

IDEAS T

1. Overview

		1. Overview			
		Check		Status	
		Server check: science-pds.cryosa		Nominal	
		Server check: calval-pds.cryosat	.esa.int	Nominal	
		Product Software Check		Nominal	
ort Production Date:	23-May-2013	Product Format Check		Nominal	
		Product Header Analysis		Nominal	
Data Used:	OFFLINE L1B and L2 Science	Auxiliary Data File Usage		See Section 5.3	
Data Osed. Data		Auxiliary Correction Check Measurement Data Set Che		See Section 4.4 and 5.4	
		measurement Data Set Che	СК	See Section 4.5	
n / Instrument News ug-2012 None ug-2012 None ug-2012 Nothing planne	ed				
Clabel Of	overage (north pole view)	2. Global Coverage	verage (south pole view)	, ,	
Mar Co	A Contraction of the second se				
				ILRM 64.58 SAR 21.06 SIN 14.19	
	Mode Coverage	100%	Surface Type		
%		90%			
		80%			
%					
		70%			
%		60%			
		50%			
%		40%			
		30%			
		20%			
%					
%					
%		10%			

		3. Instrun	nent Configuration				
he SIRAL instrument configuration fo	r the day of acquisition is provide	ed below.					
IRAL instrument(s) in use:	SIRAL - A						
Star Tracker(s) in use:	Star Tracker 2						
		4. Level 1B	3 Data Quality Check	ζ			
.1 L1 Product Format Ch							
ach product, retrieved and unpacked		ked to ensure it co	onsists of both an XML beader file.	(HDR) and a produc	t file (DBI)		
umber of products with errors:	0						
.2 L1B Product Header A	nalysis						
or all products, a series of pre-define	d checks are carried out on the I	MPH and SPH in o	order to identify any inconsistencies	and/or errors raised	by the ground-segment processing	chain.	
umber of products with errors:	0				.,		
.3 L1B Auxilary Data File	Usage Check						
ach product is checked for missing D	ata Set Descriptors wrt a pre-de	termined baseline	and also to check the validity of A	uxiliary Data Files is	correct.		
umber of products with errors:	0						
4 L1B Flagged Auxiliary	Correction Error Chee	ck					
ach product is checked to spot auxili	ary corrections flagged by the gr	ound-station proce	essing chain as missing or containi	ng errors			
umber of products with errors:	3						
roduct	055131 201208027060605 800	11	Test Failed	error			
S OFFL SIR LRM 18 201208021			Dynamic atmosphere correction error Dynamic atmosphere correction error				
		01	Dynamic atmosphere correction	error			
S_OFFL_SIR_LRM_1B_20120802T S_OFFL_SIR_SIN_1B_20120802T1 5 L1B Measurement Cor	113731_20120802T120212_B00 75729_20120802T180008_B00 nfidence Data Check	1	Dynamic atmosphere correction Dynamic atmosphere correction	error	problems when set		
S_OFFL_SIR_LRM_1B_20120802T S_OFFL_SIR_SIN_1B_20120802T1 .5 L1B Measurement Cor ryoSat L1B data includes a measure umber of products with errors:	113731_20120802T120212_B00 75729_20120802T180008_B00 nfidence Data Check	1	Dynamic atmosphere correction Dynamic atmosphere correction	error			
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5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag word (field 43) for each 20-Hz measurement record. The bit value of this flag is an assessment of the measurement quality by the ground-segment processing chains

Presently, there are several common data Quality Flag errors raised by the Level 2 products which are either expected due to changes made to the IPF processor in Baseline B or else are due to known issues with the data processors. The investigation of the known issues are on-going and are due to be resolved with the next update of the Level 2 processors. All common known issues are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Freeboard Error: This Quality Flag is correctly set in all products as this parameter is currently not provided in the L2 products and the Freeboard value is presently set to the default value of - 9999.

SARin x-track angle error: Currently there is an on-going investigation into the high number of errors from the 'SARIn x-track Error' Quality Flag over Antarctica.

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Height error and Backscatter error: It has been noted that the number of errors arising from the 'Backscatter Error' and 'Height Error' Quality Flag is much higher than expected over land areas and this is currently part of an on-going investigation by expert teams.

Number of products with errors:

6. QCC Check

The QCC is a CryoSat facility that performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Nb. There is currently a discrepancy between the number of QCC reports and the number of products reported. This is a known issue and investigation is on-going.

Product type	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_GDR_2A	18	17	0	17	0
SIR_LRM_1B	123	124	115	9	0
SIR_LRM_2	124	124	1	123	0
SIR_SAR_1B	89	88	0	88	0
SIR_SAR_2A	89	88	4	84	0
SIR_SIN_1B	101	103	0	103	0
SIR_SIN_2	103	103	0	103	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 Missing QCC Reports

Number of products with missing QCC reports:

Product name

CS_OFFL_SIR_GDR_2A_20120801T223845_20120802T001758_B001 CS_OFFL_SIR_SAR_1B_20120801T235702_20120802T000044_B001 CS_OFFL_SIR_SAR_2A_20120801T235702_20120802T000044_B001