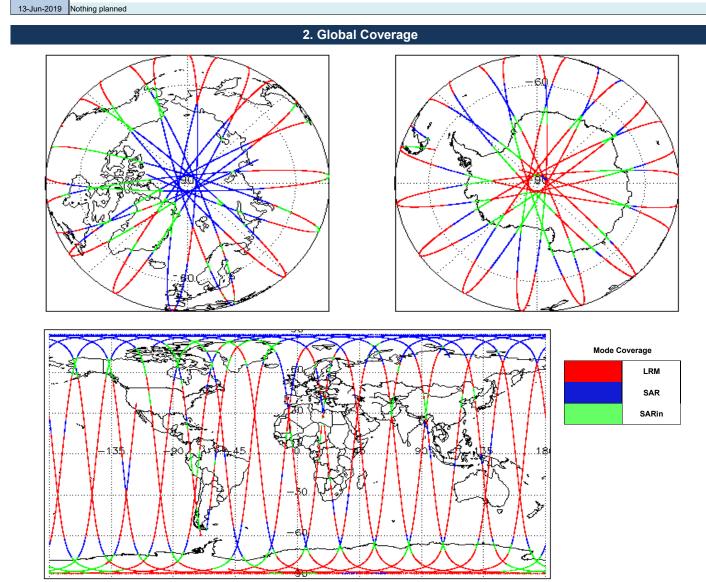


# IDEAS+ Daily Report for IOP data:

# <u>12/06/2019</u>

1. Overview					
Report Production:	21-Jun-2019	Check	L1 & L2	P2P	
report roudetion.	21 841-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal	
FIDLESSOF Used.	Cryosal Ocean Processor	Product Software Check	Nominal	Nominal	
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal	
Data Useu.	L1B, L2 & P2P Science Data	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 Se	ee 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	

