

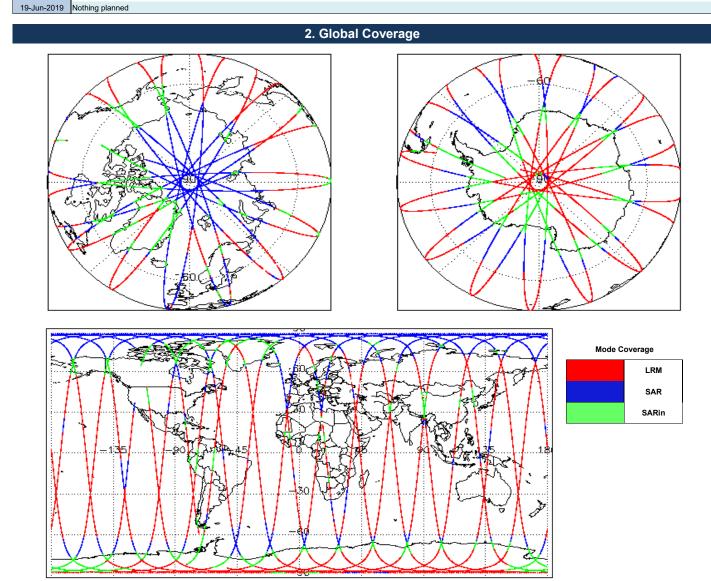
# IDEAS+ Daily Report for IOP data:

# <u>18/06/2019</u>

port Production:	21-Jun-2019	Check	L1 & L2	P2P
port Production.	21-3011-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CrucSat Occan Brosson	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
rocessor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

Overview

# Mission / Instrument News 17-Jun-2019 None 18-Jun-2019 None



# 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. IOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

Number of products with errors:

0

4.2 L1B Product Header Analysis		
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inco	nsistencies and/or errors raised by the ground-segment processing chain.
<b>_1B Processing Quality HR:</b> The I1b_proc_flag_hr flag is currently set all L1 DSARIn chains. A modification is required in the next release.	B IOPR and IOPN products becau	se the l1b_processing_quality_hr field is not correctly configured in the OSAR and
Number of products with errors: 0		
4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement reco	rd. The bit value of this flag indicat	es any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measure	ment record. The bit value of this f	ag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR produ		
Number of products with errors: 0	-	
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement recor	d. The bit value of this flag indicate	es any problems when set
.oss of Echo Flag: This flag is currently set for products over land, but this is	-	
Number of products with errors: 21		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20190618T100412_20190618T101848_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190618T111401_20190618T112637_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190618T131020_20190618T131031_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190618T150241_20190618T150316_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190618T151257_20190618T153802_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20190618T235253_20190618T235352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T005818_20190618T010006_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T014510_20190618T014912_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T023634_20190618T023857_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T081503_20190618T081720_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T113357_20190618T113612_C001	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001		
S_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001 S_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001 S_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001 S_OFFL_SIR_IOPR1B_20190618T031927_20190618T032435_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001         S_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001         S_OFFL_SIR_IOPR1B_20190618T031927_20190618T032435_C001         S_OFFL_SIR_IOPR1B_20190618T045825_20190618T050633_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
SS_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001         SS_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001         SS_OFFL_SIR_IOPN1B_20190618T031927_20190618T032435_C001         SS_OFFL_SIR_IOPR1B_20190618T045825_20190618T050633_C001         SS_OFFL_SIR_IOPR1B_20190618T080348_20190618T081024_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
SS_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001         SS_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001         SS_OFFL_SIR_IOPN1B_20190618T031927_20190618T032435_C001         SS_OFFL_SIR_IOPR1B_20190618T045825_20190618T050633_C001         SS_OFFL_SIR_IOPR1B_20190618T080348_20190618T081024_C001         SS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081024_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001 CS_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001 CS_OFFL_SIR_IOPR1B_20190618T031927_20190618T032435_C001 CS_OFFL_SIR_IOPR1B_20190618T045825_20190618T050633_C001 CS_OFFL_SIR_IOPR1B_20190618T080348_20190618T081024_C001 CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001 CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001 CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T113357_20190618T113612_C001           CS_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001           CS_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001           CS_OFFL_SIR_IOPN1B_20190618T031927_20190618T032435_C001           CS_OFFL_SIR_IOPR1B_20190618T045825_20190618T050633_C001           CS_OFFL_SIR_IOPR1B_20190618T080348_20190618T081024_C001           CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001           CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001           CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001           CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001           CS_OFFL_SIR_IOPR1B_20190618T105222_20190618T081503_C001           CS_OFFL_SIR_IOPR1B_20190618T112839_20190618T113011_C001           CS_OFFL_SIR_IOPR1B_20190618T112839_20190618T113011_C001           CS_OFFL_SIR_IOPR1B_20190618T112839_120190618T1350241	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20190618T123731_20190618T123930_C001 CS_OFFL_SIR_IOPN1B_20190618T163746_20190618T163819_C001 CS_OFFL_SIR_IOPR1B_20190618T031927_20190618T032435_C001 CS_OFFL_SIR_IOPR1B_20190618T045825_20190618T050633_C001 CS_OFFL_SIR_IOPR1B_20190618T080348_20190618T081024_C001 CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T081503_C001 CS_OFFL_SIR_IOPR1B_20190618T081259_20190618T08558_C001 CS_OFFL_SIR_IOPR1B_20190618T105222_20190618T105758_C001 CS_OFFL_SIR_IOPR1B_20190618T112839_20190618T113011_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records         The tracking echo is missing for one or more records

