T201212_20190719T203120_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  GS_OFFL_SIR_NOPM_2_20190719T205720_20190719T210053_C001  GS_OFFL_SIR_NOPM_2_20190719T205720_20190719T210053_C001  GS_OFFL_SIR_NOPM_2_20190719T210316_20190719T211812_C001  GS_OFFL_SIR_NOPM_2_20190719T210316_20190719T212336_C001  GS_OFFL_SIR_NOPM_2_20190719T21015_20190719T212336_C001  GS_OFFL_SIR_NOPM_2_20190719T21015_20190719T212336_C001  GS_OFFL_SIR_NOPM_2_20190719T21015_20190719T214924_C001  GS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220558_C001  GS_OFFL_SIR_NOPM_2_20190719T222516_20190719T220558_C001  GS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222651_C001  GS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222651_C001  GS_OFFL_SIR_NOPM_2_20190719T222516_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T222516_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T23522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T233522_20190719T223516_C001  GS_OFFL_SIR_NOPM_2_20190719T234349_20190709T000655_C001  GS_OFFL_SIR_NOPM_2_20190719T234349	CS_OFFL_SIR_NOPM_2_20190719T203158_20190719T204509_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20190719T210316_20190719T211812_C001  CS_OFFL_SIR_NOPM_2_20190719T210316_20190719T211812_C001  CS_OFFL_SIR_NOPM_2_20190719T212015_20190719T212936_C001  CS_OFFL_SIR_NOPM_2_20190719T212015_20190719T212936_C001  CS_OFFL_SIR_NOPM_2_20190719T212015_20190719T212936_C001  CS_OFFL_SIR_NOPM_2_20190719T214746_20190719T214924_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T214924_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T2120858_C001  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220858_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222821_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222821_C001  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222821_C001  CS_OFFL_SIR_NOPM_2_20190719T223215_20190719T2233516_C001  CS_OFFL_SIR_NOPM_2_20190719T2232252_20190719T223354_C001  CS_OFFL_SIR_NOPM_2_20190719T223222_20190719T223354_C001  CS_OFFL_SIR_NOPM_2_20190719T223322_20190719T223354_C001  CS_OFFL_SIR_NOPM_2_20190719T22332449_20190719T223984_C001  CS_OFFL_SIR_NOPM_2_20190719T22332449_20190719T223984_C001  CS_OFFL_SIR_NOPM_2_20190719T2234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CCOCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T223449_20190719T223984_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CCOCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CCOCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CCOCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CCOCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags hav	CS_OFFL_SIR_NOPM_2_20190719T205354_20190719T205551_C001		, ,
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T212015_20190719T212936_C001  OCGA Altimeter Range Altimeter Range Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCGA Altimeter Range Altim	CS_OFFL_SIR_NOPM_2_20190719T205720_20190719T210053_C001		
CS_OFFL_SIR_NOPM_2_20190719T212015_20190719T212936_CO01  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T214746_20190719T214924_CO01  CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220858_CO01  CS_OFFL_SIR_NOPM_2_20190719T22516_20190719T220858_CO01  CS_OFFL_SIR_NOPM_2_20190719T22516_20190719T222621_CO01  CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T223516_CO01  CS_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223542_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223542_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223542_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223542_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223542_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_0190719T223542_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223542_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T223522_0190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T223549_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T223449_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T223449_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T223449_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO01  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_CO	CS_OFFL_SIR_NOPM_2_20190719T210316_20190719T211812_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  Cs_OFFL_SIR_NOPM_2_20190719T215152_20190719T220858_C001  Cs_OFFL_SIR_NOPM_2_20190719T22516_20190719T220858_C001  Cs_OFFL_SIR_NOPM_2_20190719T22516_20190719T222621_C001  Cs_OFFL_SIR_NOPM_2_20190719T222516_20190719T222621_C001  Cs_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_C001  Cs_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_C001  Cs_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_C001  Cs_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001  Cs_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001  Cs_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001  Cs_OFFL_SIR_NOPM_2_20190719T2234349_20190719T225842_C001  Cs_OFFL_SIR_NOPM_2_20190719T224249_20190719T225842_C001  Cs_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  Cs_OFFL_SIR_NOPM_2_20190719T234	CS_OFFL_SIR_NOPM_2_20190719T212015_20190719T212936_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 and Backscatter Quality Flags have been Altimeter Range 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 have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223542_C001  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  And Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFF	CS_OFFL_SIR_NOPM_2_20190719T214746_20190719T214924_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_C001  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T00065	CS_OFFL_SIR_NOPM_2_20190719T215152_20190719T220858_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20190719T223518_C001  Backscatter Quality  CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T001545_201907310T001747_C001  CS_OFFL_SIR_NOPM_2_20190719T001545_201907310T001747_C001	CS_OFFL_SIR_NOPM_2_20190719T222516_20190719T222621_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  CS_OFFL_SIR_NOPM_2_20190719T224249_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  CS_OFFL_SIR_NOPM_2_20190719T001645_20190710T001747_C001  CS_OFFL_SIR_NOPM_2_20190719T001645_20190710T001747_C001  CCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20190719T223215_20190719T223516_C001		
CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Cs_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001  Cs_OFFL_SIR_NOPM_2_20190719T001645_20190720T000655_C001  Cs_OFFL_SIR_NOPM_2_20190719T001645_20190720T000655_C001  Cs_OFFL_SIR_NOPM_2_20190719T001645_201907210T001747_C001	CS_OFFL_SIR_NOPM_2_20190719T223522_20190719T223954_C001		
CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range and Backscatter Quality, OCOG  The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPM_2_20190719T224249_20190719T225642_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20190719T234349_20190720T000655_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPN_2_20190719T001645_20190719T001747_C001		