# Mission / Instrument News 11-Jun-2019 None 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

or 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 l1b_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 I1b_processing_quality_hr field is not correctly configured in the OSAR and
lumber of products with errors: 0		
I.3 L1B Auxilary Data File Usage Check		
ach 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.
lumber of products with errors: 0		
I.4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag for each measurement reco	d. The bit value of this flag indicate	es any problems when set.
lumber of products with errors: 0		
I.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measure	ment record. The bit value of this fl	ag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR produ		• •
lumber of products with errors: 0	comgatation loode. I	
·		
I.6 L1B Waveform Group Data Check		
ryoSat L1B data includes a waveform data flag for each measurement recor	-	as any problems when set.
.oss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
lumber of products with errors: 22		
Product	Test Failed	Description
S_OFFL_SIR_IOPM1B_20190612T101131_20190612T102607_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPM1B_20190612T112122_20190612T113433_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190612T001219_20190612T001325_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_20190612T032448_20190612T032518_C001		
SS_OFFL_SIR_IOPN1B_20190612T001219_20190612T001325_C001           SS_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001           SS_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001           SS_OFFL_SIR_IOPN1B_20190612T13823_20190612T13908_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001 S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001 SS_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_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_20190612T032448_20190612T032518_C001 S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_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
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001 S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001 S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001 S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001 S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_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
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001 S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001 S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001 S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_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
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001 S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001 S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001 S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001 S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001 S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001 S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_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
SS_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         SS_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         SS_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         SS_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         SS_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         SS_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         SS_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001	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
SS_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         SS_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         SS_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         SS_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         SS_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         SS_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         SS_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         SS_OFFL_SIR_IOPN1B_20190612T214500_20190612T214454_C001         SS_OFFL_SIR_IOPN1B_20190612T214500_20190612T214627_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
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         S_OFFL_SIR_IOPN1B_20190612T13823_20190612T13908_C001         S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T2142450_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T01811_20190612T001935_C001         S_OFFL_SIR_IOPN1B_20190612T002125_20190612T00217_C001	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
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T214500_20190612T214627_C001         S_OFFL_SIR_IOPN1B_20190612T001811_20190612T00135_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T002358_20190612T005350_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
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T214500_20190612T214627_C001         S_OFFL_SIR_IOPN1B_20190612T001811_20190612T001935_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T00358_20190612T051350_C001         S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_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 The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001 S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001 S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001 S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001 S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001 S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001 S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001 S_OFFL_SIR_IOPN1B_20190612T214500_20190612T214454_C001 S_OFFL_SIR_IOPN1B_20190612T201811_20190612T201935_C001 S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001 S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001 S_OFFL_SIR_IOPR1B_20190612T053358_20190612T081727_C001 S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001 S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001 S_OFFL_SIR_IOPR1B_20190612T090826_20190612T090952_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records         The tracking e
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001           S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001           S_OFFL_SIR_IOPN1B_20190612T13823_20190612T113908_C001           S_OFFL_SIR_IOPN1B_20190612T113823_20190612T114149_C001           S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001           S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001           S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001           S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001           S_OFFL_SIR_IOPN1B_20190612T01811_20190612T01935_C001           S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001           S_OFFL_SIR_IOPR1B_20190612T00358_20190612T00217_C001           S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001           S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001           S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001           S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001           S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001           S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001           S_OFFL_SIR_IOPR1B_20190612T081356_20190612T08042_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records         The tracking e
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         S_OFFL_SIR_IOPN1B_20190612T113233_20190612T1082519_C001         S_OFFL_SIR_IOPN1B_20190612T113233_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T1133547_20190612T114149_C001         S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T001811_20190612T00135_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T001350_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T081366_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T0826_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T150336_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T168356_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T16030_20190612T150944_C001         S_OFFL_SIR_IOPR1B_20190612T163725_20190612T164506_C001	Loss of Echo	The tracking echo is missing for one or more records         The tracking e
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         S_OFFL_SIR_IOPN1B_20190612T118233_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T001811_20190612T01935_C001         S_OFFL_SIR_IOPN1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T0021358_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T108030_20190612T08042C001         S_OFFL_SIR_IOPR1B_20190612T1500332_20190612T150944_C001         S_OFFL_SIR_IOPR1B_20190612T163725_20190612T164506_C001         S_OFFL_SIR_IOPR1B_20190612T182328_20190612T182616_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T1214500_20190612T214627_C001         S_OFFL_SIR_IOPN1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T002125_20190612T002217_C001         S_OFFL_SIR_IOPR1B_20190612T00358_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T090826_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T090826_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T150030_20190612T150944_C001         S_OFFL_SIR_IOPR1B_20190612T163725_20190612T164506_C001         S_OFFL_SIR_IOPR1B_20190612T163725_20190612T182616_C001         S_OFFL_SIR_IOPR1B_20190612T182328_20190612T182616_C001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records
SS_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         SS_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         SS_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         SS_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         SS_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         SS_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         SS_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         SS_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         SS_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20190612T032448_20190612T032518_C001         S_OFFL_SIR_IOPN1B_20190612T082243_20190612T082519_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T113823_20190612T113908_C001         S_OFFL_SIR_IOPN1B_20190612T114119_20190612T114149_C001         S_OFFL_SIR_IOPN1B_20190612T183547_20190612T183659_C001         S_OFFL_SIR_IOPN1B_20190612T205136_20190612T205649_C001         S_OFFL_SIR_IOPN1B_20190612T214237_20190612T214454_C001         S_OFFL_SIR_IOPN1B_20190612T1001811_20190612T001935_C001         S_OFFL_SIR_IOPN1B_20190612T002125_20190612T001350_C001         S_OFFL_SIR_IOPR1B_20190612T00358_20190612T051350_C001         S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T081356_20190612T081727_C001         S_OFFL_SIR_IOPR1B_20190612T1090826_20190612T150944_C001         S_OFFL_SIR_IOPR1B_20190612T163725_20190612T168064_C001         S_OFFL_SIR_IOPR1B_20190612T182328_20190612T182616_C001         S_OFFL_SIR_IOPR1B_20190612T182328_20190612T182616_C001         S_OFFL_SIR_IOPR1B_20190612T195512_20190612T182616_C001         S_OFFL_SIR_IOPR1B_20190612T182328_20190612T182616_C001         S_OFFL_SIR_IOPR1B_20190612T182328_20190612T182616_C001         S_OFFL_SIR_IOPR1B_20190612T182328_20190612T182616_C001         S_OFFL_SIR_IOPR1B_20190612T195512_20190612T200226_C001         S_OFFL_SIR_IOPR1B_20190612T192033_20190612T201419_C001 </td <td>Loss of EchoLoss of Echo<td>The tracking echo is missing for one or more records</td></td>	Loss of EchoLoss of Echo <td>The tracking echo is missing for one or more records</td>	The tracking echo is missing for one or more records

Number of products with errors:

# 5.2 L2 Product Header Analysis

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

# 5.3 L2 Auxiliary Data File Usage Check

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

 Number of products with errors:
 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.