#### 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. 0

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:

0

0

#### 5.4 L2 Auxiliary Correction Error Check

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

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

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

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

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

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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.

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190618T013018_20190618T013702_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPM_2_20190618T014912_20190618T014926_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPM_2_20190618T045344_20190618T045647_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20190618T102430_20190618T104038_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20190618T131020_20190618T131030_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPM_2_20190618T150241_20190618T150315_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T000501_20190618T000605_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T000918_20190618T001125_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T005818_20190618T010006_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T014414_20190618T014505_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T014510_20190618T014912_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20190618T032435_20190618T032854_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T040854_20190618T041100_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20190618T054649_20190618T055008_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T072541_20190618T072901_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T073424_20190618T073548_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T081503_20190618T081720_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20190618T081723_20190618T081758_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T091243_20190618T091418_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T095557_20190618T095658_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T113011_20190618T113215_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T113357_20190618T113612_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T123731_20190618T123930_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	#N/A
CS_OFFL_SIR_IOPN_2_20190618T131031_20190618T131439_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T140956_20190618T141159_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T171909_20190618T172034_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20190618T182002_20190618T182051_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20190618T185836_20190618T190002_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS OFFL SIR IOPN 2 20190618T190514 20190618T190817 C001	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CS OFFL SIR IOPN 2 20190618T203856 20190618T204156 C001	Topography (1) Mean Dynamic Topography (1)	Topography height (solution 1) There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_IOPN_2_20190618T204416_20190618T204933_C001	Mean Sea Surface (1), Mean Dynamic	more records There is an error with the MSS height (solution 1) and the Mean Dynamic
	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_IOPN_2_20190618T213511_20190618T213556_C001	Topography (1)	Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T213603_20190618T213921_C001	Mean Sea Surface (1) Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS 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_IOPN_2_20190618T221852_20190618T222127_C001	Topography (1)	Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T231403_20190618T231517_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20190618T231703_20190618T231936_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20190618T235352_20190618T235952_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190618T000036_20190618T000227_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T000228_20190618T000501_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T001421_20190618T001535_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190618T013702_20190618T013810_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20190618T013810_20190618T014414_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T031927_20190618T032435_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T044725_20190618T044834_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190618T044845_20190618T044922_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190618T045825_20190618T050633_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T063659_20190618T064539_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T081758_20190618T082542_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T095658_20190618T100241_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T112839_20190618T113011_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPR_2_20190618T113612_20190618T114035_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T114035_20190618T114305_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20190618T131439_20190618T132000_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T145301_20190618T150241_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T163012_20190618T163746_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T180914_20190618T181605_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T181605_20190618T181850_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T194749_20190618T195504_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T195504_20190618T195728_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T212932_20190618T213359_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T213359_20190618T213511_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T230723_20190618T231229_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20190618T231229_20190618T231403_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)

# 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: 2 Product Test Failed Description CS\_OFFL\_SIR\_IOPM\_2\_20190618T105758\_20190618T111148\_C001 Power scaling error There is an error in the scaling of the L2 waveform for one or more records CS\_OFFL\_SIR\_IOPM\_2\_20190618T182443\_20190618T182622\_C001 Power scaling error There is an error in the scaling of the L2 waveform for one or more records

#### 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20Hz)

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

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

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

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

Number of products with errors: 74

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190618T001535_20190618T002508_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T003213_20190618T004540_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T004954_20190618T005817_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T010054_20190618T012318_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T015920_20190618T022524_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T023139_20190618T023634_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T024053_20190618T030451_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T033804_20190618T034759_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T035338_20190618T040354_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T041100_20190618T041659_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T041918_20190618T044702_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T044706_20190618T044724_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T045113_20190618T045301_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T045344_20190618T045647_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T050948_20190618T054257_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T055008_20190618T055530_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T055845_20190618T060148_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T063323_20190618T063659_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T064852_20190618T065808_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190618T070053_20190618T072230_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T073017_20190618T073424_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T073827_20190618T074928_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T075115_20190618T075715_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T082543_20190618T090104_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T092008_20190618T095112_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T100412_20190618T101848_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T102430_20190618T104038_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T104256_20190618T104806_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T104844_20190618T105014_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T105758_20190618T111148_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T111401_20190618T112637_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T112716_20190618T112839_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T115331_20190618T120349_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T120529_20190618T121942_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T122217_20190618T122717_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T122742_20190618T122752_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T122757_20190618T122859_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T123553_20190618T123731_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T123930_20190618T125005_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T125207_20190618T125739_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T133627_20190618T135805_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T140253_20190618T140634_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T140640_20190618T140649_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T140655_20190618T140956_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190618T141329_20190618T143939_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

BL 0PH1_ER_0PH12_201000001110000_2010001110000_201001     Control Link 0, Dubby 2, 20100001110000_201001110000_201001       BL 0PH1_ER_0PH12_20100001110000_2010001110000_20100     Control Link 0, Dubby 2, 20100001110000_2010001110000_201001       BL 0PH1_ER_0PH12_20100001110000_2010001110000_20100     Control Link 0, Dubby 2, 20100001110000_2010001110000_201001       BL 0PH1_ER_0PH12_20100001110000_2010001110000_201001     Control Link 0, Dubby 2, 20100001110000_20100011110000_201001       BL 0PH1_ER_0PH12_20100001110000_20100011110000_201001     Control Link 0, Dubby 2, 201000011110000_20100011110000_2010001       BL 0PH1_ER_0PH12_201000011110000_20100011110000_2010001     Control Link 0, Dubby 2, 201000011110000_20100011110000_20100011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_201000011110000_2010000011110000_2010000011110000_201000011110000_201000011110000_20100000100000000			
Construction         Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	CS_OFFL_SIR_IOPM_2_20190618T151257_20190618T153801_C001	Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
G2     CPFL_SRL_INIT_2_2119918110030     Allense Rage_Cally Outs     The Outsman of DOC Allense Rage_Cally Outs       G3     CPFL_SRL_INIT_2_2119918110030     District Cally Outs     The Outsman of Data and Status       G3     CPFL_SRL_INIT_2_2119918110030     District Cally Outs     District Cally Outs       G4     CPFL_SRL_INIT_2	CS_OFFL_SIR_IOPM_2_20190618T154035_20190618T154547_C001		
CS     CPHL SPH CPHL 2. 201000181100282. 201000181100211.     CPHL SPH CPHL 2. 201000181100282. 201000181100201.     CPHL SPH CPHL 2. 201000181100282. 201000181100201.     CPHL SPH CPHL 2. 201000181100281. 201000181100201.     CPHL SPH CPHL 2. 201000181100281. 201000181100281. 201000181100281.     CPHL SPH CPHL 2. 201000181110221. 2010001811100201. 20100181100281. 20100181100281. 20100181100281. 201001811100281. 2010001811100281. 2010001811100281. 201001811100281. 2010018111	CS_OFFL_SIR_IOPM_2_20190618T155306_20190618T160350_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
GR_0PPL_SR_0PPL_2_0000018T1V2004_20100000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20190618T160928_20190618T162614_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
Description         Description         Description         Description           Cols. OFFL_SR_UORA_2_20180618712555_0001         Cols. Million Range Quilly, Cols. Status         Cols. Million Range Quilly, Cols. Status           Cols. OFFL_SR_UORA_2_20180618712555_0001         Cols. Million Range Quilly, Cols. Status         In: Cols. Million Range Quilly, Cols. Status           Cols. OFFL_SR_UORA_2_20180618718655_0001         Cols. Million Range Quilly, Cols. Status         In: Cols. Million Range Quilly, Cols. Status           Cols. OFFL_SR_UORA_2_20180618718651_0001         Cols. Million Range Quilly, Cols. Milli	CS_OFFL_SIR_IOPM_2_20190618T164010_20190618T164027_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
D5.0FTL_SR_UOM_2.2019619170258_0199019170258_000         Methods (Forge Calls) Codes Statk Daily)         Codes and CODE Allinear Party E.SHA, SMH and Backastler Daily           D5.0FTL_SR_UOM_2.20196019170258_0199019170258_000         Description of the statk of and an end and the statk of the end and the statk of an end and the statk of the end and the statk of the end and the statk of an end and the statk of an end and the statk of the end a	CS_OFFL_SIR_IOPM_2_20190618T172034_20190618T172621_C001		
GS_0FTL_SIR_0FM_2_20190618T181112_01120618T18584_001     Allender Rage DSHA Datify     The Open and 0000 Allender Rage SHA, SMH and Backsoatter Datify       GS_0FTL_SIR_0FM_2_20190618T18010_20190018T18010_001     DOGO Allender Rage DSHA DATIG     The Open and 0000 Allender Rage SHA, SMH and Backsoatter Datify       GS_0FTL_SIR_0FM_2_20190618T18010_20190018T18010_001     DOGO Allender Rage DSHA DATIG     The Open and 0000 Allender Rage SHA DATIG       GS_0FTL_SIR_0FM_2_20190618T18010_2019018T18020_001     DOGO Allender Rage DSHA DATIG     The Open and 0000 Allender Rage SHA DATIG       GS_0FTL_SIR_0FM_2_00190618T18020_001     DOGE Allender Rage DSHA DATIG     The Open and 0000 Allender Rage SHA DATIG       GS_0FTL_SIR_0FM_2_00190618T18020_0018T18020_001     DOGE Allender Rage DSHA DATIG     The Open and 0000 Allender Rage SHA DATIG       GS_0FTL_SIR_0FM_2_00190618T18020_0018T18020_001     DOGE Allender Rage DSHA DATIG     DOGE Allender Rage DSHA DATIG       GS_0FFL_SIR_0FM_2_00190618T18020_0018T18020_001     DOGE Allender Rage DSHA DATIG     DOGE Allender Rage DSHA DATIG       GS_0FFL_SIR_0FM_2_00190618T18020_0018T18020_001     DATIG     DATIG     DATIG       DATIG     DATIG     DATIG     DATIG     DATIG       DATIG     DATIG     DATIG     DATIG     DATIG       GS_0FFL_SIR_0FM_2_0019018T20512_0019018T20542_001     DATIG     DATIG     DATIG       GS_0FFL_SIR_0FM_2_0019018T20542_0019018T20572_001     DATIG     DATIG     DATIG	CS_OFFL_SIR_IOPM_2_20190618T173258_20190618T180555_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
Bit JPHC_SHLUPHL 2, 20180616119002, 20180616119003, 2001     Backscatter Quality, Occor SHL     Sec. OFFL_SHLUPHL 2, 201806161191169, 20190616119328, 2001     Call Sec. SHL     Case and OCCOR Attracter Regr Quality, Occor     Case and OCCOR Attracter Regr Quali	CS_OFFL_SIR_IOPM_2_20190618T184118_20190618T185549_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
CS_OFFL_SIR_JOPM_2_201906181714322       Allineter Range Clairly, Ocean       SMH         CS_OFFL_SIR_JOPM_2_201906181714322       2019061817163221_201906181716322       To Cosan and COG Allineter Range, SSHA, SWH and Backscatter         CS_OFFL_SIR_JOPM_2_2019061817163221_201906181716720442_001       Cosan Attracter Range, Clairly, Ocean       Cosan Attracter Range, Clairly, Ocean         CS_OFFL_SIR_JOPM_2_201906181716720442_001       Cosan Attracter Range, Clairly, Ocean       Cosan Attracter Range, Clairly, Ocean         CS_OFFL_SIR_JOPM_2_201906181716720442_001       Cosan Attracter Range, Clairly, Ocean       Cosan Attracter Range, Clairly, Ocean         CS_OFFL_SIR_JOPM_2_201906187215720_0100187201442_001       Cosan Attracter Range, Clairly, Ocean       Cosan Attracter Range, Clairly, Ocean         CS_OFFL_SIR_JOPM_2_20190618721582_010018721727_001       Cosan Attracter Range, Clairly, Ocean       To Cosan and OCOG Allineter Range, SHA, SWH and Backscatter         CS_OFFL_SIR_JOPM_2_20190618721582_0100018721272_01001       Cosan Attracter Range, Clairly, Ocean       To Cosan and OCOG Allineter Range, SHA, SWH and Backscatter         CS_OFFL_SIR_JOPM_2_20190618721582_0100018721272_01001       Cosan Attracter Range, Clairly, Ocean       The Cosan and OCOG Allineter Range, SHA, SWH and Backscatter         CS_OFFL_SIR_JOPM_2_201906187215827_01906187215801_0_001       Cocan Attracter Range, Clairly, Ocean       The Cosan and OCOG Allineter Range, SHA, SWH and Backscatter         CS_OFFL_SIR_JOPM_2_201906187215827_01906187215201_0_001       <	CS_OFFL_SIR_IOPM_2_20190618T190002_20190618T190513_C001	Backscatter Quality	5 , S
CS_OFFL_SR_IOPM_2_20190618118321_201006181191440_0001       Attimister Range Quality, Cocen SMM Quality, Ocen SMM Qu	CS_OFFL_SIR_IOPM_2_20190618T191149_20190618T193326_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
CS_OFFL_SIR_IOPM_2_20190618T196728_20190618T196932_C001       Admeter Range Quality, Ocean SMA Duality, Coexe SMA Backscatter Range Duality, Ocean SMA Duality, Coexe SMA Backscatter Range Duality, Ocean SMA Quality, Coexe SMA Duality, Coexe SMA Backscatter Range Duality, Ocean SMA Duality, Coexe	CS_OFFL_SIR_IOPM_2_20190618T193521_20190618T194749_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
CS_OFFL_SIR_IOPM_2_20190618T201516_20190618T20343_0001       Alimeter Range Quality, Ocean SH4 Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Alimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20190618T205139_20190618T212747_C001       Coean Alimeter Range Quality, OCOG Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality       The Ocean and OCOG Alimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20190618T215901_0001       Alimeter Range Quality, OCOG Alimeter Range Quality, OCOG Alimeter Range Quality, OCOG Alimeter Range Quality, OCean Backscatter Quality, OCOG Backscatter Quality       The Ocean and OCOG Alimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20190618T215901_0001       Alimeter Range Quality, OCOG Alimeter Range Quality, OCOG Alimeter Range Quality, OCean Backscatter Quality       The Ocean and OCOG Alimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20190618T221227_20190618T221227_C001       OCOG Alimeter Range Quality, OCOG Backscatter Quality       The Ocean and OCOG Alimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20190618T22217_20190618T222127_C001       OCOG Alimeter Range Quality, OCOG Backscatter Quality       The Ocean and OCOG Alimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20190618T22217_20190618T22217_001001       OCOG Alimeter Range Quality, OCOG Backscatter Quality       The OCOG Alimeter Range SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20190618T2231703_C001       OCOG Alimeter Range Quality, OCOG Backscatter Quality	CS_OFFL_SIR_IOPM_2_20190618T195728_20190618T195932_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
CS_OFFL_SIR_JOPM_2_201906187205139_201906187212747_C001       Altimeter Range Quality, Ocean SMH Quality, Ocean SMH Quality, Coean SMH Quality,	CS_OFFL_SIR_IOPM_2_20190618T201516_20190618T203443_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
CS_OFFL_SIR_IOPM_2_20190618T213957_20190618T215901_C001       Altimeter Range Quality, Ocean SHA Backscatter Quality, OCCO Autity, Ocean Altimeter Range Quality, OCCO Backscatter Quality	CS_OFFL_SIR_IOPM_2_20190618T205139_20190618T212747_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
CS_OFFL_SIR_IOPM_2_201906187215927_201906187221227_C001       Altimeter Range Quality, Occean SNHA Quality, Occean SWH Quality	CS_OFFL_SIR_IOPM_2_20190618T213957_20190618T215901_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
CS_OFFL_SIR_IOPM_2_20190618122210_20190618122232_0001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_2019061812223040_201906181222827_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190618T231936_20190618T233628_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190618T2315	CS_OFFL_SIR_IOPM_2_20190618T215927_20190618T221227_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
CS_OFFL_SIR_IOPM_2_201906181222304_2019061812224547_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_20190618T223040_20190618T224547_C001       Ocean Atlineter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SSHA Quality,	CS_OFFL_SIR_IOPM_2_20190618T222127_20190618T222323_C001		
CS_OFFL_SIR_IOPM_2_20190618T223040_20190618T224547_C001       Attimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, OCOG Backscatter Quality       The Ocean and OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190618T224749_20190618T225709_C001       Attimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SSHA Quality       The Ocean and OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190618T231517_20190618T231703_C001       OCOG Attimeter Range Quality, OCOG Backscatter Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SSHA Quality, Ocean SWH Cs_OFFL_SIR_IOPM_2_20190618T231936_20190618T233628_C001       OCOG Attimeter Range Quality, OCOG Attimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality,	CS_OFFL_SIR_IOPM_2_20190618T222501_20190618T222827_C001		
CS_OFFL_SIR_IOPM_2_20190618T224749_20190618T225709_C001       Attimeter Range Quality, Ocean SSHA Quality, Ocean SSHA Quality, Ocean SWH Quality, Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20190618T231517_20190618T231703_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, Ocean SHA Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SHA Quality, O	CS_OFFL_SIR_IOPM_2_20190618T223040_20190618T224547_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
CS_OFFL_SIR_IOPM_2_201906181231517_201906181231703_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_201906187231936_201906187233628_C001       Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SWH Quality, OCOG Backscatter Quality Flags have been set for one or more records.       The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190618T095557_20190618T095658_C001       Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SHA Quality, Ocean SWH Quality, Ocean SHA Quality, Ocean SHA Quality, Ocean SWH Quality, Ocean SHA Quality, Ocean SHA Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean SWH Quality, Iter Parts Parts Quality, Iter Parts Pa	CS_OFFL_SIR_IOPM_2_20190618T224749_20190618T225709_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
CS_OFFL_SIR_IOPM_2_20190618T231936_20190618T233628_C001       Attimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality       The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190618T095557_20190618T095658_C001       Ocean Altimeter Range Quality, Ocean Backscatter Quality, Ocean Altimeter Range Quality, Ocean SWH Quality, Ocean Backscatter Quality, Ocean SWH Quality, Ocean Backscatter Quality, Ocean Backscatte	CS_OFFL_SIR_IOPM_2_20190618T231517_20190618T231703_C001		
CS_OFFL_SIR_IOPN_2_20190618T095557_20190618T095658_C001       Attimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean SWH Backscatter Quality, OCOG Backscatter Quality       The Ocean and OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20190618T133055_20190618T133453_C001       OCOG Attimeter Range Quality, OCCOG       The OCCOG Attimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20190618T231936_20190618T233628_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	
CS OFEL SIR IOPN 2 201906181133055 201906181133453 C001	CS_OFFL_SIR_IOPN_2_20190618T095557_20190618T095658_C001	Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter	
	CS_OFFL_SIR_IOPN_2_20190618T133055_20190618T133453_C001		

CS_OFFL_SIR_IOPN_2_20190618T154922_20190618T155048_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190618T060326_20190618T060613_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190618T122717_20190618T122724_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190618T193326_20190618T193521_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190618T203443_20190618T203856_C001	Ocean Altimeter Range Quality, OCOG Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean and OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (20Hz PLRM)

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

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

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

Number of	products with errors:	95	
	producto manenoro.	00	

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20190618T000005_20190618T000036_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T000918_20190618T001125_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T002718_20190618T003213_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T005818_20190618T010006_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T012453_20190618T012841_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T012917_20190618T013018_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T014510_20190618T014912_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T022735_20190618T022854_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T023052_20190618T023139_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T023634_20190618T023857_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T031710_20190618T031748_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T032435_20190618T032854_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T054649_20190618T055008_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T055530_20190618T055649_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T060946_20190618T061108_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T061743_20190618T061927_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T062950_20190618T063004_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T064539_20190618T064852_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T090212_20190618T090408_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T095557_20190618T095658_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T105014_20190618T105222_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T113357_20190618T113612_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T115121_20190618T115331_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T122030_20190618T122217_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190618T125005_20190618T125207_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20190618T131031_20190618T131439_C001
CS_OFFL_SIR_IOPN_2_20190618T132000_20190618T132027_C001
CS_OFFL_SIR_IOPN_2_20190618T133055_20190618T133453_C001
CS_OFFL_SIR_IOPN_2_20190618T135953_20190618T140253_C001
CS_OFFL_SIR_IOPN_2_20190618T140956_20190618T141159_C001
CS_OFFL_SIR_IOPN_2_20190618T144134_20190618T144430_C001
CS_OFFL_SIR_IOPN_2_20190618T172823_20190618T172937_C001
CS_OFFL_SIR_IOPN_2_20190618T180555_20190618T180914_C001
CS_OFFL_SIR_IOPN_2_20190618T182002_20190618T182051_C001
CS_OFFL_SIR_IOPN_2_20190618T182622_20190618T182633_C001
CS_OFFL_SIR_IOPN_2_20190618T183540_20190618T183725_C001
CS_OFFL_SIR_IOPN_2_20190618T185836_20190618T190002_C001
CS_OFFL_SIR_IOPN_2_20190618T201428_20190618T201516_C001
CS_OFFL_SIR_IOPN_2_20190618T204416_20190618T204933_C001
CS_OFFL_SIR_IOPN_2_20190618T213603_20190618T213921_C001
CS_OFFL_SIR_IOPN_2_20190618T225710_20190618T230047_C001
CS_OFFL_SIR_IOPN_2_20190618T231403_20190618T231517_C001
CS_OFFL_SIR_IOPN_2_20190618T231703_20190618T231936_C001
CS_OFFL_SIR_IOPN_2_20190618T233628_20190618T234021_C001
CS_OFFL_SIR_IOPN_2_20190618T234039_20190618T234109_C001
CS_OFFL_SIR_IOPR_2_20190618T000036_20190618T000227_C001
CS_OFFL_SIR_IOPR_2_20190618T001421_20190618T001535_C001
CS_OFFL_SIR_IOPR_2_20190618T012319_20190618T012425_C001
CS_OFFL_SIR_IOPR_2_20190618T013702_20190618T013810_C001
CS_OFFL_SIR_IOPR_2_20190618T014926_20190618T015212_C001
CS_OFFL_SIR_IOPR_2_20190618T015658_20190618T015920_C001
CS_OFFL_SIR_IOPR_2_20190618T031517_20190618T031710_C001
CS_OFFL_SIR_IOPR_2_20190618T033631_20190618T033804_C001
CS_OFFL_SIR_IOPR_2_20190618T040354_20190618T040700_C001
CS_OFFL_SIR_IOPR_2_20190618T045647_20190618T045814_C001
CS_OFFL_SIR_IOPR_2_20190618T045825_20190618T050633_C001
CS_OFFL_SIR_IOPR_2_20190618T054257_20190618T054649_C001
CS_OFFL_SIR_IOPR_2_20190618T055649_20190618T055845_C001

Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatte Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality. Ocean Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM. OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality. Ocean Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

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The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The OCOG Range and Backscatter Quality Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20190618T062402_20190618T062804_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_IOPR_2_20190618T063011_20190618T063208_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_IOPR_2_20190618T063659_20190618T064539_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter Flags have been set for one or more records.	
CS_OFFL_SIR_IOPR_2_20190618T072230_20190618T072541_C001	Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags, and the OCOG Altimeter Range and Backscatter 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 p	products over sea ice, which is to be expected		
Number of products with errors: 197			
5.8 L2 Ocean Retracking Quality Check			
L2 Retracking Flags (20Hz)			
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz meas	urement record. The bit value of this flag indic	ates any problems when set.	
Ocean Retracking Quality Flag: This flag is currently set for products over lan			
Number of products with errors: 70			
L2 Retracking Flags (20Hz, PLRM)			
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM	I measurement record. The bit value of this fla	g indicates any problems when set.	
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products	IOPR and IOPN products over sea ice, but th	is is to be expected.	
Number of products with errors: 153			
6. IOP L2	2 Pole-to-Pole Data Quality	Check	
6.1 P2P Product Format Check			
	n ann 14 ann 11 de a Ghadh an MAIL bas dan Gha ( 1		
Each product, retrieved and unpacked from the science server, is checked to ex Number of products with errors: 0	nsure il consists of doth an AML header file (.r	and a Neicor product life (.nc).	
6.2 P2P Product Header Analysis			
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.	
Number of products with errors: 0			
6.2 P2P Auxiliany Pata File Haans Chack			
6.3 P2P Auxiliary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pre- Number of products with errors: 0	-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.	
6.4 P2P Auxiliary Correction Error Check			
For all products, the auxiliary corrections within the Geophysical Group are che	cked for the default error value (32767).		
Currently, there are some common auxiliary correction errors raised in th		to surface type. All common flags are summarised in the list below,	
followed by a table highlighting any additional issues which may arise fro > ECMWF Meteo Corrections: Currently the following corrections are not com and the U-Wind and V-Wind components of the ECMWF model wind vector. Th	puted over CONTINENTAL ICE: Dry Tropospl		
in the table below.			
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for		ed.	
> Mean Sea Surface: The error value is currently set for products over land an			
> Mean Dynamic Topography: The error value is currently set for products ov	•		
> Altimetric Wind Speed Error: The error value is currently set for products or Number of products with errors: 30	ver land and sea ice, but this is to be expected		
Product	Test Failed Mean Sea Surface (1), Mean Dynamic	Description There is an error with the MSS height (solution 1) and the Mean Dynamic	
CS_OFFL_SIR_IOP_220190617T231346_20190618T000320_C002	Topography (1)	Topography height (solution 1)	
CS_OFFL_SIR_IOP_220190618T000320_20190618T005300_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one of more records	
CS_OFFL_SIR_IOP_220190618T005300_20190618T014234_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Topography (solution 1), and tidal corrections for one or more records	
CS_OFFL_SIR_IOP_2_20190618T014234_20190618T023213_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records	
CS_OFFL_SIR_IOP_220190618T023213_20190618T032148_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)	
Mean Sea Surface (1) Mean Dynamic			

CS\_OFFL\_SIR\_IOP\_2\_20190618T032148\_20190618T041127\_C001

Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide

CS_OFFL_SIR_IOP_220190618T050101_20190618T055041_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T055041_20190618T064015_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T064015_20190618T072954_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T072954_20190618T081928_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220190618T081928_20190618T090908_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T090908_20190618T095842_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T095842_20190618T104821_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T104821_20190618T113755_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records
CS_OFFL_SIR_IOP_220190618T113755_20190618T122735_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T122735_20190618T131709_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records
CS_OFFL_SIR_IOP_220190618T131709_20190618T140648_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T140648_20190618T145623_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T145623_20190618T154602_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T154602_20190618T163536_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T163536_20190618T172516_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T172516_20190618T181450_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T181450_20190618T190429_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220190618T190429_20190618T195403_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T195403_20190618T204343_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T204343_20190618T213317_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T213317_20190618T222256_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T222256_20190618T231230_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190618T231230_20190619T000210_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records

#### 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.					
		na nag indicates any problems when set.			
Number of products with errors: 2					
Product	Test Failed	Description			
CS_OFFL_SIR_IOP_220190618T104821_20190618T113755_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records			
CS_OFFL_SIR_IOP_220190618T181450_20190618T190429_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records			
	1				
6.6 P2P Measurement Quality Flag Check					
P2P Quality Flags (20Hz)					
CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.					
Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.					
Number of products with errors: 29					

# P2P Quality Flags (20Hz PLRM)

Since the P2P Quality Flags are copied directly from the	

Number of products with errors:

# P2P Quality Flags (1 Hz & 1Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

30

28

6.8 P2P Ocean Retracking Qu	ality Check	
P2P Retracking Flags (20Hz)		
Cryosat P2P data includes an ocean retrack	ng quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.	
Ocean Retracking Quality Flag (PLRM): T	nis flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.	
Number of products with errors:	27	
P2P Retracking Flags PLRM		
CryoSat L2 data includes an ocean retrackin	g quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.	

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

30

Number of products with errors: