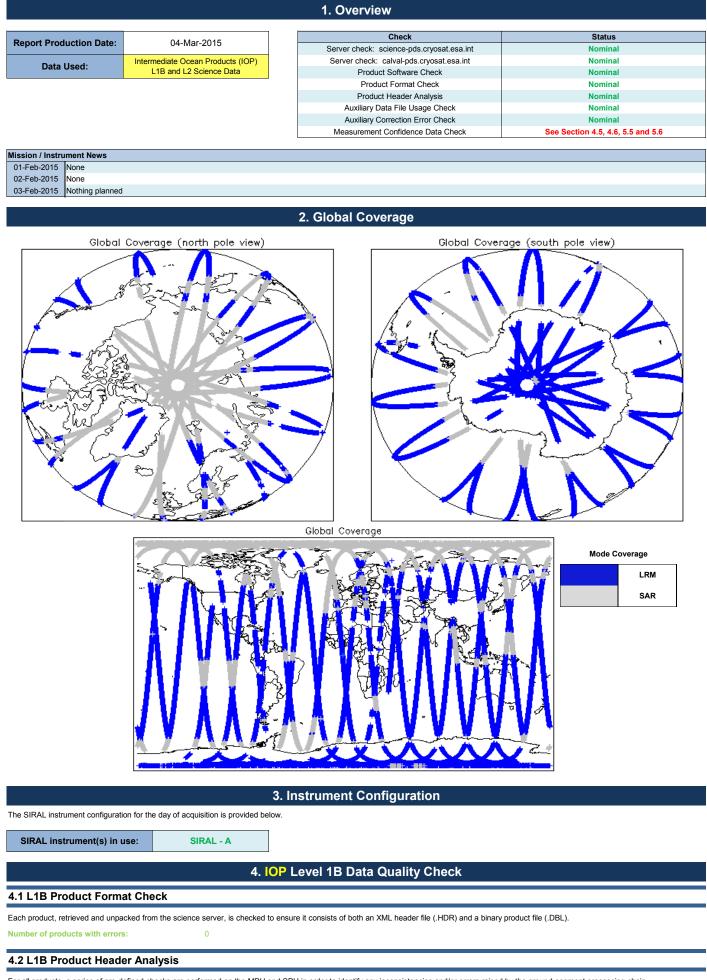


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For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

4.3 L1B Auxilary Data File Usage Check	
Each product is checked for missing Data Set Descriptors with repsect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0	
4.4 L1B Auxiliary Correction Error Check	
Each product is checked to detect auxiliary corrections flagged by the ground-station processing chain as missing or containing errors. Number of products with errors: 0	
4.5 L1B Measurement Confidence Data Check	
CryoSat L1B data includes a measurement confidence flag (field 12) for each 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_IOP_1B_20150202T171448_20150202T173233_B001 Power scaling error There has been an error in the scaling of the L1B waveform	
4.6 L1B Waveform Group Data Check	
CryoSat L1B data includes a waveform data flag (field 65) 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 a large number of products over land, indicating that the tracking echo is missing.	
Number of products with errors: 48	
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 Measurement Confidence Data Check	
CryoSat L2 data includes a quality flag (field 14) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the processing chains.	J
Number of products with errors: 0	
5.5 L2 Range Measurement Check	
Each product is checked to detect range measurements flagged by the processing chain as missing or containing errors.	
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 some products over land and continental ice.	
Number of products with errors: 233	
5.6 L2 SWH and Backscatter Measurement Check	
Each product is checked to detect parameters related to SWH and sigma0 that are flagged by the processing chain as missing or containing errors.	
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 some products over land and continental ice. 210

Number of products with errors: