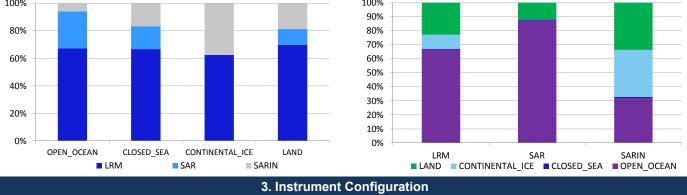


IDEAS+ Daily Report for OFFLINE data:

<u>14/04/2015</u>

Report Production Date:	14-Aug-2015	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal
		Product Header Analysis	Nominal
•		Star Tracker Usage Check	Nominal
		L1B Calibration Usage Check	Nominal
		L1B & L2 Auxiliary Data File Usage Check	Nominal
		L1B & L2 Auxiliary Correction Error Check	Nominal
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5

14-Apr-2015 None 15-Apr-2015 Nothing planned				
	Global Coverage			
Global Coverage - North Pole		Global Coverage - South	Pole	
		Moc	de Coverage (%	 %)
	Stor Anton		LRM	67.2
A AS a A A CAS	Astron Million	*	SAR	20.6
	5% - 3 S		SARIn	12.2
Mode Coverage		Surface Typ	e	
100%	100%			



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

SIRAL instrument(s) in use: SIR

SIRAL - A

4. 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 product file (.DBL)

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are carried out 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

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

Number of products with errors:

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

0

Number of products with errors:

4.5 L1B Auxilary 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

Number of products with errors.

4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Block Degraded Flag: This flag is currently set for a number of individual records generally at the start or end of products (all modes), but this is to be expected.

Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors:

5. 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 product file (.DBL).

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are carried out 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

CryoSat L2 data includes a correction error flag (field 30) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

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SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220150413T235637_20150414T002049_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220150414T002847_20150414T003101_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220150414T003800_20150414T005349_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220150414T005352_20150414T010743_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_2__20150414T012659_20150414T014538_C001 CS OFFL SIR LRM 2 20150414T014617 20150414T015928 C001 CS_OFFL_SIR_LRM_2__20150414T020812_20150414T021010_C001 CS_OFFL_SIR_LRM_2__20150414T021701_20150414T023235_C001 CS OFFL SIR LRM 2 20150414T023437 20150414T024406 C001 CS_OFFL_SIR_LRM_2__20150414T030613_20150414T030633_C001 CS_OFFL_SIR_LRM_2__20150414T030718_20150414T030838_C001 CS OFFL SIR LRM 2 20150414T031059 20150414T032316 C001 CS OFFL SIR LRM_2__20150414T034633_20150414T034934_C001 CS_OFFL_SIR_LRM_2__20150414T035622_20150414T041104_C001 CS_OFFL_SIR_LRM_2__20150414T044936_20150414T045646_C001 CS OFFL SIR LRM 2 20150414T045809 20150414T050443 C001 CS_OFFL_SIR_LRM_2__20150414T051012_20150414T052217_C001 CS OFFL SIR LRM 2 20150414T052445 20150414T053310 C001 CS OFFL SIR LRM 2 20150414T053551 20150414T055518 C001 CS_OFFL_SIR_LRM_2__20150414T061057_20150414T061134_C001 CS_OFFL_SIR_LRM_2__20150414T063354_20150414T064356_C001 CS OFFL SIR LRM 2 20150414T064925 20150414T070043 C001 CS OFFL SIR LRM 2 20150414T071444 20150414T074422 C001 CS_OFFL_SIR_LRM_2__20150414T080722_20150414T082310_C001 CS_OFFL_SIR_LRM_2__20150414T090427_20150414T090845_C001 CS OFFL SIR LRM 2 20150414T091402 20150414T092049 C001 CS_OFFL_SIR_LRM_2__20150414T093054_20150414T093156_C001 CS_OFFL_SIR_LRM_2__20150414T094514_20150414T101910_C001 CS_OFFL_SIR_LRM_2__20150414T103236_20150414T110043_C001 CS_OFFL_SIR_LRM_2__20150414T112408_20150414T115230_C001 CS OFFL SIR LRM 2 20150414T115234 20150414T115735 C001 CS_OFFL_SIR_LRM_2__20150414T120518_20150414T120932_C001 CS_OFFL_SIR_LRM_2__20150414T121152_20150414T122957_C001 CS_OFFL_SIR_LRM_2__20150414T124116_20150414T124757_C001 CS OFFL SIR LRM 2 20150414T130413 20150414T131449 C001 CS OFFL SIR LRM 2 20150414T131929 20150414T132117 C001 CS OFFL SIR LRM 2 20150414T132120 20150414T132139 C001 CS OFFL SIR LRM 2 20150414T132150 20150414T133702 C001 CS_OFFL_SIR_LRM_2__20150414T135522_20150414T140746_C001 CS_OFFL_SIR_LRM_2__20150414T140936_20150414T142221_C001 CS_OFFL_SIR_LRM_2__20150414T142329_20150414T142654_C001 CS_OFFL_SIR_LRM_2__20150414T144910_20150414T145848_C001 CS OFFL SIR LRM 2 20150414T150050 20150414T151605 C001 CS_OFFL_SIR_LRM_2__20150414T154914_20150414T160213_C001 CS OFFL SIR LRM 2 20150414T163915 20150414T165506 C001 CS_OFFL_SIR_LRM_2__20150414T170259_20150414T170423_C001 CS_OFFL_SIR_LRM_2__20150414T170847_20150414T172045_C001 CS OFFL SIR LRM 2 20150414T172615 20150414T173608 C001 CS_OFFL_SIR_LRM_2__20150414T175753_20150414T180049_C001 CS_OFFL_SIR_LRM_2__20150414T181353_20150414T183337_C001

(Retracker 2)

Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or more Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) ecords Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records There is a height and backscatter error for Retracker 2 for one or more Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error 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and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) ecords Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records (Retracker 2) Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records 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CS_OFFL_SIR_LRM_2__20150414T184157_20150414T184522_C001 CS OFFL SIR LRM 2 20150414T184757 20150414T185959 C001 CS_OFFL_SIR_LRM_2__20150414T190529_20150414T191756_C001 CS_OFFL_SIR_LRM_2__20150414T191810_20150414T192006_C001 CS_OFFL_SIR_LRM_2__20150414T194644_20150414T201434_C001 CS OFFL SIR LRM 2 20150414T202055 20150414T202426 C001 CS OFFL SIR LRM 2 20150414T202742 20150414T210219 C001 CS_OFFL_SIR_LRM_2__20150414T211536_20150414T211702_C001 CS_OFFL_SIR_LRM_2__20150414T212604_20150414T212821_C001 CS OFFL SIR LRM 2 20150414T215103 20150414T215343 C001 CS_OFFL_SIR_LRM_2__20150414T215555_20150414T220118_C001 CS_OFFL_SIR_LRM_2_20150414T220709_20150414T222927_C001 CS OFFL SIR LRM 2 20150414T223213 20150414T224112 C001 CS_OFFL_SIR_LRM_2__20150414T230450_20150414T231819_C001 CS_OFFL_SIR_LRM_2__20150414T232006_20150414T233254_C001 CS OFFL SIR LRM 2 20150414T233524 20150414T234016 C001 CS_OFFL_SIR_LRM_2__20150414T234622_20150414T235235_C001 CS OFFL SIR LRM 2 20150414T235244 20150415T001901 C001 CS_OFFL_SIR_SIN_2__20150414T002550_20150414T002847_C001 CS OFFL SIR SIN 2 20150414T003101 20150414T003621 C001 CS_OFFL_SIR_SIN_2__20150414T012202_20150414T012620_C001 CS_OFFL_SIR_SIN_2__20150414T020537_20150414T020812_C001 CS OFFL SIR SIN 2 20150414T021010 20150414T021139 C001 CS_OFFL_SIR_SIN_2__20150414T021512_20150414T021647_C001 CS_OFFL_SIR_SIN_2__20150414T030055_20150414T030208_C001 CS_OFFL_SIR_SIN_2_20150414T030346_20150414T030613_C001 CS_OFFL_SIR_SIN_2__20150414T034039_20150414T034633_C001 CS OFFL SIR SIN 2 20150414T035413 20150414T035558 C001 CS OFFL SIR SIN 2 20150414T044017 20150414T044239 C001 CS OFFL SIR SIN 2 20150414T052253 20150414T052445 C001 CS OFFL SIR SIN 2 20150414T053311 20150414T053514 C001 CS_OFFL_SIR_SIN_2__20150414T061357_20150414T061415_C001 CS_OFFL_SIR_SIN_2__20150414T070232_20150414T070409_C001 CS OFFL SIR SIN 2 20150414T070531 20150414T070657 C001 CS OFFL SIR SIN 2 20150414T071112 20150414T071405 C001 CS_OFFL_SIR_SIN_2__20150414T084223_20150414T084607_C001 CS_OFFL_SIR_SIN_2_20150414T085151_20150414T085305_C001 CS_OFFL_SIR_SIN_2__20150414T102155_20150414T102511_C001 CS_OFFL_SIR_SIN_2__20150414T103024_20150414T103148_C001 CS OFFL SIR SIN 2 20150414T111251 20150414T111344 C001 CS_OFFL_SIR_SIN_2__20150414T115909_20150414T120305_C001 CS_OFFL_SIR_SIN_2__20150414T120932_20150414T121038_C001 CS OFFL SIR SIN 2 20150414T124832 20150414T125033 C001 CS OFFL SIR SIN 2 20150414T125152 20150414T125308 C001 CS_OFFL_SIR_SIN_2__20150414T133716_20150414T133849_C001 CS OFFL SIR SIN 2 20150414T134637 20150414T134820 C001 CS_OFFL_SIR_SIN_2__20150414T142654_20150414T143040_C001 CS OFFL SIR SIN 2 20150414T143045 20150414T143221 C001 CS OFFL SIR SIN 2 20150414T151630 20150414T151814 C001 CS_OFFL_SIR_SIN_2__20150414T152338_20150414T152344_C001

Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Backscatter Error (Retracker 2) records Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) records Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) SARIn X-track Angle Error records SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error records SARIn X-track Angle Error records SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error records SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error records SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error records SARIn X-track Angle Error records

No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 for one or more No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more

CS_OFFL_SIR_SIN_220150414T152502_20150414T153115_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T160707_20150414T161109_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220150414T165545_20150414T165756_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T170237_20150414T170243_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T170252_20150414T170259_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T170423_20150414T170742_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T183518_20150414T183736_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T184137_20150414T184140_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T184522_20150414T184637_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T193522_20150414T193548_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220150414T201445_20150414T201609_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T202426_20150414T202545_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T215428_20150414T215555_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T220118_20150414T220427_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220150414T225245_20150414T225327_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220150414T233409_20150414T233524_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS OFFL SIR SIN 2 20150414T234016 20150414T234343 C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records