52

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190612T103049_20190612T104804_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_20190612T112122_20190612T113433_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_20190612T150948_20190612T151035_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_20190612T001219_20190612T001325_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_20190612T005523_20190612T005721_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_20190612T015132_20190612T015715_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_20190612T023455_20190612T023613_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_20190612T055404_20190612T055728_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_20190612T065246_20190612T065522_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_20190612T073306_20190612T073626_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_20190612T082243_20190612T082519_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 height (solution 1), 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_20190612T092027_20190612T092151_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_20190612T100317_20190612T100420_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_20190612T105740_20190612T105941_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_20190612T114152_20190612T114334_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_20190612T124426_20190612T124838_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_20190612T131701_20190612T132207_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_20190612T141700_20190612T141914_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_20190612T145451_20190612T150029_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_20190612T172625_20190612T172750_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_20190612T190555_20190612T190721_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_20190612T191235_20190612T191537_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_20190612T205136_20190612T205649_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_20190612T214237_20190612T214454_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20190612T222613_20190612T222848_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_20190612T232122_20190612T232238_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_20190612T232447_20190612T232731_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_IOPR_2_20190612T000530_20190612T000731_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_20190612T000746_20190612T001003_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_20190612T001004_20190612T001218_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_20190612T014558_20190612T015131_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_20190612T032646_20190612T033150_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_20190612T050358_20190612T051350_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_20190612T064428_20190612T065246_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_20190612T081357_20190612T081727_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_20190612T082519_20190612T083300_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_20190612T100421_20190612T101131_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_20190612T113434_20190612T113648_C001	Mean Sea Surface (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 Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non- equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPR_2_20190612T114335_20190612T114931_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_20190612T132207_20190612T132729_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_20190612T150030_20190612T150944_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_20190612T150944_20190612T150947_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_20190612T163725_20190612T164506_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_20190612T181647_20190612T182327_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_20190612T182328_20190612T182616_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_20190612T195512_20190612T200226_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_20190612T200226_20190612T200434_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_20190612T213647_20190612T214122_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_20190612T214122_20190612T214237_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_20190612T225310_20190612T225501_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_20190612T231443_20190612T231957_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_20190612T231958_20190612T232122_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)

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#### 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\_IOPM\_2\_20190612T045528\_20190612T045800\_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\_20190612T183139\_20190612T183430\_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\_20190612T23592\_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\_20190612T23592\_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.

71

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20190612T002217_20190612T003437_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T003959_20190612T005250_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190612T005722_20190612T010537_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_20190612T010813_20190612T012409_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T012706_20190612T012917_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T020632_20190612T021005_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T021007_20190612T023244_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T023855_20190612T024407_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_20190612T024816_20190612T031205_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T034404_20190612T035519_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T040057_20190612T041125_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T041820_20190612T042424_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_20190612T042648_20190612T045456_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T045834_20190612T050358_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T051728_20190612T055008_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T055729_20190612T060254_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_20190612T060605_20190612T061047_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T064113_20190612T064427_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T065623_20190612T070529_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T070814_20190612T072959_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T073627_20190612T073732_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_20190612T073736_20190612T074145_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_20190612T074556_20190612T080320_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T083301_20190612T090825_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T091146_20190612T091630_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_20190612T092731_20190612T095846_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T101131_20190612T102607_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T103049_20190612T104804_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T105012_20190612T105528_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_20190612T110540_20190612T111908_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T112122_20190612T113433_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T113648_20190612T113737_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T120046_20190612T121108_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T121248_20190612T122657_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T122937_20190612T123439_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_20190612T124313_20190612T124426_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T124838_20190612T125549_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20190612T130011_20190612T130459_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T134351_20190612T140527_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T141008_20190612T141355_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_20190612T142051_20190612T144851_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T152043_20190612T154513_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T154750_20190612T155309_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_20190612T155316_20190612T155642_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_20190612T160024_20190612T161110_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T161648_20190612T163306_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T165707_20190612T171015_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T171031_20190612T171550_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T171940_20190612T172431_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T172750_20190612T173546_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_20190612T174015_20190612T181301_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T184821_20190612T190316_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T190721_20190612T191235_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_20190612T191917_20190612T194048_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T194332_20190612T195401_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T200435_20190612T200739_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T202332_20190612T202939_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T203127_20190612T204159_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T205857_20190612T213508_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T214711_20190612T221912_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T222848_20190612T223043_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_20190612T223242_20190612T223548_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_20190612T223804_20190612T225309_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T225502_20190612T230549_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20190612T232239_20190612T232446_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_20190612T232732_20190612T234347_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T100317_20190612T100420_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T114119_20190612T114149_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T181451_20190612T181647_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T064428_20190612T065246_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T130622_20190612T130742_C001	Ocean Altimeter Range Quality, Ocean SSHA Quality, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean 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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20190612T001219_20190612T001325_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T001654_20190612T001811_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T005523_20190612T005721_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190612T015132_20190612T015715_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190612T023815_20190612T023855_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190612T024407_20190612T024647_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T042424_20190612T042551_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190612T051351_20190612T051727_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T060255_20190612T060412_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190612T074145_20190612T074308_C001	OCOG Altimeter Range Quality PLNM, OCOG Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, OCCG Backscatter Quality, OCCG 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_20190612T090953_20190612T091145_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T092027_20190612T092151_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T100317_20190612T100420_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T140655_20190612T141008_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T172625_20190612T172750_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190612T183547_20190612T183659_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Ocean Aumeter Range Quality FLRM,	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T190555_20190612T190721_C001	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_20190612T191235_20190612T191537_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T205136_20190612T205649_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPN_2_20190612T222613_20190612T222848_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20190612T232447_20190612T232731_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records.
CS_OFFL_SIR_IOPR_2_20190612T000746_20190612T001003_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T001004_20190612T001218_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T010725_20190612T010812_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20190612T014558_20190612T015131_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T015716_20190612T015941_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T032646_20190612T033150_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T050358_20190612T051350_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T055008_20190612T055404_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T064428_20190612T065246_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T073000_20190612T073305_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T073732_20190612T073736_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_20190612T081727_20190612T082123_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T082133_20190612T082243_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T082519_20190612T083300_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T090826_20190612T090952_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T092152_20190612T092731_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T100421_20190612T101131_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T102607_20190612T103048_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T105942_20190612T110539_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T113908_20190612T114119_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T114335_20190612T114931_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T121109_20190612T121248_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T122657_20190612T122749_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T130622_20190612T130742_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T132207_20190612T132729_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T150030_20190612T150944_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T155805_20190612T160023_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T163725_20190612T164506_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T164542_20190612T164749_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T172431_20190612T172625_C001	Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20190612T181647_20190612T182327_C001Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean Backscatter Quality SWH Quality, Ocean Backscatter Quality Deen SSHA Quality PLRM, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPR_2_20190612T183700_20190612T183838_C001Ceean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Deen SSHA Quality PLRM, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPR_2_20190612T190512_20190612T200226_C001Ceean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_IOPR_2_20190612T204159_20190612T20434_C001Ceean Altimeter Range Quality PLRM,
CS_OFFL_SIR_IOPR_2_20190612T183700_20190612T183838_C001       Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       Interformation of the open set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T190316_20190612T190555_C001       Ocean Attimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T190512_20190612T190555_C001       Ocean Attimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T195512_20190612T200226_C001       Ocean Attimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T200226_20190612T200434_C001       Ocean Attimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T200434_C001       Ocean Attimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T204358_C001       Ocean Attimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T190316_20190612T190555_C001       Ocean SSHA Quality PLRM, Ócean SWH Quality, Ocean Backscatter Quality       Ine Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T195512_20190612T200226_C001       Ocean Altimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T200226_20190612T200434_C001       Ocean Altimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T200226_20190612T200434_C001       Ocean Altimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T200434_C001       Ocean Altimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T204159_20190612T204558_C001       Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM,
CS_OFFL_SIR_IOPR_2_20190612T195512_20190612T200226_C001       Ocean SSHA Quality PLRM, Ócean SWH Quality, Ocean Backscatter Quality       Ine Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T200226_20190612T200434_C001       Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T200434_C001       Ocean Altimeter Range Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20190612T204159_20190612T204558_C001       Ocean Altimeter Range Quality PLRM, Ocean SSHA Qua
CS_OFFL_SIR_IOPR_2_20190612T200226_20190612T200434_C001 Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality CS_OFFL_SIR_IOPR_2_20190612T204159_20190612T204558_C001 Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS_OFFL_SIR_IOPR_2_20190612T204159_20190612T204558_C001 Ocean SSHA Quality PLRM, Ocean The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Back
CS_OFFL_SIR_IOPR_2_20190612T204159_20190612T204558_C001 Ocean SSHA Quality PLRM, Ócean Altimeter Kange, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20190612T205649_20190612T205856_C001 Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SSHA Quality PLRM, Ocean Backscatter Quality Flags WH Quality, Ocean Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T213647_20190612T214122_C001 Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Flags WH Quality, Ocean Backscatter Quality Flags to been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T221912_20190612T222613_C001 Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Flags WH Quality, Ocean Backscatter Quality Flags to be been set for one or more records.
CS_OFFL_SIR_IOPR_2_20190612T231443_20190612T231957_C001 Ocean Altimeter Range Quality PLRM, Ocean SSHA Quality PLRM, Ocean SSHA Quality PLRM, Ocean SWH Quality, Ocean Backscatter Quality Flags WH Quality, Ocean Backscatter Quality Flags backscatter Quality Flags and the open 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.

ere are several common flags raised in the Level 2 products, which are summarised below.

185

148

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

Number of	products	with errors:	

# 5.8 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 cur	rently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.	
Number of products with errors:	56	

#### 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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

# 6. IOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P 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 NetCDF product file (.nc). Number of products with errors: 0

# 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 and/or errors raised by the ground-segment processing chain. 0

# Number of products with errors:

# 6.3 P2P 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

#### 6.4 P2P 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.

30

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

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190611T232105_20190612T001040_C002	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_220190612T001040_20190612T010019_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_220190612T010019_20190612T014954_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_220190612T014954_20190612T023933_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_220190612T023933_20190612T032907_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_220190612T032907_20190612T041846_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_220190612T041846_20190612T050821_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_220190612T050821_20190612T055800_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_220190612T055800_20190612T064734_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_220190612T064734_20190612T073713_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_220190612T073713_20190612T082648_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 height (solution 1), 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_IOP_220190612T082648_20190612T091627_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_220190612T091627_20190612T100601_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_220190612T100601_20190612T105540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) mean Sea Surface (1), mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190612T105540_20190612T114515_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	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_IOP_220190612T114515_20190612T123454_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_220190612T123454_20190612T132429_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_220190612T132429_20190612T141408_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_220190612T141408_20190612T150342_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_220190612T150342_20190612T155321_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_220190612T155321_20190612T164256_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_220190612T164256_20190612T173235_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_220190612T173235_20190612T182209_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_220190612T182209_20190612T191149_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_220190612T191149_20190612T200123_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_220190612T200123_20190612T205102_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_220190612T205102_20190612T214036_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_220190612T214036_20190612T223016_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_220190612T223016_20190612T231950_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220190612T231950_20190613T000929_C002	Topography (1), Total Geocentric Ocean	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.

Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_IOP_220190612T041846_20190612T050821_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220190612T182209_20190612T191149_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220190612T231950_20190613T000929_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

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 d	irectly 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 d	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.			
Number of products with errors:	30			
P2P Quality Flags (1 Hz & 1Hz P	LRM)			
Since the P2P Quality Flags are copied d	irectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.			
Number of products with errors:	30			
6.8 P2P Ocean Retracking Qu	ality Check			
P2P Retracking Flags (20Hz)				
Cryosat P2P data includes an ocean retrack	ing 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	his flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.			
Number of products with errors:	29			
P2P Retracking Flags PLRM				
CryoSat L2 data includes an ocean retrackir	ng 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