

IDEAS+ Daily Report for IOP data:

<u>10/06/2018</u>



		1. Overview		
eport Production:	12-Jun-2018	Check	L1 & L2	P2P
port i roduction.	12-001-2010	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
rocessor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
		Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
2444 0004.	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		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, 5.7	See Section 6.6, 6.
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
sion / Instrument Ne	ews			
Jun-2018 None				
-Jun-2018 None -Jun-2018 Nothing	planned			
-Juli-2018 Nothing	planned			
		2. Global Coverage		
				Mode Coverage LRM SAR
	<u>XXX</u>			

3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

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:

4.2 L1B Product Header Analysis

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

.3 L1B Auxilary Data File Usage Check				
ach product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.		
umber of products with errors: 0				
.4 L1B Auxiliary Correction Error Check				
ryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indicates	s any problems when set.		
umber of products with errors: 0				
.5 L1B Measurement Confidence Data Check ryoSat L1B data includes a measurement confidence flag for each measurem ttitude Correction Missing: This flag is currently set in error for IOPR produ		• •		
Number of products with errors: 1				
roduct	Test Failed	Description		
S_OFFL_SIR_IOPM1B_20180610T083229_20180610T083955_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
.6 L1B Waveform Group Data Check				

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

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

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CS_OFFL_SIR_JOPMIB_201806107040516_2018061071041152_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_20180610710322_201806107104848_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_20180610714222_2018061071104848_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_201806107162322_201806107163315_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_20180610716335_201806107050743_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_20180610705073_201806107050743_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_20180610705073_201806107050743_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_20180610705073_20180610713339_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_201806107163200_201806107172500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_201806107163240_20180610718256_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_201806107163240_20180610718256_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_201806107163240_20180610718256_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_201806107163240_20180610706352_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPMIB_20180	Product	Test Failed	Description
CS_OFFL_SIR_JOPM1B_201806107101332_201806107145448_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPM1B_201806107142229_201806107145243_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPM1B_201806107161743_20180610716315_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPM1B_201806107050352_00180610763052_00101Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPM1B_201806107050532_01806107050532_00101Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPM1B_201806107050637_201806107050637_0010Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_201806107050637_201806107050637_0010Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610716443_01806107166055_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_201806107182450_201806107172706_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_201806107182450_201806107120911_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_201806107080542_0180610700652_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_201806107080542_0180610700652_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_201806107080542_01806107080542_0010Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_2018	CS_OFFL_SIR_IOPM1B_20180610T040516_20180610T041152_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180610T142229_20180610T145943_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPM1B_20180610T161743_20180610T163351_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPM1B_20180610T063051_20180610T0603052_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T0603051_20180610T060528_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T06037_20180610T060532_01001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T064133_20180610T06413_300_001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T132305_0100610T132305_0010Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T132305_010161055_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T182450_0180610T182450_0180610T182456_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T100345_20180610T06352_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T000345_20180610T06352_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T000345_20180610T06352_0001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_JOPN1B_20180610T063452_0180610T06352_0180610T063511_0001Loss of EchoThe tracking echo is missing for one or more records <t< td=""><td>CS_OFFL_SIR_IOPM1B_20180610T052252_20180610T053411_C001</td><td>Loss of Echo</td><td>The tracking echo is missing for one or more records</td></t<>	CS_OFFL_SIR_IOPM1B_20180610T052252_20180610T053411_C001	Loss of Echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_IOPN1B_20180610T164940_20180610T165055_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T172530_20180610T172706_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T182450_20180610T182556_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T1020403_20180610T200911_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T000504_20180610T000525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T005345_20180610T00525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T06305_20180610T06525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T06305_20180610T06525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T066328_20180610T063711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T1141112_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T13806_20111411426_001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T113816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T18222_20180610T18220_2001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SI	CS_OFFL_SIR_IOPN1B_20180610T064133_20180610T064641_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180610T172500_20180610T172706_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T182450_20180610T182556_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T00904_20180610T000914_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T00904_20180610T005725_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T005345_20180610T005725_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T06326_20180610T005725_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T06326_20180610T06325_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T063628_20180610T063711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T14486_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T11485_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T14825_20180610T133016_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T138216_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T18271_20180610T18290_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806	