

# IDEAS+ Daily Report for NOP data:

<u>28/10/2019</u>

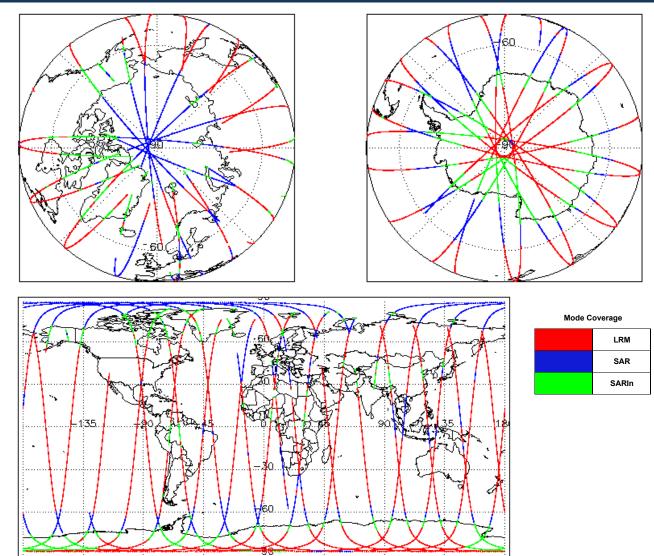


port Production:	29-Oct-2019	Check	L1 & L2
eport Production.	29-001-2019	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor useu.	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Useu.	L1B & L2 Science Data	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 27-Oct-2019 None 28-Oct-2019 None

29-Oct-2019 Nothing planned





## 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). Number of products with errors: 0

or all products, a series of pre-defined checks are performed on the MPH	and SPH in order to identify any incons	sistencies and/or errors raised by the ground-segment processing chain.
	L1B IOPR and IOPN products because	e the I1b_processing_quality_hr field is not correctly configured in the OSAR and
SARIn chains. A modification is required in the next release.		
umber of products with errors: 0		
.3 L1B Auxilary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a	pre-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
ynamic Atmospheric Correction: The DAC is missing in all products bee	cause the auxiliary files required are no	ot available in time for processing. This known and expected behaviour.
umber of products with errors: 0		
4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag for each measurement rec	cord. The bit value of this flag indicates	s any problems when set.
umber of products with errors: 0		
.5 L1B Measurement Confidence Data Check		
yoSat L1B data includes a measurement confidence flag for each measu	rement record. The bit value of this flag	g 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.
umber of products with errors: 1		
roduct	Test Failed	Description
		There is an error in the scaling of the L1B waveform for one or more
S_OFFL_SIR_NOPM1B_20191028T001709_20191028T002128_C001	Power scaling error	records
.6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement rec Loss of Echo Flag: This flag is currently set for products over land, but th	ord. The bit value of this flag indicates	records
.6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement rec Loss of Echo Flag: This flag is currently set for products over land, but th umber of products with errors: 18	ord. The bit value of this flag indicates	any problems when set.
S_OFFL_SIR_NOPM1B_20191028T001709_20191028T002128_C001 .6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement rec Loss of Echo Flag: This flag is currently set for products over land, but th umber of products with errors: 18 roduct S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001	ord. The bit value of this flag indicates	records
.6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement rec Loss of Echo Flag: This flag is currently set for products over land, but th umber of products with errors: 18 roduct	ord. The bit value of this flag indicates his is to be expected. Test Failed	any problems when set.
.6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement rec Loss of Echo Flag: This flag is currently set for products over land, but the umber of products with errors: 18 roduct S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001 S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001	ord. The bit value of this flag indicates his is to be expected. Test Failed Loss of Echo	any problems when set.           Description           The tracking echo is missing for one or more records
.6 L1B Waveform Group Data Check         ryoSat L1B data includes a waveform data flag for each measurement rec         Loss of Echo Flag: This flag is currently set for products over land, but th         umber of products with errors:       18         roduct       18         S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001         S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001         S_OFFL_SIR_NOPM1B_20191028T174224_20191028T175051_C001	ord. The bit value of this flag indicates his is to be expected. Test Failed Loss of Echo Loss of Echo	any problems when set.           Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
.6 L1B Waveform Group Data Check         ryoSat L1B data includes a waveform data flag for each measurement rec         Loss of Echo Flag: This flag is currently set for products over land, but th         umber of products with errors:       18         roduct       S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo Loss of Echo	records         any problems when set.         Description         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
.6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement rec Loss of Echo Flag: This flag is currently set for products over land, but th umber of products with errors: 18 roduct S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001 S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001 S_OFFL_SIR_NOPM1B_20191028T174224_20191028T175051_C001 S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001 S_OFFL_SIR_NOPM1B_20191028T204614_20191028T220714_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo Loss of Echo Loss of Echo	records         any problems when set.         Description         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
.6 L1B Waveform Group Data Check         ryoSat L1B data includes a waveform data flag for each measurement rec         Loss of Echo Flag: This flag is currently set for products over land, but th         umber of products with errors:       18         roduct       18         S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001         S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001         S_OFFL_SIR_NOPM1B_20191028T174224_20191028T175051_C001         S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	records         any problems when set.         Description         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
.6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement red Loss of Echo Flag: This flag is currently set for products over land, but the umber of products with errors: 18 roduct S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001 S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001 S_OFFL_SIR_NOPM1B_20191028T174224_20191028T175051_C001 S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001 S_OFFL_SIR_NOPM1B_20191028T204614_20191028T220714_C001 S_OFFL_SIR_NOPM1B_20191028T012429_20191028T012853_C001 S_OFFL_SIR_NOPN1B_20191028T012429_20191028T012853_C001 S_OFFL_SIR_NOPN1B_20191028T012429_20191028T012853_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	records         any problems when set.         Description         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records
.6 L1B Waveform Group Data Check ryoSat L1B data includes a waveform data flag for each measurement rec Loss of Echo Flag: This flag is currently set for products over land, but th umber of products with errors: 18 roduct S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001 S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001 S_OFFL_SIR_NOPM1B_20191028T174224_20191028T175051_C001 S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001 S_OFFL_SIR_NOPM1B_20191028T220431_20191028T220714_C001 S_OFFL_SIR_NOPM1B_20191028T012429_20191028T012853_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         any problems when set.         Description         The tracking echo is missing for one or more records
.6 L1B Waveform Group Data Check           ryoSat L1B data includes a waveform data flag for each measurement red           Loss of Echo Flag: This flag is currently set for products over land, but th           umber of products with errors:         18           roduct         18           S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001           S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T174224_20191028T175051_C001           S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001           S_OFFL_SIR_NOPM1B_20191028T220431_20191028T220714_C001           S_OFFL_SIR_NOPM1B_20191028T012429_20191028T0212853_C001           S_OFFL_SIR_NOPN1B_20191028T021323_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021402_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021402_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021402_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021402_20191028T021425_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         any problems when set.         Description         Image: The tracking echo is missing for one or more records         The tracking echo is missing for one
.6 L1B Waveform Group Data Check           yoSat L1B data includes a waveform data flag for each measurement red           Loss of Echo Flag: This flag is currently set for products over land, but the           umber of products with errors:         18           roduct         18           s_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001           S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T174224_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001           S_OFFL_SIR_NOPM1B_20191028T20431_20191028T220714_C001           S_OFFL_SIR_NOPM1B_20191028T012429_20191028T012853_C001           S_OFFL_SIR_NOPN1B_20191028T021233_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021233_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021422_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T0214125_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T041046_20191028T041216_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         Description         The tracking echo is missing for one or more records         The tracking
Source         Source<	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         any problems when set.         Description         Image: The tracking echo is missing for one or more records         The tracking echo is missing for one
Source         Source<	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         any problems when set.         Description         Image: The tracking echo is missing for one or more records         The tracking echo is missing for one
.6 L1B Waveform Group Data Check           cyoSat L1B data includes a waveform data flag for each measurement red           Loss of Echo Flag: This flag is currently set for products over land, but th           umber of products with errors:         18           roduct         18           S_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001           S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T174224_20191028T175051_C001           S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001           S_OFFL_SIR_NOPM1B_20191028T220431_20191028T220714_C001           S_OFFL_SIR_NOPM1B_20191028T0212429_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021233_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021233_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021422_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021422_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021402_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021402_20191028T021611_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T021611_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T041046_20191028T041216_C001           S_OFFL_SIR_NOPN1B_20191028T03821_20191028T103841_C001           S_OFFL_SIR_NOPN1B_20191028T03821_20191028T103841_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         any problems when set.         Description         Image: The tracking echo is missing for one or more records         The tracking echo is missing for one
.6 L1B Waveform Group Data Check           ryoSat L1B data includes a waveform data flag for each measurement red           Loss of Echo Flag: This flag is currently set for products over land, but th           umber of products with errors:         18           roduct         18           s_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001           S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T174224_20191028T152051_C001           S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001           S_OFFL_SIR_NOPM1B_20191028T0212429_20191028T012853_C001           S_OFFL_SIR_NOPM1B_20191028T021233_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021429_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021422_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T041046_20191028T041216_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T049437_20191028T041216_C001           S_OFFL_SIR_NOPN1B_20191028T153909_20191028T154028_C001           S_OFFL_SIR_NOPN1B_20191028T153909_20191028T154028_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         Description         Image: The tracking echo is missing for one or more records         The tr
.6 L1B Waveform Group Data Check           ryoSat L1B data includes a waveform data flag for each measurement red           Loss of Echo Flag: This flag is currently set for products over land, but th           umber of products with errors:         18           roduct         18           s_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001           S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T174224_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001           S_OFFL_SIR_NOPM1B_20191028T204614_20191028T012853_C001           S_OFFL_SIR_NOPM1B_20191028T012429_20191028T012853_C001           S_OFFL_SIR_NOPN1B_20191028T021233_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021422_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T041046_20191028T041216_C001           S_OFFL_SIR_NOPN1B_20191028T041046_20191028T041216_C001           S_OFFL_SIR_NOPN1B_20191028T043572_20191028T0435721_C001           S_OFFL_SIR_NOPN1B_20191028T041245_20191028T0435721_C001           S_OFFL_SIR_NOPN1B_20191028T041245_20191028T0432721           S_OFFL_SIR_NOPN1B_20191028T0435619_20191028T0432721           S_OFFL_SIR_NOPN1B_20191028T0435619_20191028T04324126           S_OFFL_SIR_NOPN1B_20191028T153309_20191028T1	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         any problems when set.         Description         The tracking echo is missing for one or more records         The tracking echo is missing for one or mor
.6 L1B Waveform Group Data Check           ryoSat L1B data includes a waveform data flag for each measurement red           Loss of Echo Flag: This flag is currently set for products over land, but th           umber of products with errors:         18           roduct         18           s_OFFL_SIR_NOPM1B_20191028T010116_20191028T012225_C001           S_OFFL_SIR_NOPM1B_20191028T151333_20191028T152703_C001           S_OFFL_SIR_NOPM1B_20191028T174224_20191028T152051_C001           S_OFFL_SIR_NOPM1B_20191028T204614_20191028T211302_C001           S_OFFL_SIR_NOPM1B_20191028T0212429_20191028T012853_C001           S_OFFL_SIR_NOPM1B_20191028T021233_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021429_20191028T021322_C001           S_OFFL_SIR_NOPN1B_20191028T021422_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T021427_20191028T021425_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T041046_20191028T041216_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T035619_20191028T035721_C001           S_OFFL_SIR_NOPN1B_20191028T04804937_20191028T041216_C001           S_OFFL_SIR_NOPN1B_20191028T153909_20191028T154028_C001           S_OFFL_SIR_NOPN1B_20191028T153909_20191028T154028_C001	ord. The bit value of this flag indicates his is to be expected. <b>Test Failed</b> Loss of Echo Loss of Echo	records         any problems when set.         Description         Image: I

## 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).

0

0

Number of products with errors:

#### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

## 5.3 L2 Auxiliary Data File Usage Check

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

#### 5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, 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.

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> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20191028T051420_20191028T052822_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_20191028T105218_20191028T105354_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_20191028T012429_20191028T012853_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20191028T013441_20191028T013559_C001	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191028T021427_20191028T021611_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_20191028T031211_20191028T031357_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_20191028T035619_20191028T035721_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_NOPN_2_20191028T040250_20191028T040340_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_20191028T045020_20191028T045245_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_20191028T053413_20191028T053548_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_20191028T062923_20191028T063343_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_20191028T071054_20191028T071446_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_20191028T071958_20191028T072032_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_0FFL_SIR_NOPN_2_20191028T094937_20191028T095115_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20191028T111944_20191028T112102_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_20191028T112632_20191028T112907_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_20191028T121745_20191028T121826_C001	Mean Sea Surface (1), Mean Dynamic	more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20191028T122056_20191028T122225_C001	Topography (1) Mean Dynamic Topography (1)	Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or
		more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20191028T125908_20191028T130021_C001	Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	more records
CS_OFFL_SIR_NOPN_2_20191028T130529_20191028T130843_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_20191028T144002_20191028T144239_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_20191028T144432_20191028T145013_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_20191028T153520_20191028T153549_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_20191028T161833_20191028T162138_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_20191028T171429_20191028T171536_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 20191028T175732 20191028T175936 C001	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 20191028T185343 20191028T185932 C001	Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20191028T194624_20191028T194855_C001	Tide (GOT) Total Geocentric Ocean Mean Dynamic Topography (1)	Topography (solution 1) and the tidal corrections for one or more records There is an error with the Mean Dynamic Topography height for one or
CS OFFL SIR NOPN 2 20191028T203359 20191028T203503 C001	Mean Sea Surface (1), Mean Dynamic	more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_201910207200005_201910201200005_0001	Topography (1) Mean Dynamic Topography (1)	Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or
		more records There is an error with the Mean Dynamic Topography height for one or
CS OFFL SIR NORN 2 201010287221550 201010287221040 0004	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_20191028T221559_20191028T221949_C001 CS_OFFL_SIR_NOPN_2_20191028T225612_20191028T225939_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
	Topography (1) Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20191028T225612_20191028T225939_C001 CS_OFFL_SIR_NOPN_2_20191028T234246_20191028T234332_C001	Topography (1) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20191028T225612_20191028T225939_C001	Topography (1) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20191028T225612_20191028T225939_C001 CS_OFFL_SIR_NOPN_2_20191028T234246_20191028T234332_C001 CS_OFFL_SIR_NOPR_2_20191028T003821_20191028T004609_C001	Topography (1) Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic

CS_OFFL_SIR_NOPR_2_20191028T071446_20191028T071957_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_20191028T104730_20191028T104924_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_20191028T161630_20191028T161833_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20191028T202859_20191028T203358_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_20191028T220715_20191028T221558_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_20191028T234650_20191028T235451_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product Test Faile	ed	Description
CS_OFFL_SIR_NOPM_2_20191028T001709_20191028T002128_C001 Power sca	aling 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.

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20191028T000222_20191028T000623_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_20191028T001219_20191028T001639_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_20191028T003253_20191028T003703_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_20191028T004609_20191028T004636_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_20191028T004713_20191028T005830_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_20191028T010116_20191028T012225_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_20191028T012853_20191028T013024_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_20191028T013032_20191028T013440_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_20191028T014012_20191028T014946_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_20191028T015011_20191028T015851_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_20191028T015947_20191028T020352_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_20191028T022915_20191028T023357_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_20191028T023537_20191028T025334_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_20191028T025336_20191028T030131_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_20191028T030357_20191028T030923_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_20191028T030929_20191028T030935_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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CS_OFFL_SIR_NOPM_2_20191028T030942_20191028T031210_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_20191028T032025_20191028T033253_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_20191028T033331_20191028T035044_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_20191028T040757_20191028T041046_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_20191028T041413_20191028T042350_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_20191028T042554_20191028T044025_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_20191028T044323_20191028T044819_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_20191028T045722_20191028T050917_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_20191028T051420_20191028T052822_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_20191028T052837_20191028T053042_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_20191028T060517_20191028T061905_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_20191028T062247_20191028T062733_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_20191028T063528_20191028T065652_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_20191028T065655_20191028T070058_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_20191028T072204_20191028T072841_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_20191028T090308_20191028T090836_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_20191028T090943_20191028T093728_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_20191028T094105_20191028T094601_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_20191028T094608_20191028T094936_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_20191028T103911_20191028T104157_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_20191028T111251_20191028T111413_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_20191028T112103_20191028T112632_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_20191028T113405_20191028T120835_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_20191028T121827_20191028T122055_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_20191028T122225_20191028T122250_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_20191028T122535_20191028T122631_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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Attribute Targe and Bickkestler Quality         end for the more incode.           CS_OPEL_SIR_NOPM_2_201910281144520_201910281144520_2011         DCOD Attribute Range Quality May COD Structure Dual Quality COD Attribute Range and Bickkestler Quality Flags have been and the COD Attribute Range SINA_SWI and the COD Attribute Range SINA_SWI and Bickkestler Quality Flags have been and Bickkestler Quality COD Attribute Range SINA_SWI and Bickkestler Quality Flags have been and Bickkestler Quality COD Attribute Range SINA_SWI and Bickkestler Quality Flags have been and Bickkestler Quality COD Attribute Range SINA_SWI and Bickkestler Quality Flags have been and Bickkestler Quality Flags have been and have been and bickkestler Quality Flags have been and have been and bickkestler Quality Flags have been and have been and bickkestler Quality Flags have been and have been and			
CCCUT_CUT_CUT_CUT_CUT_CUT_CUT_CUT_CUT_CU	CS_OFFL_SIR_NOPM_2_20191028T123850_20191028T125448_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Cill, Ferl, Jill, JORN J. 2010/CIRT 1502 301/CIRT	CS_OFFL_SIR_NOPM_2_20191028T130022_20191028T130528_C001		
<ul> <li>CS, OHL, SIR, NOME 2, 2019122112210, 2019122112210, 2019122112210, 2019122111221, 2019122111221, 2019122111221, 2019122111221, 2019122111222, 2019122111221, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111221, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111221, 2019122111222, 2019122111222, 2019122111222, 2019122111222, 2019122111221, 2019122111224, 20191221111224, 20191221111224, 20191221111244, 20191221111244, 201912211112</li></ul>	CS_OFFL_SIR_NOPM_2_20191028T131227_20191028T134708_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
BB_CPFL_DR_NOPM_2_2019102811423_20191028114433_C001         and Bascane Curly GOO         and the COO Adminish Range and Bascane Curly Flags.           CB_CPFL_DR_NOPM_2_20191028114231_20191028114432_C001         COO Adminish Range Curl Discourse Curly Flags.         The COO Adminish Range and Bascane Curly Flags.           CB_CPFL_DR_NOPM_2_20191028114231_20191028114432_C001         Coor Adminish Range Curl Discourse Curl Range.         The COO Adminish Range Curl Discourse Curl Range.           CB_CPFL_DR_NOPM_2_20191028114231_20191028114232_20191028114231_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_20191028114232_201910	CS_OFFL_SIR_NOPM_2_20191028T135820_20191028T135951_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Control         Biochester         Gale walls         Gale walls         Gale walls           Ell_CHFL_SR_NORM_2_D1010001142011_00101021142040_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage           CB_CHFL_SR_NORM_2_D1010001142011_00101021142040_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage           CB_CHFL_SR_NORM_2_D1010001142011_00201_0010221152050_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage           CB_CHFL_SR_NORM_2_D101000114201_00102_00101221152050_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage           CB_CHFL_SR_NORM_2_D101000114201_00101221_00101221152050_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage Fare been           CB_CHFL_SR_NORM_2_D1010001144001_00102_00101221152050_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage Fare been           CB_CHFL_SR_NORM_2_D1010001144001_00101221152010_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage Fare been           CB_CHFL_SR_NORM_2_D1010001144001_00101221152116400_0001         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage Fare been           CB_CHFL_SR_NORM_2_D101000114201_0021162116240_0010         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage Fare been           CB_CHFL_SR_NORM_2_D1010001162116240_0010         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage Fare been           CB_CHFL_SR_NORM_2_D1010001162116240_0010         Control Manual Farge, SSM, SWH and Balaccalthr Chally Fage Fare been	CS_OFFL_SIR_NOPM_2_20191028T141023_20191028T143304_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_DEN_LER_NOPM_2_20111021114011021_20111021114011021_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_201110211140114_20110211140114_201110211140114_201110211140114_20110211140114_201110211140114_201110211140114_201110211140114_201110211140114_20110211140114_20110211140114_20110211140114_20110211140114_20110211140114_20110211140114_20110211140114_20110211140114_20110211140114_20110101114014_20110101011140114_20110101114014_201100111140114_20110101114014_2	CS_OFFL_SIR_NOPM_2_20191028T144239_20191028T144432_C001		
CB_CPFL_SR_NOPM_2_20191021119351_021911021119351_02191         end Backadethe Outling, OCOD         and backadethe Outling, OCOD         and backadethe Outling, OCOD           CB_CPFL_SR_NOPM_2_20191021119353_01910201193710_0011         Cobest Althrethe Range, SSH, SWH         The OCOD Althrethe Range, SSH, SWH and Backadethe Outling, OCOD           CB_CPFL_SR_NOPM_2_201910201119409_0191021119409_0011         Cobest Althrethe Range, SSH, SWH, SWH         The OCOD Althrethe Range, SSH, SWH and Backadethe Outling, OCOD           CB_CPFL_SR_NOPM_2_201910201119409_01921119409_0191021119409_0011         Cobest Althrethe Range, SSH, SWH         The OCOD Althrethe Range, SSH, SWH and Backadethe Outling, OCOD           CB_CPFL_SR_NOPM_2_2019102011194019_01921119409_0011         Cobest Althrethe Range, SSH, SWH and Backadethe Outling, OCOD           CB_CPFL_SR_NOPM_2_2019102011194019_01921119409_0011         Cobest Althrethe Range, SSH, SWH and Backadethe Outling, OCOD           CB_CPFL_SR_NOPM_2_2019102011194019_01921119409_0011         Cobest Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative Althrethe Range, SSH, SWH and Backadethe Outling, Note Negative AlthretheRange, SSH, SWH and Backadethe Outling, Note Negative Alth	CS_OFFL_SIR_NOPM_2_20191028T145213_20191028T145949_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CBOFFL_SR_NOPM_2_20191028116133_20191028116200_D001       and Backscatter Quality CBMark       and the OCG_Altimeter Range and Backscatter Quality CBMark         CBOFFL_SR_NOPM_2_201910281161020_20191028115800_D001       and Backscatter Quality CBMark       in to Coca Altimeter Range and Backscatter Quality CBMark         CBOFFL_SR_NOPM_2_20191028116200_D001       and Backscatter Quality CBMark       in to Coca Altimeter Range and Backscatter Quality CBMark         CBOFFL_SR_NOPM_2_20191028116210_20191028116204_D001       Coca Altimeter Range and Backscatter Quality CBMark       in the OCGA Altimeter Range and Backscatter Quality FBMark         CBOFFL_SR_NOPM_2_20191028116214_D0191028116214_D001       CocG Altimeter Range and Backscatter Quality FBMark       in the OCGA Altimeter Range and Backscatter Quality FBMark         CBOFFL_SR_NOPM_2_20191028116214_D0191028116234_D001       COCG Altimeter Range Altimeter Range and Backscatter Quality FBMark       in the OCGA Altimeter Range and Backscatter Quality FBMark         CBOFFL_SR_NOPM_2_20191028116214_D0191028116234_D001       Coca Altimeter Range SH_MS WH       in the Coca Altimeter Range and Backscatter Quality FBMark         CBOFFL_SR_NOPM_2_20191028116214_D0191028116234_D001       Coca Altimeter Range SH_MS WH       in the Coca Altimeter Range and Backscatter Quality FBMark         CBOFFL_SR_NOPM_2_20191028116211_D0191028116214_D010       Coca Altimeter Range SH_MS WH       in the Coca Altimeter Range SH_MS WH       in the Coca Altimeter Range SH_MS WH       in the Coca Altimeter Range SH_MS WH	CS_OFFL_SIR_NOPM_2_20191028T150541_20191028T150851_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2, OFFL_SIR_NOPM_2_20191023T1502_20191023T15502_00190271151402_C001 and Backscatter Quality_Rags and Backscatter Quality_Rags have been Affineter Range and Backscatter Quality_Rags have been Affineter Range and Backscatter Quality_Rags and the OCOO Alimeter Range and Backscatter Quality_Rags and Backscat	CS_OFFL_SIR_NOPM_2_20191028T151333_20191028T152703_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_NOPM_2_20191028T15051_20191028T16148_0001       and Backscatter Quality, COCG       and the COCG Altimeter Range and Backscatter Quality Flags have been set for one rome records.         CB_OFFL_SIR_NOPM_2_20191028T16244_2001       COCG Altimeter Range Quality, COCG       The COCG Altimeter Range and Backscatter Quality Flags have been set for one rome records.         CB_OFFL_SIR_NOPM_2_20191028T16244_2001       COCG Altimeter Range Quality, COCG       The COCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one rome records.         CB_OFFL_SIR_NOPM_2_20191028T16244_2001       COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one rome records.       The COCA Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one rome records.         CB_OFFL_SIR_NOPM_2_20191028T161420_0011       Cocen Altimeter Range, SHA, SWH and Backscatter Quality Flags have been attracter Quality, COCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been attracter Range, SHA, SWH and Backscatter Quality Flags have been attracter Range, SHA, SWH and Backscatter Quality Flags have been attracter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one rome records.         CB_OFFL_SIR_NOPM_2_20191028T1071538_20191028T1071531_2001       COCG Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one rome records.         CB_OFFL_SIR_NOPM_2_20191028T1071538_20191028T1071538_20191028T1071538_20191028T1071538_20191028T1071538_20191028T1071538_20191028T1071538_20191028T	CS_OFFL_SIR_NOPM_2_20191028T154029_20191028T155800_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Column Column Column Column         Backscater Quality         For one or more records.           OS_OFFL_SIR_NOPM_2_201910281162440_201910281162844_0001         COCG Allmeter Range And Backscatter Quality Flags have been at for one or more records.           OS_OFFL_SIR_NOPM_2_201910281162410_201910281164420_0001         Cocen Allmeter Range ASNA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281162410_201910281164420_0001         Cocen Allmeter Range ASNA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281164759_201910281165136_0001         Ocean Allmeter Range ASNA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281165139_201910281166721_0001         Ocean Allmeter Range ASNA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281171533_2019102811716372_0001         Ocean Allmeter Range ASNA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281171532_01910281171637_0001         Ocean Allmeter Range ASNA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281171536_0001         Ocean Allmeter Range ASNA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281171536_0001         Ocean Allmeter Range, SSHA, SVH and Backscatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_201910281171536_0001	CS_OFFL_SIR_NOPM_2_20191028T155951_20191028T161408_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DS_PFL_SIR_NOPM_2_201910281162440_011         Backsatter Quality         For one or more records.           CS_OFFL_SIR_NOPM_2_201910281163111_20191028116420_0001         Ocean Altimeter Range. SSHA. SWH         The Ocean Altimeter Range. SSHA. SWH           CS_OFFL_SIR_NOPM_2_201910281163111_20191028116420_0001         Ocean Altimeter Range. SSHA. SWH         The Ocean Altimeter Range. SSHA. SWH           CS_OFFL_SIR_NOPM_2_201910281164759_201910281165721_0001         Ocean Altimeter Range. SSHA. SWH         The Ocean Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimeter Range. SSHA. SWH and Backscatter Quality Flags have been Altimete	CS_OFFL_SIR_NOPM_2_20191028T162138_20191028T162342_C001		
CS_OFFL_SIR_NOPM_2_20191028T16311_20191028T16420_C001         and Backscatter Quality Flags have been Allmeter Range SHA, SWH and Backscatter Quality Flags have been Allmeter Range SHA, SWH and Backscatter Quality Flags have been Allmeter Range SHA, SWH and Backscatter Quality Flags have been Allmeter Range SHA, SWH and Backscatter Quality Flags have been Allmeter Range SHA, SWH and Backscatter Quality Flags have been Allmeter Range SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Range, SHA, SWH and Backscatter Quality Flags have been Allmeter Rang	CS_OFFL_SIR_NOPM_2_20191028T162440_20191028T162844_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20191028T16759_20191028T165136_C001       and Backscatter Quality. COCG Allimeter Range and Backscatter Quality. Flags have been Allimeter Range and Backscatter Quality. Flags have been and backscatter Quality. COCG Allimeter Range and Backscatter Quality. Flags have been and backscatter Quality. COCG Allimeter Range and Backscatter Quality. Flags have been and backscatter Quality. COCG Allimeter Range and Backscatter Quality. Flags have been act for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T171538_20191028T171631_C001       COCG Allimeter Range Quality. COCG Backscatter Quality. COCG Backscatter Quality. COCG Allimeter Range and Backscatter Quality. Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T171598_20191028T171914_C0011       COCG Allimeter Range, SSHA, SWH and Backscatter Quality. COCG Allimeter Range and Backscatter Quality. Flags and the COCG Allimeter Range and Backscatter Quality. Flags have been as for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T175126_20191028T175126_20191028T175126_20191028T175126_20191028T175126_2019102	CS_OFFL_SIR_NOPM_2_20191028T163111_20191028T164420_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T16513_20191028T17512       and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T171538_20191028T171631_C001       DeCoG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T17159_20191028T171914_C001       Decan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T171929_20191028T177950_C001       Decan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, ISBA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, ISBA, SWH and Backscatter Quality, ISBA	CS_OFFL_SIR_NOPM_2_20191028T164759_20191028T165136_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028117183_001         Backscatter Quality         for one or more records.           CS_OFFL_SIR_NOPM_2_20191028T171759_20191028T171914_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COG Attimeter Range and Backscatter Quality         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Plags have been Attimeter Range, SSHA, SWH           CS_OFFL_SIR_NOPM_2_20191028T171929_20191028T173650_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COG Attimeter Range, SSHA, SWH         The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Plags have been Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality, COG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been Attimeter Range and Backscatter Quality, Flags have been attimeter Range and Backscatter Quality Flags have been attimeter Range and Backscatter Quality, Flags have been for one or more records.           CS_OFFL_SIR_NOPM_2_20191028T18028_1091028T180545_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter	CS_OFFL_SIR_NOPM_2_20191028T165139_20191028T165721_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T171759_20191028T171914_C001       and Backscatter Quality       and Backscatter Quality       and the OCGG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags       and the OCGG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range, SHA, SWH and Backscatter Quality Flags have been Altimeter Range,	CS_OFFL_SIR_NOPM_2_20191028T171536_20191028T171631_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20191028T171929_20191028T173650_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been         CS_OFFL_SIR_NOPM_2_20191028T174224_20191028T175051_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been         CS_OFFL_SIR_NOPM_2_20191028T17526_20191028T175051_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been         CS_OFFL_SIR_NOPM_2_20191028T175126_20191028T175452_C001       Ocean Altimeter Range, SSHA, SWH       The OCCGA Altimeter Range and Backscatter Quality Flags have been         CS_OFFL_SIR_NOPM_2_20191028T175937_20191028T180746_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T181100_20191028T182545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T181100_20191028T182545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T180740_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T181203_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T190838_20191028T	CS_OFFL_SIR_NOPM_2_20191028T171759_20191028T171914_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T174224_20191028T175051_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       File Ocean Altimeter Range and Backscatter Quality       File Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20191028T175126_20191028T175452_C001       Ocean Altimeter Range, and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T175937_20191028T180746_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T181100_20191028T182545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20191028T180545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20191028T180545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20191028T180545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Rang	CS_OFFL_SIR_NOPM_2_20191028T171929_20191028T173650_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T175126_20191028T175452_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T175937_20191028T180746_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_20191028T181100_20191028T182545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_NOPM_2_20191028T174224_20191028T175051_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T175937_20191028T180746_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T181100_20191028T182545_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T185933_20191028T190820_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Q	CS_OFFL_SIR_NOPM_2_20191028T175126_20191028T175452_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T181100_20191028T182545_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and backscatter Quality, OCOG and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T190838_20191028T191233_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T191236_20191028T191236_20191028T193446_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, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20191028T175937_20191028T180746_C001		
CS_OFFL_SIR_NOPM_2_20191028T185933_20191028T190820_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records.         CS_OFFL_SIR_NOPM_2_20191028T190838_20191028T191233_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 hard Backscatter Quality         CS_OFFL_SIR_NOPM_2_20191028T191236_20191028T193446_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags hard Backscatter Quality, Flags hard Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20191028T181100_20191028T182545_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T190838_20191028T191233_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20191028T191236_20191028T193446_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20191028T185933_20191028T190820_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191028T191236_20191028T193446_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20191028T190838_20191028T191233_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20191028T191236_20191028T193446_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20191028T193823_20191028T194027_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_20191028T194104_20191028T194623_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_20191028T195112_20191028T201254_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_20191028T204614_20191028T211302_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_20191028T212030_20191028T212632_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_20191028T212957_20191028T215603_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_20191028T221950_20191028T225131_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_20191028T225939_20191028T230506_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_20191028T230917_20191028T231256_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_20191028T234333_20191028T234336_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_20191028T234351_20191028T234650_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_20191028T144432_20191028T145013_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_20191028T162844_20191028T163021_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_20191028T171915_20191028T171928_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_20191028T194624_20191028T194855_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_20191028T030923_20191028T030929_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_20191028T040341_20191028T040431_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_20191028T055819_20191028T060516_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_20191028T182545_20191028T182828_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.

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Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20191028T001639_20191028T001709_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_20191028T012429_20191028T012853_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_20191028T013441_20191028T013559_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_20191028T035045_20191028T035216_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_20191028T035303_20191028T035440_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_20191028T040250_20191028T040340_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_20191028T041046_20191028T041216_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_20191028T044141_20191028T044323_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_20191028T045020_20191028T045245_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_20191028T045523_20191028T045641_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_20191028T052823_20191028T052837_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_20191028T053042_20191028T053346_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_20191028T062923_20191028T063343_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_20191028T070833_20191028T070956_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_20191028T071054_20191028T071446_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_20191028T073205_20191028T073455_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_20191028T090015_20191028T090034_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_20191028T090906_20191028T090943_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_20191028T094937_20191028T095115_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_20191028T103821_20191028T103841_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_20191028T105354_20191028T105459_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_20191028T105956_20191028T110057_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_20191028T111944_20191028T112102_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_20191028T121745_20191028T121826_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_20191028T122056_20191028T122225_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_20191028T122631_20191028T122642_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_20191028T122652_20191028T122742_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_20191028T125908_20191028T130021_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_20191028T130529_20191028T130843_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_20191028T144432_20191028T145013_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_20191028T153520_20191028T153549_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_20191028T162844_20191028T163021_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_20191028T173650_20191028T174105_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_20191028T175052_20191028T175126_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_20191028T183441_20191028T183824_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_20191028T183908_20191028T183936_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_20191028T185343_20191028T185932_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_20191028T193705_20191028T193823_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_20191028T201413_20191028T201510_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_20191028T201653_20191028T201750_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_20191028T202835_20191028T202859_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_20191028T203359_20191028T203503_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_20191028T212632_20191028T212755_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_20191028T221559_20191028T221949_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_20191028T225612_20191028T225939_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_20191028T235452_20191028T235716_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_20191028T235753_20191028T235841_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_20191028T003821_20191028T004609_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_20191028T003821_20191028T004609_C001 CS_OFFL_SIR_NOPR_2_20191028T013559_20191028T014011_C001	and Backscatter Quality PLRM, 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
	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20191028T013559_20191028T014011_C001	and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20191028T013559_20191028T014011_C001 CS_OFFL_SIR_NOPR_2_20191028T021817_20191028T022553_C001	and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, 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 have been
CS_OFFL_SIR_NOPR_2_20191028T013559_20191028T014011_C001 CS_OFFL_SIR_NOPR_2_20191028T021817_20191028T022553_C001 CS_OFFL_SIR_NOPR_2_20191028T031358_20191028T032025_C001	and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, 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 have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or More records.
CS_OFFL_SIR_NOPR_2_20191028T013559_20191028T014011_C001 CS_OFFL_SIR_NOPR_2_20191028T021817_20191028T022553_C001 CS_OFFL_SIR_NOPR_2_20191028T031358_20191028T032025_C001 CS_OFFL_SIR_NOPR_2_20191028T035722_20191028T040250_C001	and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20191028T013559_20191028T014011_C001 CS_OFFL_SIR_NOPR_2_20191028T021817_20191028T022553_C001 CS_OFFL_SIR_NOPR_2_20191028T031358_20191028T032025_C001 CS_OFFL_SIR_NOPR_2_20191028T035722_20191028T040250_C001 CS_OFFL_SIR_NOPR_2_20191028T045246_20191028T045523_C001	and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20191028T013559_20191028T014011_C001 CS_OFFL_SIR_NOPR_2_20191028T021817_20191028T022553_C001 CS_OFFL_SIR_NOPR_2_20191028T031358_20191028T032025_C001 CS_OFFL_SIR_NOPR_2_20191028T035722_20191028T040250_C001 CS_OFFL_SIR_NOPR_2_20191028T045246_20191028T045523_C001 CS_OFFL_SIR_NOPR_2_20191028T053624_20191028T054313_C001	and Backscatter Quaity PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20191028T093728_20191028T093936_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_20191028T095115_20191028T095431_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_20191028T104157_20191028T104337_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_20191028T104730_20191028T104924_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_20191028T111414_20191028T111943_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_20191028T112948_20191028T113404_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_20191028T122250_20191028T122521_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_20191028T125448_20191028T125907_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_20191028T130843_20191028T131226_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_20191028T143304_20191028T144002_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_20191028T155800_20191028T155950_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_20191028T161408_20191028T161627_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_20191028T161630_20191028T161833_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_20191028T164421_20191028T164542_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_20191028T182545_20191028T182828_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_20191028T202859_20191028T203358_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_20191028T211303_20191028T211623_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_20191028T212756_20191028T212957_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_20191028T220715_20191028T221558_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_20191028T225131_20191028T225612_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_20191028T230623_20191028T230916_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_20191028T233942_20191028T234234_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_20191028T234650_20191028T235451_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_20191028T235716_20191028T235753_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.

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.		
Number of products with errors:	63	
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:	129	