CS_OFFL_SIR_NOPN_2_20190719T010856_20190719T011109_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_20190719T014931_20190719T015007_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_20190719T015708_20190719T015735_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_20190719T034032_20190719T034211_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_20190719T042755_20190719T042915_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_20190719T083509_20190719T083525_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_20190719T100625_20190719T100840_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_20190719T145854_20190719T150244_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_20190719T191643_20190719T192202_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_20190719T222414_20190719T222516_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_20190719T015031_20190719T015131_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_20190719T015156_20190719T015707_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_20190719T032946_20190719T033039_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_20190719T092047_20190719T092052_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_20190719T233112_20190719T233351_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

### L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20190718T235722_20190719T000102_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_20190719T001923_20190719T002137_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_20190719T013755_20190719T013919_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_20190719T033039_20190719T033056_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_20190719T041920_20190719T042235_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_20190719T044707_20190719T044813_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_20190719T045010_20190719T045154_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_20190719T050438_20190719T050537_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_20190719T051816_20190719T051954_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_20190719T052014_20190719T052117_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_20190719T055807_20190719T060126_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_20190719T062947_20190719T063124_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_20190719T073441_20190719T073632_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_20190719T074501_20190719T074639_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_20190719T082827_20190719T082926_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_20190719T094009_20190719T094115_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_20190719T111044_20190719T111132_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_20190719T114305_20190719T114704_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_20190719T115227_20190719T115258_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_20190719T120330_20190719T120716_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_20190719T123249_20190719T123522_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_20190719T141130_20190719T141305_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_20190719T142149_20190719T142316_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_20190719T145854_20190719T150244_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_20190719T151020_20190719T151048_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_20190719T155847_20190719T155918_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_20190719T160049_20190719T160203_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_20190719T165235_20190719T165329_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_20190719T170811_20190719T170829_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_20190719T173741_20190719T174045_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_20190719T191131_20190719T191428_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_20190719T191643_20190719T192202_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_20190719T200739_20190719T201051_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_20190719T212937_20190719T213304_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_20190719T214924_20190719T215152_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_20190719T220858_20190719T221339_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_20190719T222621_20190719T222952_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_20190719T223954_20190719T224139_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_20190719T233351_20190719T233514_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_20190719T002158_20190719T002433_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_20190719T002922_20190719T003139_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_20190719T011109_20190719T011349_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_20190719T014910_20190719T014931_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_20190719T022030_20190719T022608_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_20190719T023601_20190719T023929_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_20190719T042915_20190719T043133_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_20190719T043553_20190719T043835_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_20190719T055438_20190719T055806_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_20190719T060815_20190719T061201_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_20190719T065027_20190719T065811_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_20190719T073325_20190719T073441_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_20190719T074136_20190719T074141_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_20190719T074711_20190719T075234_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_20190719T083525_20190719T083640_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_20190719T091303_20190719T091345_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_20190719T092450_20190719T093016_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_20190719T100840_20190719T101533_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_20190719T103619_20190719T103759_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_20190719T120719_20190719T120857_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_20190719T122958_20190719T123249_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_20190719T142316_20190719T142550_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_20190719T153943_20190719T154455_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_20190719T154920_20190719T155141_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_20190719T165346_20190719T165715_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_20190719T170009_20190719T170329_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_20190719T172729_20190719T173105_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_20190719T174045_20190719T174433_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_20190719T183202_20190719T183930_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_20190719T183939_20190719T184216_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_20190719T190639_20190719T191130_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_20190719T192203_20190719T192413_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_20190719T200016_20190719T200108_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_20190719T204509_20190719T205119_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_20190719T222323_20190719T222414_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_20190719T225642_20190719T230531_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:

### 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.

58

134

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: