



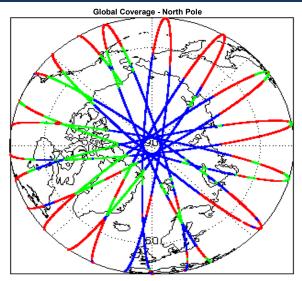
1. Overview

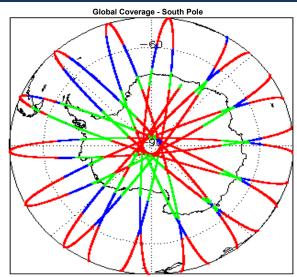
Report Production Date:	14-Jul-2016	
Processor Used:	CryoSat Ice Processor	
Data Used:	L1B and L2 OFFLINE Data	

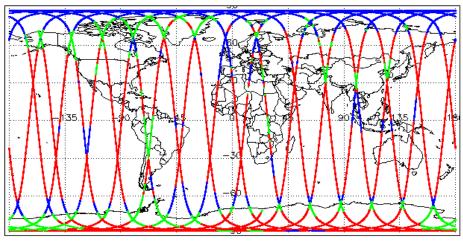
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Star Tracker Usage Check	Nominal
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	See Section 5.3
L1B & L2 Auxiliary Correction Error Check	Nominal
L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5

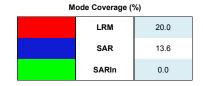
Mission / Instrument News		
14-Jun-2016	None	
15-Jun-2016	None	
16-Jun-2016	Nothing planned	

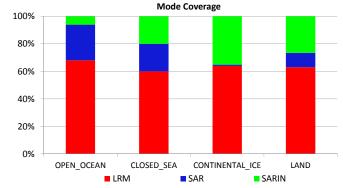
2. Global Coverage

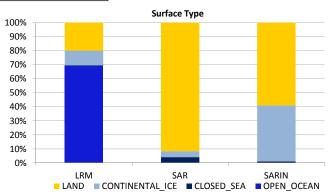












3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
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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:

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

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:

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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:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20160615T010402_20160615T010530_C001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

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:

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:

Product	AUX File	Comment
CS_OFFL_SIR_GDR_2_20160615T233834_20160616T011748_C001	CS_OPER_AUX_ORBDOR_20160614T215524_2016061 6T002324_0001	Coverage missing for intervals [2016-06-16T00:23:24, 2016-06-16T01:17:47]

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.

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_220160615T001212_20160615T004524_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_2_20160615T011312_20160615T013504_C001	Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160615T015054_20160615T022701_C001	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160615T023659_20160615T023846_C001	Error (Retracker 2)	records
CS_OFFL_SIR_LRM_220160615T024859_20160615T031148_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T033053_20160615T040700_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_220160615T041922_20160615T043747_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_220160615T043840_20160615T045207_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20160615T050035_20160615T050233_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160615T050946_20160615T052457_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T052659_20160615T053622_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_2_20160615T055820_20160615T060110_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_20160615T060225_20160615T061540_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_220160615T064922_20160615T070401_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CO OFFI CID LDM C. COMMONDETOTATION COMMONDETOTATION	(Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error
CS_OFFL_SIR_LRM_220160615T074159_20160615T081355_C001	(Retracker 3), Backscatter Error (Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T081710_20160615T081924_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160615T081935_20160615T082531_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160615T082911_20160615T085353_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_220160615T092552_20160615T093620_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_220160615T094155_20160615T095242_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_220160615T100801_20160615T102905_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS OFFI CID LDM 2 2046064FT402009 2046064FT402244 C004	(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160615T102908_20160615T103341_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records
CS_OFFL_SIR_LRM_220160615T103935_20160615T104444_C001	(Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T105931_20160615T111533_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T111648_20160615T113118_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T122312_20160615T122440_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T123749_20160615T131057_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_220160615T132639_20160615T135256_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_220160615T135342_20160615T135452_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T140228_20160615T140255_C001	(Retracker 2) Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
CS OFFL SIR LRM 2 20160615T141529 20160615T144932 C001	Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	records There is a height and backscatter error for Retracker 2 and a height error
	(Retracker 2)	for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T145740_20160615T150153_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220160615T150636_20160615T153225_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T153249_20160615T154020_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T155246_20160615T160711_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_20160615T161152_20160615T161336_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_20160615T161339_20160615T162859_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_20160615T164746_20160615T170010_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
	Error (Retracker 2) Height Error (Retracker 2), Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
CS_OFFL_SIR_LRM_220160615T170216_20160615T171943_C001	Error (Retracker 2) Height Error (Retracker 2), Height Error	records There is a height and backgratter error for Petracker 2, and a height error.
CS_OFFL_SIR_LRM_220160615T174143_20160615T175113_C001	(Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T175314_20160615T180752_C001	(Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220160615T182409_20160615T182552_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_220160615T184137_20160615T184618_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records

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Secret. Secret. 20. Accordance in control inforced. Cold in Cold Processing Cold Inforced Processing Col	CS_OFFL_SIR_LRM_220160615T184723_20160615T185436_C001	,	
Sept. Similar Environmental Control Strategy Control Stra	CS_OFFL_SIR_LRM_220160615T193111_20160615T194640_C001		
Spirit Spiritures (1) Copyrell and Light Spiriture	CS_OFFL_SIR_LRM_220160615T195521_20160615T195652_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CQUITE_SEL_PER_2_representative_processory_color	CS_OFFL_SIR_LRM_220160615T200202_20160615T203557_C001	, ,	•
leg per	CS_OFFL_SIR_LRM_2_20160615T210103_20160615T212611_C001	(Retracker 3), Backscatter Error	
Each Pier Mark 2, 2010000112010012010120101201000010012010000010000100001000010000100001000010000	CS_OFFL_SIR_LRM_220160615T213420_20160615T213745_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
Seq. OH, LINE 2, 2 entopolitizations of process of process of the company of the	CS_OFFL_SIR_LRM_220160615T214115_20160615T215215_C001		ů .
Held Elite (Person 2). Bell Live 1, 2 enterestratorial, protected protein protected in the category and to declarative root for forecasts of or own or own of the category and to declarative root for forecasts of or own or own of the category and to declarative root for forecasts of the category and to declarative root for forecasts of the category and to declarative root for forecasts of the category and to declarative root for forecasts of the category and to declarative root for forecasts of the category and to declarative root for forecasts of the category and to declarative root for forecasts of the category and to declarative root forecasts of the category and the category	CS_OFFL_SIR_LRM_2_20160615T215751_20160615T220746_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Section Part	CS_OFFL_SIR_LRM_220160615T220754_20160615T221246_C001	Height Error (Retracker 2), Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Co. OFT. SR. U. 2. 20180151223117_00100015122116_CO. OOI	CS_OFFL_SIR_LRM_220160615T223855_20160615T230535_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error	There is a height and backscatter error for Retracker 2 and a height error
Description of the property	CS_OFFL_SIR_LRM_220160615T230836_20160615T231314_C001	,	No DEM or Slope Model was used for the location of one or more records
CS_OFF_SR_SR_2_2000014722601_200081700984_C001 CS_OFF_SR_SR_2_2000014722601_200081700984_C001 CS_OFF_SR_SR_2_2000014722601_200081700984_C001 CS_OFF_SR_SR_2_2000014722601_200081700984_C001 CS_OFF_SR_SR_2_2000014722601_200081700984_C001 CS_OFF_SR_SR_2_200001472042_200081700984_C001 CS_OFF_SR_SR_2_200001472042_200081700984_C001 CS_OFF_SR_SR_2_200001472042_200081700984_C001 CS_OFF_SR_SR_2_200001472042_200081700984_C001 CS_OFF_SR_SR_2_200001472042_200081700984_C001 CS_OFF_SR_SR_2_200001472042_200081700984_C001 CS_OFF_SR_SR_2_200001470042_200081700984_C001 CS_OFF_SR_SR_2_200001470042_200081700984_C001 CS_OFF_SR_SR_2_200001470042_200081700984_C001 CS_OFF_SR_SR_2_200001470042_200081700484_C001 CS_OFF_SR_SR_2_200001470042_200081700484_C001 CS_OFF_SR_SR_2_200001470042_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700442_200081700484_C001 CS_OFF_SR_SR_2_2000014700444_C001 CS_OFF_SR_SR_2_200001470044_C001 CS_OFF_SR_SR_2_200001470044_C001 CS_OFF_SR_SR_2_200001470044_C001 CS_OFF_SR_SR_2_200001470044_C001 CS_OFF_SR_SR_2_200001470044_C001 CS_OFF_SR_SR_2_200001470044_C001 CS_OFF_SR_SR_2_200001470044_C001 CS_OFF_SR_SR_2_2000014704	CS_OFFL_SIR_LRM_220160615T231317_20160615T231650_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
S. OFFL. SIR. SIN. 2. 201009147029851 201009157000915 C001 SARIO X-track Angle Entry SARIO X-track Angle Entry An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more S. OFFL. SIR. SIN. 2. 201009157001702 (201000157001702 C001 SARIO X-track Angle Entry An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more S. OFFL. SIR. SIN. 2. 20100915701492 (2010015701472 C001 SARIO X-track Angle Entry An artisquous angle was detected for SARio mode for one or more S. OFFL. SIR. SIN. 2. 20100915701492 (2010015701472 C001 SARIO X-track Angle Entry An artisquous angle was detected for SARio mode for one or more S. OFFL. SIR. SIN. 2. 20100915701492 (2010015701492 C001 SARIO X-track Angle Entry An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detected for SARio mode for one or more An artisquous angle was detec	CS_OFFL_SIR_LRM_220160615T232112_20160615T235436_C001	(Retracker 3), Backscatter Error	
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records	CS_OFFL_SIR_SIN_220160615T181724_20160615T182302_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more
	-		Coords

CS_OFFL_SIR_SIN_220160615T182307_20160615T182336_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_220160615T185918_20160615T190329_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_220160615T194803_20160615T195023_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T195500_20160615T195506_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T195652_20160615T200007_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T212739_20160615T212855_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T213401_20160615T213403_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T213745_20160615T213901_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T222745_20160615T222824_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_220160615T230712_20160615T230836_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T231314_20160615T231317_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160615T231650_20160615T231807_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records