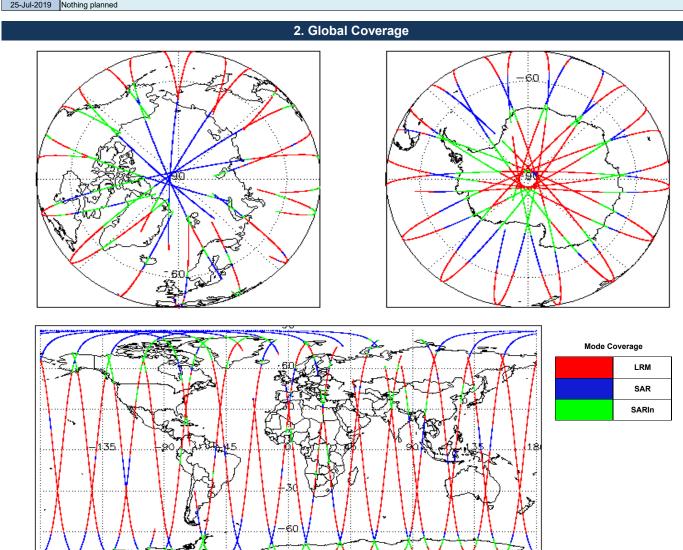


# IDEAS+ Daily Report for NOP data:

## 24/07/2019

1. Overview				
Demont Due du etie nu	25-Jul-2019	Check	L1 & L2	
eport Production:	25-Jui-2019	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	Cauchert Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	Product Format Check	Nominal	
		Product Header Analysis	Nominal	
		Auxiliary Data File Usage Check	Nominal	
		Auxiliary Correction Error Check	See Section 5.4	
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	
		Measurement Quality Flag Check	See Section 5.6	
		Ocean Retracking Quality Check	See Section 5.7	

WISSION / INStrument News		
23-Jul-2019	None	
24-Jul-2019	None	
25 101 2010	Nothing planned	



## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

0

4. NOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

#### 4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The 11b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN products because the 11b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next releas

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

### 4.4 L1B Auxiliary Correction Error Check

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

3

Number of products with errors:

#### 4.5 L1B Measurement Confidence Data Check

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

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190724T004541_20190724T005017_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190724T121452_20190724T122417_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190724T183316_20190724T190432_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

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#### Number of products with errors:

s:			

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190724T150959_20190724T154254_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190724T183316_20190724T190432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190724T211933_20190724T213012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T024302_20190724T024750_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T040132_20190724T040332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T041037_20190724T041131_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T041330_20190724T041416_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T073237_20190724T073341_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T090808_20190724T091305_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T100547_20190724T101158_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T103421_20190724T103543_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T104736_20190724T105149_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T140109_20190724T140703_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T160500_20190724T160706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T173332_20190724T173404_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T173825_20190724T173900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T205553_20190724T205739_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T213108_20190724T213701_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190724T222511_20190724T222614_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190724T054115_20190724T054156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190724T132724_20190724T132943_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

### Number of products with errors:

### 5.2 L2 Product Header Analysis

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

#### 5.3 L2 Auxiliary Data File Usage Check

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

### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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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.

Preduct         The Paids         Description         Description           CG, OFL, SR, NORM, 2, 20100/21110321, 20100/21110322, 2010         Meen Dammer Tapagraphy (1)         There is a more with the Main Dynamic Topagraphy (apply for an at the Company (1)           CG, OFL, SR, NORM, 2, 20100/21101322, 20100/21101323, 2001         Meen Dynamic Tapagraphy (1)         There is a more with the Main Dynamic Topagraphy (apply for an at the Company (1)           CG, OFL, SR, NORM, 2, 20100/21101322, 20100/21101322, 2001         Meen Dynamic Tapagraphy (1)         There is a more with the Main Dynamic Topagraphy (apply for an at the Dynamic Topagraphy (1)           CG, OFL, SR, NORM, 2, 20100/21101322, 20100/2110322, 2001         Meen Dynamic Tapagraphy (1)         There is a more with the Main Dynamic Topagraphy (apply for an at the Dynamic Topagraphy (1)           CG, OFL, SR, NORM, 2, 20100/2110322, 20100/2110322, 20100/2110322, 20100/2110322, 20100/2110323, 2001         Meen Dynamic Tapagraphy (1)         There is a more with the Main Dynamic Topagraphy (1)           CG, OFL, SR, NORM, 2, 20100/2110322, 20100/2110325, 2010         Meen Dynamic Tapagraphy (1)         There is a more with the Main Dynamic Topagraphy (1)           CG, OFL, SR, NORM, 2, 20100/2110322, 20100/2110323, 2010         Meen Dynamic Tapagraphy (1)         There is a more with the Main Dynamic Topagraphy (1)           CG, OFL, SR, NORM, 2, 20100/2110322, 20100/2110323, 2010         Meen Dynamic Tapagraphy (1)         There is a more with the Main Dynamic Tapagraphy (1)           CG, OFL, SR, NORM, 2, 20100/2110322, 2010		Toot Foiled	Description
Cort, Bar, Norek, 2. 2010/2110302. 2010/2110302. 2010         Mean Dynamic Toography (1)         There is a more reade.           Cort, Bar, Norek, 2. 2010/2110302. 2010/2110302. 2010         Mean Dynamic Toography (1)         There is a more reade.           Cort, Bar, Norek, 2. 2010/2110302. 2010/2110302. 2010         Mean Dynamic Toography (1)         There is a more reade.           Cort, Bar, Norek, 2. 2010/2110302. 2010/2110302. 2010/2110302. 2010         Mean Dynamic Toography (1)         There is a more reade.           Cort, Bar, Norek, 2. 2010/2110302. 2010			There is an error with the Mean Dynamic Topography height for one or
Back DML (2007)         Back DML (	CS_OFFL_SIR_NOPM_2_20190724T155527_20190724T155806_C001	Mean Dynamic Topography (1)	
Curr, Jan, Vorw, 2, 20107247100252, 20107247102520, 20101         Kate Dyacen Engogatery ()         Test is an end with the Table Department Topography (i)           Curr, Jan, Vorw, 2, 20107247100252, 20107247102520, 20101         Kate Dyacen Engogatery ()         Test is an end with the Table Department Topography (i)           Curr, Jan, Norw, 2, 20107247100250, 201017247102520, 20101         Kate Dyacen Topography (i)         Test is an end with the NSD height police Dipartment Topography (i)           Curr, Jan, Norw, 2, 201072471010250, 201017247102520, 20101         Kate Dyacen Topography (i)         Test is an end with the NSD height police Dipartment Topography (i)           Curr, Jan, Norw, 2, 201072471010250, 201017247102520, 20101         Kate Dyacen Topography (i)         Test is an end with the NSD height police Dipartment Topography (i)           Curr, Jan, Norw, 2, 20107247102527, 20107247113272, 20101         Kate Dyacen Topography (i)         Test is an end with the NSD height police Dipartment Topography (i)           Curr, Jan, Norw, 2, 20107247102527, 201072471132527, 20101         Kate Dyacen Topography (i)         Kate Dyacen Topography (i)         Test is an end with the NSD height police Dipartment Topography height for end or end end end of the or of the o	CS_OFFL_SIR_NOPN_2_20190724T000343_20190724T000533_C001	Mean Dynamic Topography (1)	
Base Driver	CS_OFFL_SIR_NOPN_2_20190724T001352_20190724T001609_C001	Mean Dynamic Topography (1)	, , , , , , , , , , , , , , , , , , , ,
Cort, Bit, Nork 2, 201072410804, 201072410826, 20107         Main Section (1) Main Direct           Cort, Bit, Nork 2, 201072410824, 201072410828, 2010         Main Section (1) Main Direct           Cort, Bit, Nork 2, 201072410824, 201072410828, 2011         Main Section (1) Main Direct           Cort, Bit, Nork 2, 201072410824, 201072410828, 2011         Main Section (1) Main Direct           Cort, Bit, Nork 2, 2010724108212, 201072410828, 2011         Main Section (1) Main Direct           Cort, Bit, Nork 2, 2010724108212, 201072410828, 2011         Main Direct Topography (1)           Main Direct Topography (1)         <	CS_OFFL_SIR_NOPN_2_20190724T010054_20190724T010522_C001	Mean Dynamic Topography (1)	
Construction         Comparative frequency frequency         Transparative frequency           CS, OFTL, BIN, NOPK 2, 201607247105320, 201907247105322, 20100         Mean Se suffice (1), Mean Dynamic         Transparative frequency           CS, OFTL, BIN, NOPK 2, 201607247105320, 201907247105322, 20100         Mean Se suffice (1), Mean Dynamic         Transparative frequency           CS, OFTL, BIN, NOPK 2, 201607247105320, 201907247105341, 20100         Mean Dynamic Transparative frequency         Transparative frequency           CS, OFTL, BIN, NOPK 2, 201607247105320, 201907247107341, C010         Mean Dynamic Transparative frequency         Transparative frequency <td>CS_OFFL_SIR_NOPN_2_20190724T024302_20190724T024750_C001</td> <td>Total Geocentric Ocean Tide (GOT)</td> <td></td>	CS_OFFL_SIR_NOPN_2_20190724T024302_20190724T024750_C001	Total Geocentric Ocean Tide (GOT)	
C3. DFL SII, NOPL 2 20190724705202.0100744705202.0001       Mean Se Suttee (1), Near Dynamic Toography (1)       Toography (1)       Toography (1)         C3. DFL SII, NOPL 2 20190724705202.0010       Mean Dynamic Toography (1)       Toography (1)       Toography (1)         C3. DFL SII, NOPL 2 20190724705202.0010       Mean Dynamic Toography (1)       Toography (1)       Tool is an orw with the MSD begit (calcular) 1 yeed the Mean Dynamic Toography (1)         C3. DFL SII, NOPL 2 20190724707227.201907247072341.0011       Mean Dynamic Toography (1)       Tool is an orw with the MSD begit (calcular) 1 yeed the Mean Dynamic Toography (1)         C3. DFL SII, NOPL 2 20190724707237.201907247072341.0011       Mean Dynamic Toography (1)       Toor is an orw with the MSD begit (calcular) 1 yeed the Mean Dynamic Toography (1)         C3. DFL SII, NOPL 2 20190724700281.2019074109180.0011       Mean Solute (1), Mean Dynamic Toography (1)       Toography (1)         C3. DFL SII, NOPL 2 201907247100281.2019074109180.0011       Mean Solute (1), Mean Dynamic Toography (1)       Toography (1)       Toography (1)         C3. DFL SII, NOPL 2 201907247104700.00174101180.0011       Mean Solute (1), Mean Dynamic Toography (1)       Toography (1)       Toography (1)       Toography (1)         C3. DFL SII, NOPL 2 201907247110470.00174101180.0011       Mean Solute (1), Mean Dynamic Toography (1)       Toography (1)       Toography (1)       Toography (1)       Too or nore recode Nore recod	CS_OFFL_SIR_NOPN_2_20190724T032315_20190724T032654_C001		
CG. OFFL. SIR. NORM. 2, 201907241109120, 201907241109120, 20101       Meas Dynamic Topography (1)       There is an energy with Nead Dynamic Topography height for one or more secold.         CG. OFFL. SIR. NORM. 2, 20190724110920, 201907241109242, 20101       Meas Dynamic Topography (1)       There is an energy with Nead Dynamic Topography height for one or more secold.         CG. OFFL. SIR. NORM. 2, 201907241109314, 201907241103934, 201907241	CS_OFFL_SIR_NOPN_2_20190724T050240_20190724T050558_C001	Mean Sea Surface (1), Mean Dynamic	
Topography (1)         Topography (1)         Topography (1)         Topography (1)           C2_OFFL_SIR_NONE_2_00107241005132_00107         Mean Dynamic Topography (1)         The is an error with the Mean Dynamic Topography height forms or one mecode           C3_OFFL_SIR_NONE_2_00107241003132_010774107333_1_0001         Mean Dynamic Topography (1)         The is an error with the Mean Dynamic Topography height foolds (1) for an error encode           C3_OFFL_SIR_NONE_2_00107241003132_010774107335_0001         Mean Dynamic Topography height (obdits) (1) for and me Mean Dynamic Topography height (obdits) (1) for an error encode           C3_OFFL_SIR_NONE_2_0010724100310_0001         Mean Dynamic Topography height (obdits) (1) for and me Mean Dynamic Topography height (obdits) (1) for an error encode           C3_OFFL_SIR_NONE_2_0010724110362_0101724110363_0001         Mean Dynamic Topography height (obdits) (1) for an error encode           C3_OFFL_SIR_NONE_2_0010724110362_0101724110363_0001         Mean Dynamic Topography (1)         The is an error with the Mean Dynamic Topography height (obdits) (1) for an error encode           C3_OFFL_SIR_NONE_2_0010724110363_010774113630_0001         Mean Dynamic Topography (1)         The is an error with the Mean Dynamic Topography height (obdits) (1) for an error encode           C3_OFFL_SIR_NONE_2_0010724113630_010774113630_0001         Mean Dynamic Topography (1)         The is an error with the Mean Dynamic Topography height (obdits) (1) for an error encode           C3_OFFL_SIR_NONE_2_0010724113630_010774113620_00001         Mean Dynamic Topography (1)	CS_OFFL_SIR_NOPN_2_20190724T051109_20190724T051235_C001	Mean Dynamic Topography (1)	
GG, GFL, SIR, NOPN 2, 201007241703571, 20100724170351 (2001)     Mean Dynamic Topography (1)     There is an error with Netwo Dynamic Topography height for one or income controls.       GG, GFL, SIR, NOPN 2, 201007241703281, 201007241701306, 2001     Mean Dynamic Topography (1)     There is an error with Netwo Dynamic Topography height for one or income controls.       GG, GFL, SIR, NOPN 2, 2010072417000008, 201007241701306, 2001     Mean Dynamic Topography (1)     There is an error with Netwo Dynamic Topography (1)       GG, GFL, SIR, NOPN 2, 201007241700008, 201007241701366, 2001     Mean Dynamic Topography (1)     There is an error with Netwo Dynamic Topography (1)       GG, GFL, SIR, NOPN 2, 201007241703561, 201007241701564, 201007241701564, 201007241701564, 201007241701564, 201007241701564, 201007241701564, 201007241701564, 201007241710566, 201007241705660, 201007241700576, 201007241710560, 201007241710560, 201007241710560, 201007241710560, 201007241710560, 201007241710560, 201007241710560, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 201007241710577, 2010072417105780, 2010072417007717105780, 2010072417007717105780, 2010072417007717105780, 2010072417007717105780, 2010072417007717105780, 2010072417007717105780, 2010072417007717105780,	CS_OFFL_SIR_NOPN_2_20190724T055329_20190724T055432_C001		
Corport         Corport <t< td=""><td>CS_OFFL_SIR_NOPN_2_20190724T065015_20190724T065122_C001</td><td>Mean Dynamic Topography (1)</td><td></td></t<>	CS_OFFL_SIR_NOPN_2_20190724T065015_20190724T065122_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20190724T105380100724T105180001 Teography (1) Teography (1) Teography (1) Teography (1) Teor is an error with teore errors is an error with teore errors is an error with teore is an error with teore is an error with teore errors is an error with teore errors is a strate (1). Mean Dynamic Teography teight (action 1) and the teor Dynamic Teography teight (action 1) and the teor Dynamic Teography teight (action 1) and the teor Dynamic Teography teight (action 1) and the teore Dynamic Teography teight (action 1) and the teore or errors errors with teore teoreds. CS_OFFL_SIR_NOPN_2_20190724T103207_20190724T103890001 Wean Dynamic Teography (1) Wean Sas Sufface (1). Mean Dynamic Teography teight (action 1) for on error errors with teored teoreds. CS_OFFL_SIR_NOPN_2_20190724T103207_20190724T10392_C001 Wean Dynamic Teography (1) We	CS_OFFL_SIR_NOPN_2_20190724T073237_20190724T073341_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPM_2_20190724109808_2019072410938_C001     Mean Ses Sufface (1), Mean Dynamic Tooporaphy height (oution 1) and the Mean Dynamic Tooporaphy height for one or more records       CS_OFFL_SIR_NOPN_2_201907241138272_00107241138272_0010724113826_001     Mean Dynamic Tooporaphy (1) Mean Dynamic Tooporaphy (1) Mean Ses Sufface (1), Mean Dynamic Tooporaphy height (oution 1) and the	CS_OFFL_SIR_NOPN_2_20190724T073344_20190724T073351_C001		
CB_OFIL_SIR_NOPN_2_20190724T10821_20190724T10512_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CB_OFIL_SIR_NOPN_2_20190724T10647_20190724T105140_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CB_OFIL_SIR_NOPN_2_20190724T108267_20190724T105400_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CB_OFIL_SIR_NOPN_2_20190724T10827_20190724T10320_C001         Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CB_OFIL_SIR_NOPN_2_20190724T10320_C0010724T103272_C001         Mean Dynamic Topography (1)         There is an error with the MSen Dynamic Topography (1)           CB_OFIL_SIR_NOPN_2_20190724T10307_20190724T145702_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CB_OFFL_SIR_NOPN_2_20190724T165012_20190724T145702_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography height for one or more records           CB_OFFL_SIR_NOPN_2_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T165012_20190724T150520_2001         Mean Dynamic Topography (1)         There	CS_OFFL_SIR_NOPN_2_20190724T090808_20190724T091305_C001	Mean Sea Surface (1), Mean Dynamic	
Corpert_sint_normintervert         Intervert         In	CS_OFFL_SIR_NOPN_2_20190724T092611_20190724T093006_C001		<b>o</b> ( )
CS_OFFL_SIR_NOPM_2_20190724T13826_20190724T13849_C001       Topography (1)       Topography (2)         CS_OFFL_SIR_NOPN_2_20190724T13826_20190724T13849_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T14517_20190724T14520_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T14507_20190724T140703_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T145070_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T145537_20190724T145700_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T145537_20190724T165629_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T185517_20190724T18642_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T185612_0190724T18642_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T18642_C0010724T18642_C001       Mean Sas Sufface (1) Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T18642_C0190724T18	CS_OFFL_SIR_NOPN_2_20190724T100547_20190724T101158_C001	Mean Dynamic Topography (1)	
CBEFFL_SIR_NOPM_2_201007241113520_20100724113250_0001         Troopgraphy (1)         Troopgraphy (1)         Troopgraphy (1)           CS_OFFL_SIR_NOPN_2_20100724113207_0100724113202_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724113207_0100724113272_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724114570_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724114570_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724114553_0100724114570_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724114553_0100724116562_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724118630_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724118630_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724118640_0010724118642_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20100724118640_	CS_OFFL_SIR_NOPN_2_20190724T104736_20190724T105149_C001		<b>3</b> ( )
CS_OFFL_SIR_NOPM_2_201907241132607_201907241132724_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (edution 1), the Geocentric Ocean Tide (FS), Non-Equilibrium Long Period Ocean Tide           CS_OFFL_SIR_NOPM_2_201907241140109_201907241140703_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (edution 1), the Geocentric Ocean Tide (FS), Non-Equilibrium Long Period Ocean Tide for one or more records           CS_OFFL_SIR_NOPM_2_201907241146537_201907241145700_0011         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography height for one or more records           CS_OFFL_SIR_NOPM_2_201907241165537_201907241165029_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography height for one or more records           CS_OFFL_SIR_NOPM_2_20190724116503_201907241165042_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography height for one or more records           CS_OFFL_SIR_NOPM_2_201907241162102_201907241165042_0001         Mean Dynamic Topography (1)         There is an error with the MeSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPM_2_201907241162102_0190724116504_001907241165042_001116_100 ne or more r	CS_OFFL_SIR_NOPN_2_20190724T113626_20190724T113849_C001		
CB_OFFL_SIR_NOPN_2_2019072411320001007241132724_0001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution 1), the CB_OFFL_SIR_NOPN_2_201907241140703_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution 1), the CB_OFFL_SIR_NOPN_2_201907241145537_201907241145700_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution 1), the CB_OFFL_SIR_NOPN_2_20190724116537_2019072411650629_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution 1), the Non-Equilibrium Long Period Ocean Tide for one or more records           CS_OFFL_SIR_NOPN_2_20190724116517_201907241163642_C001         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic T	CS_OFFL_SIR_NOPN_2_20190724T114517_20190724T114830_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20190724T140109_20190724T140109_20190724T140109_20190724T140109_20190724T145037_20190724T145537_20190724T145537_20190724T145537_20190724T145537_20190724T145537_20190724T150629_2001         Interest and the formation of the solution of the solithe solution of the solution of the solution of the solu	CS_OFFL_SIR_NOPN_2_20190724T132607_20190724T132724_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20190724116351_201907241163602_0001       wean Dynamic Topography (1)       more records         CS_OFFL_SIR_NOPN_2_201907241163517_201907241163642_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height for one or more records         CS_OFFL_SIR_NOPN_2_201907241163517_201907241181601_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_201907241181202_01907241182433_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_201907241182102_01907241195814_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_201907241205048_01907241205209_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_201907241220502_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724122301_000241222614_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724122325_019072417023225_001072417023225_0010       Mean Saa Surface (1)	CS_OFFL_SIR_NOPN_2_20190724T140109_20190724T140703_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and
CS_OFFL_SIR_NOPN_2_20190724T180517_20190724T163642_0001       Mean Dynamic Topography (1)       more records         CS_OFFL_SIR_NOPN_2_20190724T1635417_20190724T163642_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records         CS_OFFL_SIR_NOPN_2_20190724T181502_20190724T182433_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T182540_20190724T182433_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T195640_20190724T195614_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T205048_20190724T205209_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T213108_20190724T22301_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T2222614_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T223252_0190724T232525_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T023052_20190724T023022_001       Mean Sea Surface (1), Mean Dynamic Topography	CS_OFFL_SIR_NOPN_2_20190724T145537_20190724T145700_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20190724T1816317_20190724T181601_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T182102_20190724T182433_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T182540_20190724T195614_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T205048_20190724T205209_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tde (GOT)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tde (GOT)         CS_OFFL_SIR_NOPN_2_20190724T21306_20190724T213701_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T223215_20190724T223215_20190724T223251_20190724T223252_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T223255_20190724T223252_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T02400205_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topograp	CS_OFFL_SIR_NOPN_2_20190724T150513_20190724T150629_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20190724T181459_20190724T182433_C001         Topography (i)         Topography (i)         Topography (i)           CS_OFFL_SIR_NOPN_2_20190724T182102_20190724T182433_C001         Mean Sea Surface (1), Mean Dynamic         There is an error with the MSS height (solution 1) for one or more records           CS_OFFL_SIR_NOPN_2_20190724T195540_20190724T195814_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_20190724T205048_20190724T2050209_C001         Mean Sea Surface (1), Mean Dynamic         Topography (i)           CS_OFFL_SIR_NOPN_2_20190724T213108_20190724T213701_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_20190724T222511_20190724T222614_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_20190724T222515_20190724T222527_C001         Mean Sea Surface (1), Mean Dynamic         Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPN_2_20190724T2232325_20190724T223227_C001         Mean Sea Surface (1), Mean Dynamic         Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPN_2_20190724T024T023025_20190724T023227_C001         Mean Sea Surface (1), Mean Dynamic         Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPR_2_20190724T024T024204_20190724T024204_C001	CS_OFFL_SIR_NOPN_2_20190724T163517_20190724T163642_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20190724T162/102_20190724T195814_C001       Topography (1)       Topography (2)         CS_OFFL_SIR_NOPN_2_20190724T195540_20190724T195814_C001       Mean Sea Surface (1), Mean Dynamic       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T205048_20190724T205209_C001       Mean Sea Surface (1), Mean Dynamic       Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_NOPN_2_20190724T21308_20190724T213701_C001       Mean Sea Surface (1), Mean Dynamic       Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223201_C001       Mean Sea Surface (1), Mean Dynamic       Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223227_C001       Mean Sea Surface (1), Mean Dynamic       Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_NOPN_2_20190724T223255_20190724T223255_2010724T232555_2010       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_NOPR_2_20190724T023205_20190724T23255_20101724T00565_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T062032_C001       Mean Sea Surface (1), Mean Dynamic	CS_OFFL_SIR_NOPN_2_20190724T181459_20190724T181601_C001		
CS_OFFL_SIR_NOPN_2_20190724T205048_20190724T205209_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T205048_20190724T205209_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the MSS height (solution 1), and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T2213108_20190724T223015_20190724T222614_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223227_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223225_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T005625_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T05433_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topograp	CS_OFFL_SIR_NOPN_2_20190724T182102_20190724T182433_C001		
CS_OFFL_SIR_NOPN_2_20190724T205048_20190724T205209_C001       Topography (1), Total Geocentric Ocean       Topography height (solution 1) and the Total Geocentric Ocean       Tide (GOT)         CS_OFFL_SIR_NOPN_2_20190724T213108_20190724T213701_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T222511_20190724T222614_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223227_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T02325_20190724T23255_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T005652_20190724T0055_20190724T0053_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T005633_20190724T06232_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001 </td <td>CS_OFFL_SIR_NOPN_2_20190724T195540_20190724T195814_C001</td> <td></td> <td></td>	CS_OFFL_SIR_NOPN_2_20190724T195540_20190724T195814_C001		
CS_OFFL_SIR_NOPN_2_201907241213108_201907241213/01_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20190724T222511_20190724T222614_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223227_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20190724T032325_20190724T232325_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T005625_20190724T010053_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T041416_20190724T042204_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution	CS_OFFL_SIR_NOPN_2_20190724T205048_20190724T205209_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide height
CS_OFFL_SIR_NOPN_2_20190724T222511_20190724T222614_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography height for one or more recordsCS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223227_C001Mean 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 recordsCS_OFFL_SIR_NOPN_2_20190724T232325_20190724T232525_C001Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)CS_OFFL_SIR_NOPR_2_20190724T005625_20190724T010053_C001Mean 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 recordsCS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001Mean 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 recordsCS_OFFL_SIR_NOPR_2_20190724T0241416_20190724T042204_C001Mean 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 recordsCS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_20190724T091305_20190724T09238_C001Mean Sea Surface (1), Mean Dynamic Topography hei	CS_OFFL_SIR_NOPN_2_20190724T213108_20190724T213701_C001		
CS_OFFL_SIR_NOPN_2_201907241223015_201907241223227_C001         Topography (1)         Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPN_2_20190724T232325_20190724T232525_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_20190724T005625_20190724T010053_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPR_2_20190724T041416_20190724T04204_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records           CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001         Mean Sea Surf	CS_OFFL_SIR_NOPN_2_20190724T222511_20190724T222614_C001		There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20190724T232325_20190724T232525_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_20190724T005625_20190724T010053_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T024104_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T041416_20190724T042204_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T091305_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T07	CS_OFFL_SIR_NOPN_2_20190724T223015_20190724T223227_C001		
CS_OFFL_SIR_NOPR_2_20190724T00352_20190724T023304_20190724T024302_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T0241041416_20190724T042204_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T091305_20190724T074102_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T091305_20190724T092038_C001       Mean Sea Surf	CS_OFFL_SIR_NOPN_2_20190724T232325_20190724T232525_C001		There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T041416_20190724T042204_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_20190724T055433_20190724T060232_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_20190724T073351_20190724T074110_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_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073355_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T091305_20190724T092038_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20190724T005625_20190724T010053_C001		
CS_OFFL_SIR_NOPR_2_20190724T041416_20190724T042204_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T055433_20190724T060232_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T091305_20190724T092038_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solut	CS_OFFL_SIR_NOPR_2_20190724T023404_20190724T024302_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPR_2_20190724T091305_20190724T092038_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (	CS_OFFL_SIR_NOPR_2_20190724T041416_20190724T042204_C001		
CS_OFFL_SIR_NOPR_2_2019072410/3351_2019072410/4110_C001 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_NOPR_2_20190724T055433_20190724T060232_C001	Mean Sea Surface (1), Mean Dynamic	
CS_OFEL_SIR_NOPR_2_20190724T091305_20190724T092038_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20190724T073351_20190724T074110_C001		
	CS_OFFL_SIR_NOPR_2_20190724T091305_20190724T092038_C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic

CS_OFFL_SIR_NOPR_2_20190724T093937_20190724T094139_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_20190724T105149_20190724T105844_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		
	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: 3				
Product	Test Failed	Description		
CS_OFFL_SIR_NOPM_2_20190724T004541_20190724T005017_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		
CS_OFFL_SIR_NOPM_2_20190724T121452_20190724T122417_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		
CS_OFFL_SIR_NOPM_2_20190724T183316_20190724T190432_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records		

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20Hz)

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

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

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

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190723T233022_20190724T000203_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_20190724T000534_20190724T000747_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_20190724T000759_20190724T001352_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_20190724T001746_20190724T004209_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_20190724T004541_20190724T005017_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_20190724T011415_20190724T012444_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_20190724T013019_20190724T014050_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_20190724T014743_20190724T015204_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_20190724T015650_20190724T022301_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_20190724T022304_20190724T022459_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_20190724T022540_20190724T022721_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_20190724T024751_20190724T030357_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_20190724T030428_20190724T031905_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_20190724T032654_20190724T033232_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_20190724T033543_20190724T034015_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_20190724T041131_20190724T041330_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_20190724T042613_20190724T045901_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_20190724T050558_20190724T051109_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_20190724T051623_20190724T053252_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_20190724T055049_20190724T055124_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_20190724T055159_20190724T055204_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_20190724T060232_20190724T063750_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190724T064603_20190724T065014_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_20190724T065501_20190724T072046_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190724T073047_20190724T073237_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_20190724T074110_20190724T075535_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_20190724T080016_20190724T080152_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190724T080154_20190724T081712_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_20190724T082514_20190724T082719_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_20190724T083604_20190724T084830_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH 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_20190724T085039_20190724T090808_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190724T093006_20190724T093937_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_20190724T094139_20190724T095606_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_20190724T095902_20190724T100356_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_20190724T100431_20190724T100546_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_20190724T101256_20190724T101403_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_20190724T102957_20190724T103420_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_20190724T103543_20190724T104256_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_20190724T111930_20190724T113503_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_20190724T113849_20190724T114323_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_20190724T115042_20190724T121450_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_20190724T124931_20190724T131410_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_20190724T131718_20190724T132223_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_20190724T132243_20190724T132607_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_20190724T132943_20190724T134036_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_20190724T134611_20190724T140109_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_20190724T142458_20190724T142707_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_20190724T142712_20190724T145344_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_20190724T145700_20190724T150137_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_20190724T150959_20190724T154254_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_20190724T162657_20190724T162950_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_20190724T163642_20190724T164203_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_20190724T164904_20190724T171011_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_20190724T171257_20190724T172433_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_20190724T173405_20190724T173824_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_20190724T175419_20190724T175906_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_20190724T180054_20190724T181107_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_20190724T181708_20190724T182102_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_20190724T182814_20190724T183306_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_20190724T183316_20190724T190432_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_20190724T191802_20190724T194841_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_20190724T200737_20190724T202429_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_20190724T202909_20190724T203612_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_20190724T205210_20190724T205553_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_20190724T205739_20190724T211314_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_20190724T211933_20190724T213012_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_20190724T213701_20190724T213922_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_20190724T213955_20190724T214416_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_20190724T214654_20190724T220057_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_20190724T220237_20190724T221756_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_20190724T223932_20190724T224641_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_20190724T224804_20190724T225237_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_20190724T225601_20190724T231054_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_20190724T231449_20190724T232325_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_20190724T232642_20190724T234824_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_20190724T014613_20190724T014743_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_20190724T213108_20190724T213701_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_20190724T223810_20190724T223932_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_20190724T014050_20190724T014318_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

## L2 Quality Flags (20Hz PLRM)

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

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

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20190724T010054_20190724T010522_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_20190724T011056_20190724T011324_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_20190724T014318_20190724T014457_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_20190724T015204_20190724T015455_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_20190724T024302_20190724T024750_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_20190724T032315_20190724T032654_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_20190724T033232_20190724T033347_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_20190724T034929_20190724T035258_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_20190724T050240_20190724T050558_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_20190724T053253_20190724T053605_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_20190724T063953_20190724T064336_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_20190724T082719_20190724T082820_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_20190724T092611_20190724T093006_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_20190724T100547_20190724T101158_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_20190724T103421_20190724T103543_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_20190724T104256_20190724T104419_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_20190724T104736_20190724T105149_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_20190724T110900_20190724T111134_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_20190724T113626_20190724T113849_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_20190724T122417_20190724T122539_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_20190724T124027_20190724T124137_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_20190724T124557_20190724T124931_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_20190724T131602_20190724T131718_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_20190724T132607_20190724T132724_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_20190724T140109_20190724T140703_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_20190724T150513_20190724T150629_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_20190724T154501_20190724T154637_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_20190724T155830_20190724T155941_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_20190724T160403_20190724T160428_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_20190724T173825_20190724T173900_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_20190724T175053_20190724T175208_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_20190724T181459_20190724T181601_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_20190724T195540_20190724T195814_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_20190724T200008_20190724T200307_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_20190724T205048_20190724T205209_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_20190724T211827_20190724T211933_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_20190724T213108_20190724T213701_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_20190724T214417_20190724T214555_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_20190724T223015_20190724T223227_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_20190724T223347_20190724T223615_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_20190724T223810_20190724T223932_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_20190724T225253_20190724T225600_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_20190724T001610_20190724T001746_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_20190724T014050_20190724T014318_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_20190724T031905_20190724T032315_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_20190724T033347_20190724T033543_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_20190724T040726_20190724T041034_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_20190724T042337_20190724T042417_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_20190724T045901_20190724T050240_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_20190724T051235_20190724T051622_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_20190724T054317_20190724T054433_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_20190724T055204_20190724T055329_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_20190724T065122_20190724T065501_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_20190724T082905_20190724T083518_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_20190724T084830_20190724T085039_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_20190724T091305_20190724T092038_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_20190724T105149_20190724T105844_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_20190724T111239_20190724T111316_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_20190724T111318_20190724T111610_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_20190724T113503_20190724T113625_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_20190724T132724_20190724T132943_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_20190724T145344_20190724T145537_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_20190724T150629_20190724T150959_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_20190724T155806_20190724T155830_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_20190724T162529_20190724T162657_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_20190724T163209_20190724T163516_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_20190724T174415_20190724T174539_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_20190724T181107_20190724T181459_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_20190724T182433_20190724T182814_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_20190724T194841_20190724T195540_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_20190724T211314_20190724T211528_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_20190724T222422_20190724T222511_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_20190724T223615_20190724T223712_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_20190724T232526_20190724T232641_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	
L2 Quality Flags (1 Hz & 1Hz PLRM)			
Currently, there are several common flags raised in the Level 2 products, which are summarised below.			

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

167

58

132

Number of products with errors:

## 5.7 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20Hz)

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

Ocean Retracking Quality Flag: This flag is currently set for products falling at ocean/ land boundaries, but this is expected.

Number of products with errors:

### L2 Retracking Flags (20Hz, PLRM)

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

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