CS_OFFL_SIR_IOPN1B_20180610T133206_20180610T133339_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180610T182450_20180610T182556_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPN1B_20180610T200403_20180610T200911_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T00904_20180610T001652_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T005345_20180610T005725_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T06305_20180610T06525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T06305_20180610T06355_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T06305_20180610T063711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T1425_20180610T14846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T11485_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T11485_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T13816_20180610T136010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T18273_20180610T18292_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T18420_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T18	CS_OFFL_SIR_IOPN1B_20180610T164940_20180610T165055_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_201806107200403_201806107200911_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107000904_201806107001652_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107005345_201806107005725_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107060305_201806107060525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610706328_201806107063711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107064112_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107114112_201806107114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107133816_201806107134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107133816_201806107155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107182731_201806107182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107183400_201806107183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107183400_201806107183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_201806107183400_201806107183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_2018061071834	CS_OFFL_SIR_IOPN1B_20180610T172530_20180610T172706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T000904_20180610T001652_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T005345_20180610T005725_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T060305_20180610T060525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T0630628_20180610T063711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T064019_20180610T064112_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T14112_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T115058_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T13816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T18290_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T18350_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B	CS_OFFL_SIR_IOPN1B_20180610T182450_20180610T182556_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T005345_20180610T005725_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T060305_20180610T060525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T063628_20180610T0603711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T064019_20180610T064112_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114112_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T114866_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T114866_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T115058_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T133816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IO	CS_OFFL_SIR_IOPN1B_20180610T200403_20180610T200911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T060305_20180610T060525_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T063628_20180610T063711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T064019_20180610T064112_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114112_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T115058_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T13816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_0180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T000904_20180610T001652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T063628_20180610T063711_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T064019_20180610T064112_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T14112_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T115058_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T13816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T21371_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T21371_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T21371_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_0180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T005345_20180610T005725_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T064019_20180610T064112_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114112_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T114855_20180610T115058_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T133816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T060305_20180610T060525_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T114112_20180610T114846_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T114855_20180610T115058_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T133816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T21371_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213712_0180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T063628_20180610T063711_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T114855_20180610T115058_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T133816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T064019_20180610T064112_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T133816_20180610T134010_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T114112_20180610T114846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T114855_20180610T115058_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T133816_20180610T134010_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T154322_20180610T155019_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T182731_20180610T182920_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_IOPR1B_20180610T183400_20180610T183500_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180610T231632_20180610T232624_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_IOPR1B_20180610T213510_20180610T213712_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_IOPR1B_20180610T231632_20180610T232624_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors: 0

5.2 L2 Product Header Analysis

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

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:
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). Number of products with errors: 0

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: 1

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180610T083229_20180610T083955_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags 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.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 87

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180610T002015_20180610T005345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T010040_20180610T010552_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T010930_20180610T011040_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T011129_20180610T012659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T014312_20180610T014409_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T015802_20180610T020850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T021135_20180610T022729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T022732_20180610T023239_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T024046_20180610T024457_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T024935_20180610T030909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T030948_20180610T031423_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T031526_20180610T032224_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T032224_20180610T032336_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T032648_20180610T032711_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T033617_20180610T033944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T033947_20180610T040513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T040516_20180610T041152_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T041414_20180610T041938_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T043043_20180610T044311_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T044414_20180610T050110_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T052252_20180610T053410_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T053614_20180610T055050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T055341_20180610T055836_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T055914_20180610T060033_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T060727_20180610T061835_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T062438_20180610T063628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T071534_20180610T072954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T073311_20180610T073749_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T073753_20180610T073806_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T074532_20180610T081110_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T084450_20180610T090906_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T091321_20180610T091703_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T091725_20180610T092050_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T092413_20180610T093523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T094052_20180610T095129_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T101332_20180610T104848_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T105123_20180610T105617_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T110412_20180610T111434_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T112007_20180610T113756_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T115058_20180610T115338_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180610T122308_20180610T122431_C001 CS OFFL SIR IOPM 2 20180610T122630 20180610T122743 C001 CS_OFFL_SIR_IOPM_2_20180610T123120_20180610T123647_C001 CS_OFFL_SIR_IOPM_2_20180610T124334_20180610T130546_C001 CS OFFL SIR IOPM 2 20180610T130735 20180610T131824 C001 CS_OFFL_SIR_IOPM_2_20180610T132932_20180610T133206_C001 CS OFFL SIR IOPM 2 20180610T134853 20180610T140618 C001 CS OFFL SIR IOPM 2 20180610T141043 20180610T141544 C001 CS_OFFL_SIR_IOPM_2_20180610T142229_20180610T145843_C001 CS_OFFL_SIR_IOPM_2_20180610T152028_20180610T154321_C001 CS_OFFL_SIR_IOPM_2_20180610T155256_20180610T155448_C001 CS_OFFL_SIR_IOPM_2_20180610T160225_20180610T161720_C001 CS OFFL SIR IOPM 2 20180610T161743 20180610T161909 C001 CS_OFFL_SIR_IOPM_2_20180610T162352_20180610T163815_C001 CS_OFFL_SIR_IOPM_2_20180610T164657_20180610T164940_C001 CS OFFL SIR IOPM 2 20180610T165130 20180610T170755 C001 CS OFFL SIR IOPM 2 20180610T171008 20180610T172441 C001 CS_OFFL_SIR_IOPM_2_20180610T173151_20180610T173400_C001 CS OFFL SIR IOPM 2 20180610T173449 20180610T173902 C001 CS_OFFL_SIR_IOPM_2_20180610T174116_20180610T175614_C001 CS_OFFL_SIR_IOPM_2_20180610T175841_20180610T180737_C001 CS OFFL SIR IOPM 2 20180610T183500 20180610T184535 C001 CS_OFFL_SIR_IOPM_2_20180610T185220_20180610T190520_C001 CS OFFL SIR IOPM 2 20180610T190945 20180610T191803 C001 CS OFFL SIR IOPM 2 20180610T192037 20180610T193658 C001 CS OFFL SIR IOPM 2 20180610T201904 20180610T204511 C001 CS_OFFL_SIR_IOPM_2_20180610T205124_20180610T205628_C001 CS_OFFL_SIR_IOPM_2_20180610T210041_20180610T212443_C001 CS_OFFL_SIR_IOPM_2_20180610T215707_20180610T220749_C001 CS OFFL SIR IOPM 2 20180610T221327 20180610T222349 C001 CS_OFFL_SIR_IOPM_2_20180610T223047_20180610T223648_C001 CS_OFFL_SIR_IOPM_2_20180610T223910_20180610T230713_C001 CS OFFL SIR IOPM 2 20180610T231103 20180610T231631 C001 CS_OFFL_SIR_IOPN_2_20180610T050111_20180610T050348_C001 CS_OFFL_SIR_IOPN_2_20180610T050351_20180610T050528_C001 CS OFFL SIR IOPN 2 20180610T055907 20180610T055914 C001 CS_OFFL_SIR_IOPN_2_20180610T101037_20180610T101100_C001 CS_OFFL_SIR_IOPR_2_20180610T014028_20180610T014312_C001 CS OFFL SIR IOPR 2 20180610T014409 20180610T014527 C001 CS OFFL SIR IOPR 2 20180610T032336 20180610T032413 C001 CS_OFFL_SIR_IOPR_2_20180610T044311_20180610T044414_C001 CS_OFFL_SIR_IOPR_2_20180610T064019_20180610T064112_C001 CS_OFFL_SIR_IOPR_2_20180610T093523_20180610T094052_C001 CS OFFL SIR IOPR 2 20180610T104848 20180610T104959 C001 CS_OFFL_SIR_IOPR_2_20180610T111434_20180610T112007_C001 CS_OFFL_SIR_IOPR_2_20180610T154322_20180610T155019_C001 CS OFFL SIR IOPR 2 20180610T195657 20180610T195813 C001

Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status

The Ocean Range Averaging Status Flag has been set for one or more record The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags 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.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 86

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180610T002015_20180610T005345_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180610T010040_20180610T010552_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
CS_OFFL_SIR_IOPM_2_20180610T011129_20180610T012659_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T014312_20180610T014409_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
S_OFFL_SIR_IOPM_2_20180610T015802_20180610T020850_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
S_OFFL_SIR_IOPM_2_20180610T021135_20180610T022729_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180610T022732_20180610T023239_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T024046_20180610T024457_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180610T024935_20180610T030909_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T030948_20180610T031423_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T031526_20180610T032224_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T032224_20180610T032336_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T032648_20180610T032711_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo
S OFFL SIR IOPM 2 20180610T033617 20180610T033944 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
S_OFFL_SIR_IOPM_2_20180610T033947_20180610T040513_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
S_OFFL_SIR_IOPM_2_20180610T040516_20180610T041152_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or mo
S_OFFL_SIR_IOPM_2_20180610T041414_20180610T041938_C001	Ice Backscatter Averaging Status	records.
S_OFFL_SIR_IOPM_2_20180610T043043_20180610T044311_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPM_2_20180610T044414_20180610T050110_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPM_2_20180610T052252_20180610T053410_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPM_2_20180610T053614_20180610T055050_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPM_2_20180610T055341_20180610T055836_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo
S_OFFL_SIR_IOPM_2_20180610T055914_20180610T060033_C001	Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or mo
S OFFL SIR IOPM 2 20180610T060727 20180610T061835 C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one o
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one of
S_OFFL_SIR_IOPM_2_20180610T062438_20180610T063628_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one o
S_OFFL_SIR_IOPM_2_20180610T071534_20180610T072954_C001	Backscatter Averaging Status	more records.
S_OFFL_SIR_IOPM_2_20180610T073311_20180610T073749_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more cords.
S_OFFL_SIR_IOPM_2_20180610T073753_20180610T073806_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180610T074532_20180610T081110_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPM_2_20180610T084450_20180610T090906_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one o more records.
S_OFFL_SIR_IOPM_2_20180610T091321_20180610T091703_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo records.
S_OFFL_SIR_IOPM_2_20180610T091725_20180610T092050_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo
S_OFFL_SIR_IOPM_2_20180610T092413_20180610T093523_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one o
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one o
S_OFFL_SIR_IOPM_2_20180610T094052_20180610T095129_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one o
S_OFFL_SIR_IOPM_2_20180610T101332_20180610T104848_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or mo
S_OFFL_SIR_IOPM_2_20180610T105123_20180610T105617_C001	Ice Backscatter Averaging Status	records.
S_OFFL_SIR_IOPM_2_20180610T110412_20180610T111434_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T112007_20180610T113756_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T115058_20180610T115338_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T122308_20180610T122431_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T122630_20180610T122743_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
S_OFFL_SIR_IOPM_2_20180610T123120_20180610T123647_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or mo
CS_OFFL_SIR_IOPM_2_20180610T124334_20180610T130546_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180610T130735_20180610T131824_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
S_OFFL_SIR_IOPM_2_20180610T132932_20180610T133206_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180610T134853_20180610T140618_C001	Backscatter Averaging Status, Ocean	more records.

CS_OFFL_SIR_IOPM_2_20180610T141043_20180610T141544_C001
CS_OFFL_SIR_IOPM_2_20180610T142229_20180610T145843_C001
CS_OFFL_SIR_IOPM_2_20180610T152028_20180610T154321_C001
CS_OFFL_SIR_IOPM_2_20180610T160225_20180610T161720_C001
CS_OFFL_SIR_IOPM_2_20180610T161743_20180610T161909_C001
CS_OFFL_SIR_IOPM_2_20180610T162352_20180610T163815_C001
CS_OFFL_SIR_IOPM_2_20180610T164657_20180610T164940_C001
CS_OFFL_SIR_IOPM_2_20180610T165130_20180610T170755_C001
CS_OFFL_SIR_IOPM_2_20180610T171008_20180610T172441_C001
CS_OFFL_SIR_IOPM_2_20180610T173151_20180610T173400_C001
CS_OFFL_SIR_IOPM_2_20180610T173449_20180610T173902_C001
CS_OFFL_SIR_IOPM_2_20180610T174116_20180610T175614_C001
CS_OFFL_SIR_IOPM_2_20180610T175841_20180610T180737_C001
CS_OFFL_SIR_IOPM_2_20180610T182556_20180610T182640_C001
CS_OFFL_SIR_IOPM_2_20180610T183500_20180610T184535_C001
CS_OFFL_SIR_IOPM_2_20180610T185220_20180610T190520_C001
CS_OFFL_SIR_IOPM_2_20180610T190945_20180610T191803_C001
CS_OFFL_SIR_IOPM_2_20180610T192037_20180610T193658_C001
CS_OFFL_SIR_IOPM_2_20180610T201904_20180610T204511_C001
CS_OFFL_SIR_IOPM_2_20180610T205124_20180610T205628_C001
CS_OFFL_SIR_IOPM_2_20180610T210041_20180610T212443_C001
CS_OFFL_SIR_IOPM_2_20180610T215707_20180610T220749_C001
CS_OFFL_SIR_IOPM_2_20180610T221327_20180610T222349_C001
CS_OFFL_SIR_IOPM_2_20180610T223047_20180610T223648_C001
CS_OFFL_SIR_IOPM_2_20180610T223910_20180610T230713_C001
CS_OFFL_SIR_IOPM_2_20180610T231103_20180610T231631_C001
CS_OFFL_SIR_IOPN_2_20180610T050351_20180610T050528_C001
CS_OFFL_SIR_IOPN_2_20180610T055907_20180610T055914_C001
CS_OFFL_SIR_IOPN_2_20180610T101037_20180610T101100_C001
CS_OFFL_SIR_IOPR_2_20180610T014028_20180610T014312_C001
CS_OFFL_SIR_IOPR_2_20180610T014409_20180610T014527_C001
CS_OFFL_SIR_IOPR_2_20180610T032336_20180610T032413_C001
CS_OFFL_SIR_IOPR_2_20180610T044311_20180610T044414_C001
CS_OFFL_SIR_IOPR_2_20180610T064019_20180610T064112_C001
CS_OFFL_SIR_IOPR_2_20180610T093523_20180610T094052_C001
CS_OFFL_SIR_IOPR_2_20180610T111434_20180610T112007_C001
CS_OFFL_SIR_IOPR_2_20180610T154322_20180610T155019_C001
CS_OFFL_SIR_IOPR_2_20180610T195657_20180610T195813_C001

Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
Ice Backscatter Averaging Status	records. The Ice Backscatter Averaging Status Flag has been set for one or more
	records. The Ice Backscatter Averaging Status Flag has been set for one or more
Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status	more records.
SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products 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: 65

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:

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. Number of products with errors:

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 cha	ecked for the default error value (3276	7).		
Number of products with errors: 0				
Number of products with errors: 0				
6.5 P2P Measurement Confidence Data Check	asurement record. The bit value of this	s flag indicates any problems when set.		
Number of products with errors: 0 6.5 P2P Measurement Confidence Data Check CryoSat P2P data includes a measurement confidence flag for each 20-Hz me Number of products with errors: 1	easurement record. The bit value of this	s flag indicates any problems when set.		
6.5 P2P Measurement Confidence Data Check CryoSat P2P data includes a measurement confidence flag for each 20-Hz me Number of products with errors: 1	easurement record. The bit value of this	s flag indicates any problems when set. Description		
6.5 P2P Measurement Confidence Data Check CryoSat P2P data includes a measurement confidence flag for each 20-Hz me				

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P 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.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 29

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180609T232209_20180610T001148_C003	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T001148_20180610T010122_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T010122_20180610T015101_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T015101_20180610T024036_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T024036_20180610T033015_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T033015_20180610T041949_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T041949_20180610T050928_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T050928_20180610T055903_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180610T055903_20180610T064842_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T064842_20180610T073816_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180610T073816_20180610T082756_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T082756_20180610T091730_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T091730_20180610T100709_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T100709_20180610T105644_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T105644_20180610T114623_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T114623_20180610T123557_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180610T123557_20180610T132536_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T132536_20180610T141511_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T141511_20180610T150450_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T150450_20180610T155424_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T155424_20180610T164404_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T164404_20180610T173338_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T173338_20180610T182317_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T182317_20180610T191251_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T191251_20180610T200231_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T200231_20180610T205205_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T205205_20180610T214144_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T214144_20180610T223119_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T223119_20180610T232058_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P 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.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 29

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180609T232209_20180610T001148_C003	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T001148_20180610T010122_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T010122_20180610T015101_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T015101_20180610T024036_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T024036_20180610T033015_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T033015_20180610T041949_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T041949_20180610T050928_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T050928_20180610T055903_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T055903_20180610T064842_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T064842_20180610T073816_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T073816_20180610T082756_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T082756_20180610T091730_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T091730_20180610T100709_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T100709_20180610T105644_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T105644_20180610T114623_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T114623_20180610T123557_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T123557_20180610T132536_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T132536_20180610T141511_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T141511_20180610T150450_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T150450_20180610T155424_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T155424_20180610T164404_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T164404_20180610T173338_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T173338_20180610T182317_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T182317_20180610T191251_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T191251_20180610T200231_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T200231_20180610T205205_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T205205_20180610T214144_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T214144_20180610T223119_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180610T223119_20180610T232058_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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Ocean Retracking Quality Flag: This flag is currently 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180609T232209_20180610T001148_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T001148_20180610T010122_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180610T010122_20180610T015101_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180610T015101_20180610T024036_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T024036_20180610T033015_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T033015_20180610T041949_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T041949_20180610T050928_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T050928_20180610T055903_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T055903_20180610T064842_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T073816_20180610T082756_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T091730_20180610T100709_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T100709_20180610T105644_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T105644_20180610T114623_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T114623_20180610T123557_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T123557_20180610T132536_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T132536_20180610T141511_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T141511_20180610T150450_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T150450_20180610T155424_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T155424_20180610T164404_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T164404_20180610T173338_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T173338_20180610T182317_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T182317_20180610T191251_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T200231_20180610T205205_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T205205_20180610T214144_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T214144_20180610T223119_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180610T223119_20180610T232058_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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