





# 1. Overview

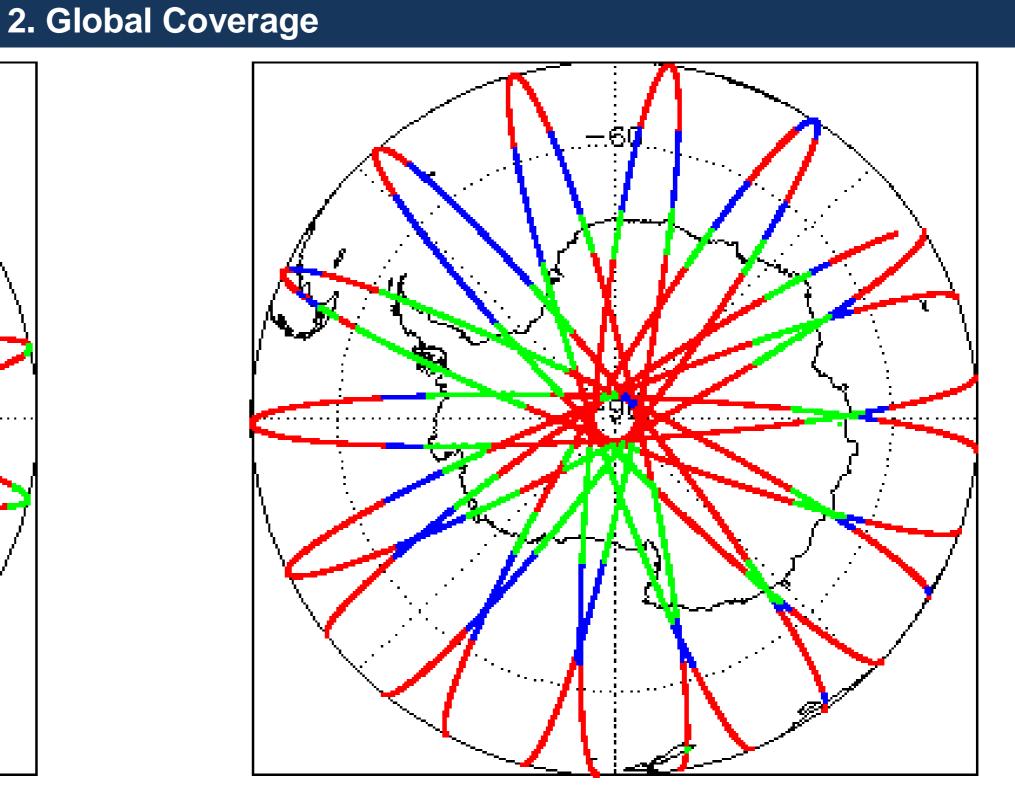
<b>Report Production Date:</b>	22-Jan-2023
Processor Used:	CryoSat Ice Processor
Data Used:	L1B and L2 OFFLINE Data

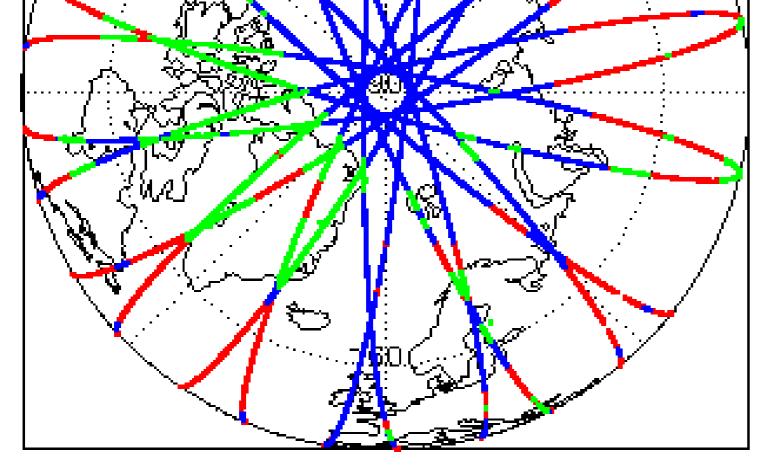
#### We would love to hear from you!

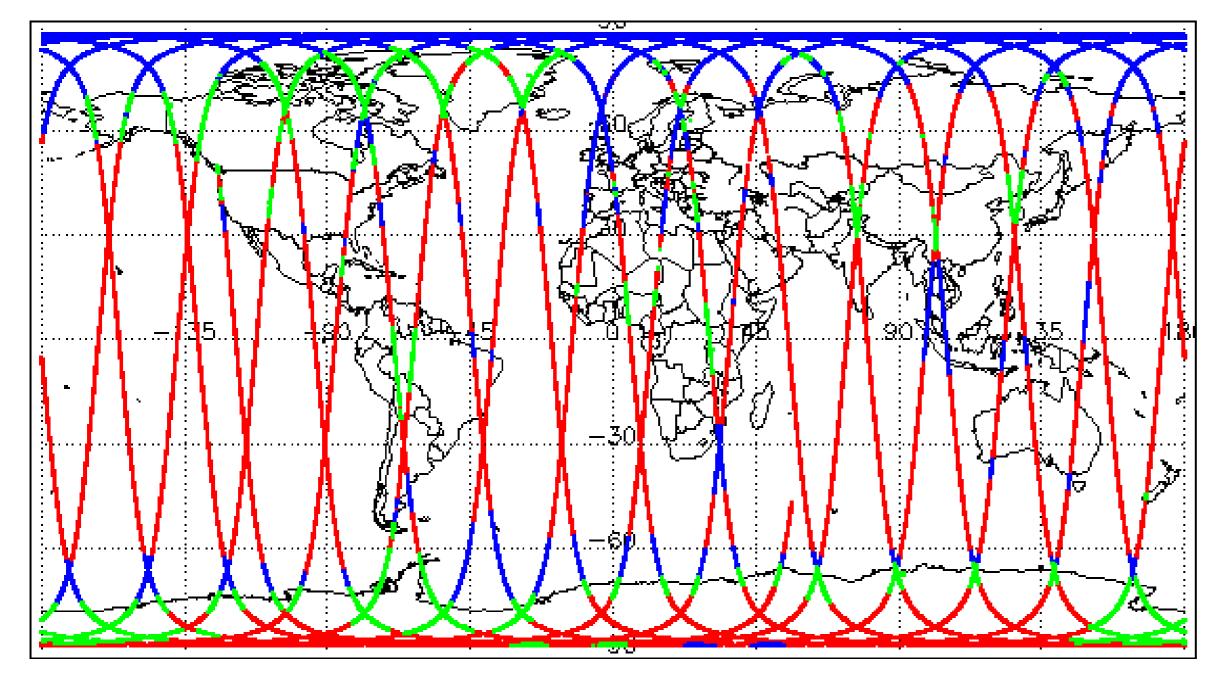
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2\_qc\_team@telespazio.com

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 Tracking Flag Check	See Section 4.4
L1B Calibration Usage Check	Nominal
L1B & L2 Auxiliary Data File Usage Check	Nominal
L1B & L2 Auxiliary Correction Error Check	See Section 5.4
L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5
QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3

Mission / Instru	iment News
22-Dec-2022	None
23-Dec-2022	None
24-Dec-2022	Nothing planned



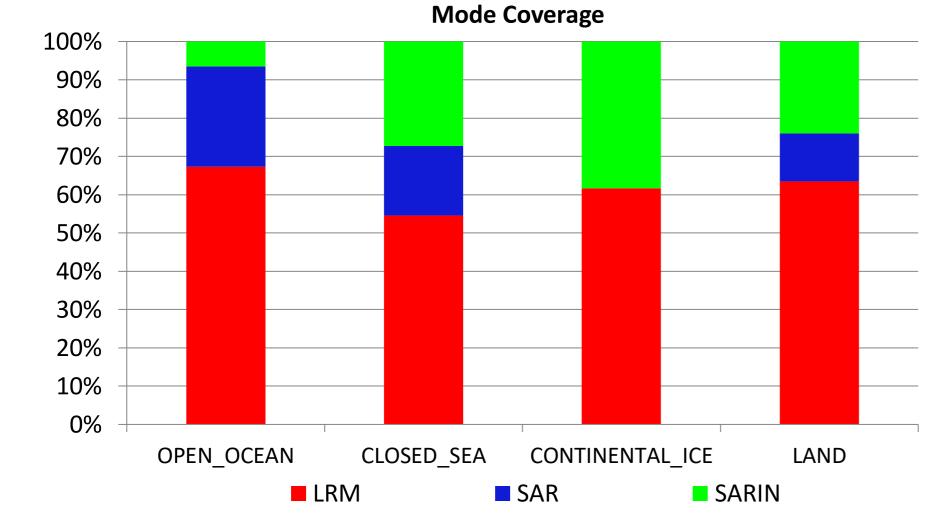


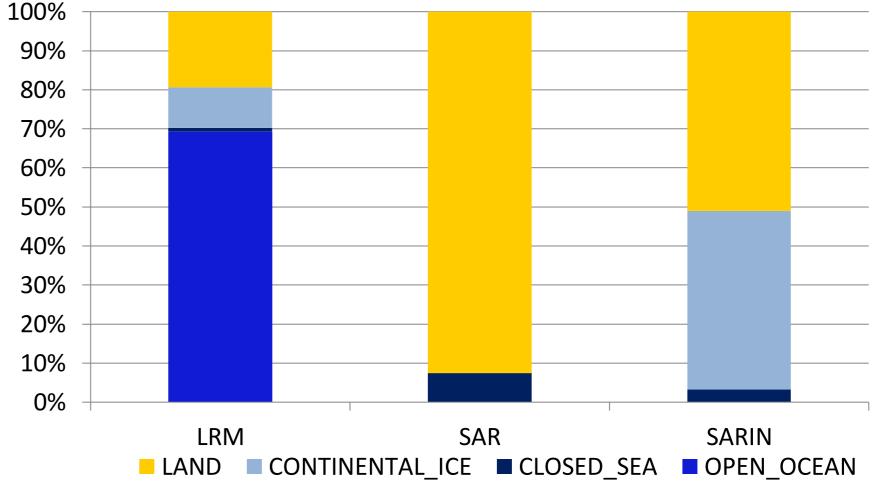




LRM	65.8
SAR	20.4
SARIn	13.8

Surface Type





## **3. Instrument Configuration**

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

SIRAL instrument(s) in use:	SIRAL - A			
4. Level 1B Data Quality Check				
4.1 L1B Product Format Che	ck			
Each product, retrieved and unpacked from	n 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:	0			
4.2 L1B Product Header Ana	lysis			
For all products, a series of pre-defined che	ecks are carried out on the MPH	I 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 Chec	k			
Each product is checked in order to ensure	e a valid star tracker file has beer	en used in processing.		
Number of products with errors:	0			
4.4 L1B Tracking Flags Chec	;k			
CryoSat L1B data includes a tracking 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 some products over land, but this is to be expected.				
Number of products with errors:	143			

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20221223T010813_20221223T011126_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T011159_20221223T011358_E001	Loss of echo	The tracking echo is missing for one or more records

CS\_OFFL\_SIR\_LRM\_1B\_20221223T011442\_20221223T012114\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T012120\_20221223T012235\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T012246\_20221223T012359\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T012402\_20221223T013238\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T014602\_20221223T015146\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T025033\_20221223T025148\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T025200\_20221223T025308\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T030214\_20221223T032042\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T041237\_20221223T041311\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T043230\_20221223T043254\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T043319\_20221223T043340\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T043516\_20221223T043958\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T044039\_20221223T050003\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T051648\_20221223T054921\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T055105\_20221223T055131\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T055133\_20221223T055207\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T055214\_20221223T055314\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T062458\_20221223T063807\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T064656\_20221223T064853\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T065025\_20221223T065356\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T065558\_20221223T071116\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T072609\_20221223T072707\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T072711\_20221223T072714\_E001 CS OFFL SIR LRM 1B 20221223T072716 20221223T072717 E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T072720\_20221223T072733\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T072740\_20221223T072741\_E001

Loss of echo Loss of echo

The tracking echo is missing for one or more records The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20221223T072747_20221223T072815_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T072818_20221223T073301_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T074830_20221223T080200_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T080641_20221223T080809_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T080812_20221223T080854_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T080857_20221223T080859_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T080901_20221223T080906_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T080910_20221223T080910_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T080916_20221223T080944_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T080946_20221223T081525_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T081550_20221223T081621_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T085835_20221223T085944_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T090149_20221223T090230_E001	Loss of echo	The tracking echo is missing for one or more records

CS\_OFFL\_SIR\_LRM\_1B\_20221223T090248\_20221223T090251\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090255\_20221223T090528\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090530\_20221223T090538\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090541\_20221223T090546\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090550\_20221223T090712\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090715\_20221223T090739\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090741\_20221223T090832\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090835\_20221223T090844\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090851\_20221223T090911\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090915\_20221223T090916\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T090919\_20221223T091249\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T092824\_20221223T093406\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T093651\_20221223T100028\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T100331\_20221223T101157\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T101455\_20221223T104010\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T104343\_20221223T104816\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T110316\_20221223T110401\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T110523\_20221223T110914\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T11123\_20221223T111239\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T111244\_20221223T111249\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T111252\_20221223T113846\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T115356\_20221223T121919\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T121921\_20221223T122004\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T122007\_20221223T122047\_E001 CS\_OFFL\_SIR\_LRM\_1B\_20221223T122054\_20221223T122306\_E001

The tracking echo is missing for one or more records The tracking echo is missing for one or more records

CS_OFFL_SIR_LRM_1B_20221223T122552_20221223T122606_E001
CS_OFFL_SIR_LRM_1B_20221223T122606_20221223T122841_E001
CS_OFFL_SIR_LRM_1B_20221223T134321_20221223T134731_E001
CS_OFFL_SIR_LRM_1B_20221223T135105_20221223T135121_E001
CS_OFFL_SIR_LRM_1B_20221223T135300_20221223T135848_E001
CS_OFFL_SIR_LRM_1B_20221223T140137_20221223T140209_E001
CS_OFFL_SIR_LRM_1B_20221223T140226_20221223T140401_E001
CS_OFFL_SIR_LRM_1B_20221223T140836_20221223T140849_E001
CS_OFFL_SIR_LRM_1B_20221223T153350_20221223T153929_E001
CS_OFFL_SIR_LRM_1B_20221223T154144_20221223T154255_E001
CS_OFFL_SIR_LRM_1B_20221223T160224_20221223T163116_E001
CS_OFFL_SIR_LRM_1B_20221223T163127_20221223T163621_E001
CS_OFFL_SIR_LRM_1B_20221223T164408_20221223T164822_E001
CS_OFFL_SIR_LRM_1B_20221223T173920_20221223T173941_E001
CS_OFFL_SIR_LRM_1B_20221223T173943_20221223T174030_E001
CS_OFFL_SIR_LRM_1B_20221223T174033_20221223T174041_E001
CS_OFFL_SIR_LRM_1B_20221223T175818_20221223T175952_E001
CS_OFFL_SIR_LRM_1B_20221223T175956_20221223T180035_E001
CS_OFFL_SIR_LRM_1B_20221223T180038_20221223T180852_E001
CS_OFFL_SIR_LRM_1B_20221223T183412_20221223T184635_E001
CS_OFFL_SIR_LRM_1B_20221223T191821_20221223T191827_E001
CS_OFFL_SIR_LRM_1B_20221223T191829_20221223T191839_E001
CS_OFFL_SIR_LRM_1B_20221223T191841_20221223T191844_E001
CS_OFFL_SIR_LRM_1B_20221223T191848_20221223T191907_E001
CS_OFFL_SIR_LRM_1B_20221223T191914_20221223T191922_E001
CS_OFFL_SIR_LRM_1B_20221223T191928_20221223T191941_E001
CS OFEL SID LDM 1D 202212227101044 202212227102120 E001

CS_OFFL_SIR_LRM_1B_20221223T122552_20221223T122606_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T122606_20221223T122841_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T134321_20221223T134731_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T135105_20221223T135121_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T135300_20221223T135848_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T140137_20221223T140209_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T140226_20221223T140401_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T140836_20221223T140849_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T153350_20221223T153929_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T154144_20221223T154255_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T160224_20221223T163116_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T163127_20221223T163621_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T164408_20221223T164822_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T173920_20221223T173941_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T173943_20221223T174030_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T174033_20221223T174041_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T175818_20221223T175952_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T175956_20221223T180035_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T180038_20221223T180852_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T183412_20221223T184635_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T191821_20221223T191827_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T191829_20221223T191839_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T191841_20221223T191844_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T191848_20221223T191907_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T191914_20221223T191922_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T191928_20221223T191941_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T191944_20221223T192120_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T192124_20221223T192126_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T192128_20221223T192135_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T192137_20221223T192148_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T192152_20221223T192211_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T192216_20221223T192229_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T192246_20221223T192401_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T192808_20221223T193714_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T193716_20221223T193738_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T193941_20221223T194654_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T201621_20221223T201915_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T201921_20221223T201932_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T201936_20221223T202030_E001	Loss of echo	The tracking echo is missing for one or more records

Loss of echo

CS_OFFL_SIR_LRM_1B_20221223T202034_20221223T202055_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T202130_20221223T202201_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T202804_20221223T202945_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T202948_20221223T203222_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T203224_20221223T203618_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T203747_20221223T204101_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T205659_20221223T210054_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210057_20221223T210059_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210101_20221223T210105_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210107_20221223T210108_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210111_20221223T210116_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T2101119_20221223T210110_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210113_20221223T210120_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210126_20221223T210106_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210144_20221223T210140_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210150_20221223T210151_E001 CS_OFFL_SIR_LRM_1B_20221223T210153_20221223T210159_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210135_20221223T210139_E001 CS_OFFL_SIR_LRM_1B_20221223T210205_20221223T210215_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210205_20221223T210215_E001 CS_OFFL_SIR_LRM_1B_20221223T210246_20221223T210250_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210253_20221223T210201_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210303_20221223T210625_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210627_20221223T210627_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210630_20221223T210633_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210637_20221223T210653_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210656_20221223T210656_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210659_20221223T210702_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210704_20221223T210749_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210937_20221223T211042_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T214152_20221223T214315_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T214803_20221223T221046_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T221049_20221223T221054_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T221056_20221223T221449_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T221525_20221223T222222_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T223641_20221223T223940_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T223956_20221223T224344_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T224738_20221223T231310_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T232052_20221223T232417_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T235609_20221223T235642_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T235732_20221223T235851_E001	Loss of echo	The tracking echo is missing for one or more records
4.5 L1B Calibration Usage Check		
Each product is checked in order to ensure that the necessary calibration files h	ave been used in processing.	
Number of products with errors: 0		
4.6 L1B Auxilary Data File Usage Check		

CS_OFFL_SIR_LRM_1B_20221223T202034_20221223T202055_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T202130_20221223T202201_E001	Loss of echo	The tracking echo is missing for one or more records
 CS_OFFL_SIR_LRM_1B_20221223T202804_20221223T202945_E001	Loss of echo	The tracking echo is missing for one or more records
 CS_OFFL_SIR_LRM_1B_20221223T202948_20221223T203222_E001	Loss of echo	The tracking echo is missing for one or more records
 CS_OFFL_SIR_LRM_1B_20221223T203224_20221223T203618_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T203747_20221223T204101_E001	Loss of echo	The tracking echo is missing for one or more records
	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210057_20221223T210059_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210101_20221223T210105_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210107_20221223T210108_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210111_20221223T210116_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210119_20221223T210120_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210128_20221223T210138_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210144_20221223T210145_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210144_20221223T210143_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210153_20221223T210151_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210135_20221223T210135_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210205_20221223T210215_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210253_20221223T210301_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210303_20221223T210625_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210627_20221223T210627_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210630_20221223T210633_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210637_20221223T210653_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210656_20221223T210656_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210659_20221223T210702_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210704_20221223T210749_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210937_20221223T211042_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T210337_20221223T211042_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T214803_20221223T214866_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T221049_20221223T221040_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T221056_20221223T221054_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20221223T221030_20221223T221443_E001		
CS_OFFL_SIR_LRM_1B_202212231221525_202212231222222_E001	Loss of echo Loss of echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202212231223041_202212231223940_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202212231223956_202212231224344_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202212231224736_202212231231310_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202212231232052_202212231232417_E001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_202212231235009_202212231235042_E001 CS_OFFL_SIR_LRM_1B_20221223T235732_20221223T235851_E001	Loss of echo	The tracking echo is missing for one or more records
00_011 L_011\_L1\W_1D_202212231233732_202212231233031_E001		
4.5 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: 0		
A 6 I 18 Auvilany Data Eila Ucasa Chack		
I.6 L1B Auxilary Data File Usage Check		

Number of products with errors:

0

0

## 4.7 L1B Auxiliary Correction Error Check

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

Number of products with errors:

### 4.8 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag 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 Applied 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:

0

## 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:

## 5.4 L2 Auxiliary Correction Error Check

CryoSat L2 data includes a correction error flag 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 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.

Sea State Bias error: This flag is currently set in all L2 LRM products over ocean, indicating a problem with the sea state bias Due to a known anomaly, the sea state bias field is currently unfilled in all Baseline-E L2 LRM products. This anomaly will be resolved in the next IPF update.

**Snow Depth Model error:** This flag is currently set in all L2 SAR products over ocean, which fall outside of the extent of the current snow depth model. Currently the snow depth model is only available over the high-latitude Arctic. There is no model currently provided for the Antarctic or marginal Arctic regions. An updated model will be provided in the next IPF update.

#### Number of products with errors:

120

0

0

Back Start   Back Start <thback start<="" th="">   Back Start   Back Sta</thback>	Product	Test Failed	Description
Cale Units Son V 2   Cale Cale V 2   Cale V	CS_OFFL_SIR_SAR_220221223T000335_20221223T000426_E001	Snow depth model	·
Start Bits Serv. 2. Add2 1221 (11) Serv. 2021 (1221) Serv. 4000 (1000 - 1000 - 1000 - 1000 (1000 - 1000 - 1000 - 1000 (1000 - 1000 - 1000 - 1000 (1000 - 1000 - 1000 - 1000 (1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 (1000 - 10000 - 10000 - 1000 - 1000 - 1000 - 10000 - 1000 - 10000 - 1000 -	CS_OFFL_SIR_SAR_2_20221223T001614_20221223T001857_E001	Snow depth model	
Lab. Lab. Lab. 10   Lab. Lab. Lab. Lab. Lab. Lab. Lab. Lab.	CS_OFFL_SIR_SAR_220221223T010346_20221223T010813_E001	Snow depth model	
Start OFTL BR SAR 2   2021/221701225   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/221701425   2021/2217021702   2011/211   Since depth model   There is an error with the Since Depth value, where or or note encode data back of the example   Since depth model   There is an error with the Since Depth value, where or or note encode data back of the example   Since depth model   There is an error with the Since Depth value, where or or note encode data back of the example   Since depth model   There is an error with the Since Depth value, where or or note encode data back of the example   Since depth model   There is an error with the Since Depth value, where or or note encode data back of the example   Since depth model   There is an error with the Since Depth value, where or or note encode	CS_OFFL_SIR_SAR_220221223T011358_20221223T011435_E001	Snow depth model	
Start Big	CS_OFFL_SIR_SAR_220221223T011437_20221223T011442_E001	Snow depth model	
Start   Start <th< td=""><td>CS_OFFL_SIR_SAR_220221223T012235_20221223T012246_E001</td><td>Snow depth model</td><td>·</td></th<>	CS_OFFL_SIR_SAR_220221223T012235_20221223T012246_E001	Snow depth model	·
S0, ME, 30, S0, MC, 20021021011042, 20021021016400, 20021021016400, 2001   Show depth model   Intel is an arrow table from our statule from	CS_OFFL_SIR_SAR_220221223T013238_20221223T013752_E001	Snow depth model	
Sub_CH_L_BR_SAR2022 (2210)   Sale deskin model   Inter calcular of the cumma interval explain model     GS_OFFL_SIR_SAR2022 (2210)   Sale deskin model   There is an error with the Sale Deskin term of the cumma interval explain model     GS_OFFL_SIR_SAR2022 (2210)   Sale deskin model   There is an error with the Sane Degin explay. Where one or more records into a deskin model     GS_OFFL_SIR_SAR2022 (2210)   Sale deskin model   There is an error with the Sane Degin explay. Where one or more records into a deskin model     GS_OFFL_SIR_SAR_2_2022 (2210)   Sale deskin model   There is an error with the Sane Degin explay. Where one or more records into a deskin model     GS_OFFL_SIR_SAR_2_2022 (2210)   Sale deskin model   There is an error with the Same Degin explay. Where one or more records into a deskin model     GS_OFFL_SIR_SAR_2_2022 (2210)   Sale deskin model   There is an error with the Same Degin explay. Where one or more records into a deskin model     GS_OFFL_SIR_SAR_2_2022 (2210)   Sale deskin model   There is an error with the Same Degin wale. Where one or more records into a deskin model     GS_OFFL_SIR_SAR_2_2022 (2210)   Sale deskin model   There is an error with the Same Degin wale. Where one or more records into a deskin model     GS_OFFL_SIR_SAR_2_2022 (2210)   Sale deskin model   There is an error with the Same Degin wale. Where one or more records into a deskin model	CS_OFFL_SIR_SAR_220221223T014223_20221223T014438_E001	Snow depth model	·
Start   Start <th< td=""><td>CS_OFFL_SIR_SAR_220221223T015503_20221223T015820_E001</td><td>Snow depth model</td><td></td></th<>	CS_OFFL_SIR_SAR_220221223T015503_20221223T015820_E001	Snow depth model	
S2_0FL_SIR_SAR_20021/23102/0142_012/123102403_E001   Show depth model   The success of the center of the survey depth model     05_0FL_SIR_SAR_20021/23102404_0021/23102403_E001   Show depth model   The success of the center of the survey depth model     05_0FL_SIR_SAR_20021/23102403_E0021/23102404_E001   Show depth model   The sis an error with the Show Depth value, where note or more records rate survey depth model     05_0FL_SIR_SAR_2_0021/231030345_20221/231030345_20221/231003045_20221/231003045_20221/231003045_20221/231003045_2021/231003045_2021/231003045_2021/231003045_2021/231003045_2021/231003045_2021/231003045_2021/231003045_2021/231003045_2010000   Show depth model   The sis an error with the Show Depth value, where note or more records rate survey depth model     05_0FL_SIR_SAR_2_0021/231003145_20221/231011126_E001   Show depth model   The sis an error with the Show Depth value, where note or more records rate survey depth model     05_0FFL_SIR_SAR_2_0021/231011126_E001   Show depth model   The sis an error with the Show Depth value, where note or more records rate survey depth model     05_0FFL_SIR_SAR_2_0021/23101114_E001   Show depth model   The sis an error with the Show Depth value, where note or more records rate survey depth model     05_0FFL_SIR_SAR_2_0021/2310114_E001   Show depth model   The sis an error with the Show Depth value, where note or more records rate survey depth model     05_0FFL_SIR_SAR_2_00221/23101114_E0021/231010103   Show depth model	CS_OFFL_SIR_SAR_220221223T023104_20221223T023127_E001	Snow depth model	·
So DFL Six SAX 2   212/212/212/212/212/212/212/212/212/212	CS_OFFL_SIR_SAR_220221223T024132_20221223T024434_E001	Snow depth model	
Start SHL   S	CS_OFFL_SIR_SAR_220221223T024644_20221223T025033_E001	Snow depth model	
SG DFL_SIR_SR_2_0221223T03345_20221223T03376_E001 Snow depth model Take is a unrew ith the Survert now depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is one depth model is outside of the extert of the unrent sow depth model is one depth model is one depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is one depth model is outside of the extert of the unrent sow depth model is one depth model is one depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is one depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is one or more is outside.   CS_OFFL_SIR_SAR_2_20221223T041142_0221223T041242_E001 Snow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth model is outside of the extert of the unrent sow depth m	CS_OFFL_SIR_SAR_220221223T025308_20221223T025629_E001	Snow depth model	·
Super-Land Start   Super-Land Start<	CS_OFFL_SIR_SAR_220221223T032043_20221223T032404_E001	Snow depth model	
Status   Status<	CS_OFFL_SIR_SAR_220221223T033345_20221223T033705_E001	Snow depth model	
Status   Status   Status   Status   Fails outside of the action of the ourient answ depth model     CS OFFL SIR SAR 2_20221223T041142_20221223T041144_E001   Snow depth model   There is an error with the Snow Depth value, where one or more records fails outside of the extent of the ourient snow depth model     CS_OFFL_SIR_SAR_2_20221223T041146_20221223T041237_E001   Snow depth model   There is an error with the Snow Depth value, where one or more records fails outside of the extent of the ourient snow depth model     CS_OFFL_SIR_SAR_2_20221223T042336_20221223T042322_E001   Snow depth model   There is an error with the Snow Depth value, where one or more records fails outside of the extent of the ourient snow depth model     CS_OFFL_SIR_SAR_2_20221223T042336_20221223T042422   E001   Snow depth model   There is an error with the Snow Depth value, where one or more records fails outside of the extent of the ourient snow depth model     CS_OFFL_SIR_SAR_2_20221223T04336_20221223T043425   E001   Snow depth model   There is an error with the Snow Depth value, where one or more records fails outside of the extent of the ourient snow depth model     CS_OFFL_SIR_SAR_2_20221223T043340_20221223T043436_E001   Snow depth model   There is an error with the Snow Depth value, where one or more records fails outside of the extent of the current snow depth model     CS_OFFL_SIR_SAR_2_20221223T043340_20221223T043434   E001   Snow depth model   There is an error with the Snow Depth	CS_OFFL_SIR_SAR_220221223T041108_20221223T041128_E001	Snow depth model	
CS_UFFL_SIR_SAR_2_002212231041144_200212231041144_E001 Show depth model [also cutaids of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231041232 E001 Snow depth model There is an error with the Snow Depth value, where one or more records falso cutaids of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231042336_202212231042342_E001 Snow depth model There is an error with the Snow Depth value, where one or more records falso cutaids of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231042342_E001 Snow depth model There is an error with the Snow Depth value, where one or more records falso cutaids of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231043255_202212231043348_E001 Snow depth model There is an error with the Snow Depth value, where one or more records falso cutaids of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231043340_202212231043340_E001 Snow depth model There is an error with the Snow Depth value, where one or more records falso cutaids of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_20221223105104_202212231051648_E001 Snow depth model There is an error with the Snow Depth value, where one or more records falso cutaids of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231051644_202212231051648_E001 Snow depth model There is an error with the Snow Depth value, where one or more records falso cutaids of the extent of the current snow depth model <td>CS_OFFL_SIR_SAR_220221223T041130_20221223T041136_E001</td> <td>Snow depth model</td> <td></td>	CS_OFFL_SIR_SAR_220221223T041130_20221223T041136_E001	Snow depth model	
S0 OFFL SIR SAR 2 20221223104114e 202212231041237 E001 Snow depth model fails outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231042032_202212231042032_202212231042032_202212231042032_202212231042032_20221223104201_20221223104201_20221223104201_20221223104201_20221223104201_20221223104201_20221223104201_20221223104201_20221223104201_20221223104201_202212231043202_E001 Snow depth model There is an error with the Snow Depth value, where one or more records fails outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231043045_202212231043318_E001 Snow depth model There is an error with the Snow Depth value, where one or more records fails outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_20221223104304_0202212231043340_E001 Snow depth model There is an error with the Snow Depth value, where one or more records fails outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231050004_202212231051648_E001 Snow depth model There is an error with the Snow Depth value, where one or more records fails outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231050042_202212231056043_E001 Snow depth model There is an error with the Snow Depth value, where one or more records fails outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231056043_202212231056049_E001 Snow depth model There is an error with the Snow Depth value, where one or more records fails outside of the extent of the current snow depth model   CS_	CS_OFFL_SIR_SAR_2_20221223T041142_20221223T041144_E001	Snow depth model	
CS_OFFL_SIR_SAR_2_20221223104230_20221223104232_E001 Show depth model   CS_OFFL_SIR_SAR_2_202212231042336_202212231042442_E001 Snow depth model   CS_OFFL_SIR_SAR_2_202212231042501_202212231042302_9E001 Snow depth model   CS_OFFL_SIR_SAR_2_202212231042501_202212231043229_E001 Snow depth model   There is an error with the Snow Depth value, where one or more records talls outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231043255_202212231043316_E001 Snow depth model   CS_OFFL_SIR_SAR_2_20221223104330_202212231043515_E001 Snow depth model   CS_OFFL_SIR_SAR_2_20221223105004_202212231050430_E001 Snow depth model   CS_OFFL_SIR_SAR_2_202212231051604_202212231051648_E001 Snow depth model   There is an error with the Snow Depth value, where one or more records talls outside of the extent of the current snow depth model   CS_OFFL_SIR_SAR_2_202212231051642_202212231051648_E001 Snow depth model   CS_OFFL_SIR_SAR_2_202212231056043_202212231056049_E001 Snow depth model	CS_OFFL_SIR_SAR_2_20221223T041146_20221223T041237_E001	Snow depth model	
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CS_OFFL_SIR_SAR_2_20221223T063808_20221223T064421_E001Snow depth modelThere is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth modelCS_OFFL_SIR_SAR_2_20221223T065530_20221223T065558_E001Snow depth modelThere is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth modelCS_OFFL_SIR_SAR_2_20221223T071116_20221223T071318_E001Snow depth modelThere is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth modelCS_OFFL_SIR_SAR_2_20221223T071116_20221223T071318_E001Snow depth modelThere is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth modelCS_OFFL_SIR_SAR_2_20221223T074754_20221223T074754_20221223T074830_E001Snow depth modelThere is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model	CS_OFFL_SIR_SAR_220221223T062423_20221223T062458_E001	Snow depth model	
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CS_OFFL_SIR_SAR_2_20221223T071116_20221223T071318_E001 Snow depth model There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records There is an error with the Snow Depth value, where one or more records There is an error with the Snow Depth value, where one or more records the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records the extent of the snow Depth value, where one or more records the extent of the Snow Depth value are conducted to the extent of	CS_OFFL_SIR_SAR_220221223T065530_20221223T065558_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS OFEL SIR SAR 2 20221223T074754 20221223T074830 E001 Snow depth model	CS_OFFL_SIR_SAR_220221223T071116_20221223T071318_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
	CS_OFFL_SIR_SAR_220221223T074754_20221223T074830_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records

CS_OFFL_SIR_SAR_220221223T081525_20221223T081550_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T081621_20221223T081719_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T083443_20221223T083533_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T084947_20221223T085740_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_2_20221223T085740_20221223T085752_E001		falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T085754_20221223T085835_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T092120_20221223T092146_E001	Snow depth model	falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T092331_20221223T092355_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T092420_20221223T092653_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T092817_20221223T092824_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T093406_20221223T093422_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T100028_20221223T100138_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T101359_20221223T101455_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T113847_20221223T114119_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T115252_20221223T115355_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T122306_20221223T122353_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
		falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T122842_20221223T123011_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T131743_20221223T132110_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T133154_20221223T133336_E001	Snow depth model	falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T133820_20221223T134321_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T135849_20221223T135930_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T140524_20221223T140645_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T140734_20221223T140835_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T141045_20221223T141115_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T141133_20221223T141149_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T142132_20221223T142205_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T145730_20221223T150044_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T151037_20221223T151350_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T153929_20221223T154040_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T154103_20221223T154132_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T154255_20221223T154404_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
		falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T154404_20221223T154849_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T154859_20221223T155136_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T155227_20221223T160224_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T163622_20221223T163800_E001	Snow depth model	falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T164402_20221223T164408_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T164929_20221223T165302_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T171749_20221223T171918_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T172642_20221223T172718_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T174042_20221223T174047_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T174048_20221223T174115_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T174119_20221223T174215_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T174219_20221223T174341_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T174449_20221223T174541_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T175338_20221223T175747_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
		falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_2_20221223T175747_20221223T175818_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T180853_20221223T180956_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T181540_20221223T181608_E001	Snow depth model	falls outside of the extent of the current snow depth model There is an error with the Snow Depth value, where one or more records
CS_OFFL_SIR_SAR_220221223T182302_20221223T182307_E001	Snow depth model	falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T182314_20221223T182320_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model

CS_OFFL_SIR_SAR_220221223T182713_20221223T183412_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T184635_20221223T184820_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T185705_20221223T185831_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T192229_20221223T192237_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T192239_20221223T192246_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T193739_20221223T193940_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T194654_20221223T194813_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T195436_20221223T195523_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T200202_20221223T200206_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T200214_20221223T200220_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T201338_20221223T201621_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T203618_20221223T203747_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T204224_20221223T204445_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T204521_20221223T204554_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T210218_20221223T210233_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T210235_20221223T210245_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T211042_20221223T211126_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T211128_20221223T211131_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T211133_20221223T211812_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T213359_20221223T213440_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T214636_20221223T214803_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T221450_20221223T221525_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T231310_20221223T231413_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T232532_20221223T232741_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SAR_220221223T235414_20221223T235609_E001	Snow depth model	There is an error with the Snow Depth value, where one or more records falls outside of the extent of the current snow depth model
CS_OFFL_SIR_SIN_220221223T033041_20221223T033345_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T050430_20221223T050728_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T050944_20221223T051503_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T064421_20221223T064656_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T132111_20221223T132455_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T150045_20221223T150401_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T182530_20221223T182712_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T200355_20221223T201008_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records
CS_OFFL_SIR_SIN_220221223T214316_20221223T214635_E001	Mean Sea Surface model	There is an error with the Mean Sea Surface for one or more records

## 5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag 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.

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.

**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.

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.

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.

Number of products with errors:

247

Product	Test Failed	Description
CS_OFFL_SIR_LRM_220221223T001857_20221223T005149_E001	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_220221223T011442_20221223T012114_E001	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_220221223T012402_20221223T013238_E001	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_220221223T013752_20221223T014223_E001	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_220221223T015820_20221223T023103_E001		There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one
CS_OFFL_SIR_LRM_220221223T025200_20221223T025308_E001	(Retracker 2), Surface model unavailable 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_220221223T030214_20221223T032042_E001	(Retracker 2) 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_220221223T033705_20221223T041108_E001	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_220221223T043319_20221223T043340_E001	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_220221223T043516_20221223T043958_E001	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_220221223T044039_20221223T050003_E001	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_220221223T051648_20221223T054921_E001	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_220221223T060537_20221223T062423_E001	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_220221223T062458_20221223T063807_E001	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_220221223T065558_20221223T071116_E001	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_220221223T071318_20221223T072239_E001	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_220221223T074457_20221223T074754_E001	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_220221223T074830_20221223T080200_E001	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_220221223T090550_20221223T090712_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220221223T090919_20221223T091249_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220221223T092824_20221223T093406_E001	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_220221223T093422_20221223T093528_E001	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_220221223T093651_20221223T100028_E001	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_220221223T101455_20221223T104010_E001	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_220221223T111123_20221223T111239_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220221223T111252_20221223T113846_E001	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_220221223T115356_20221223T121919_E001	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_220221223T123011_20221223T123138_E001	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_220221223T124609_20221223T131743_E001	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_220221223T135300_20221223T135848_E001	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_220221223T142356_20221223T145729_E001	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_220221223T151350_20221223T153040_E001	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_220221223T153350_20221223T153929_E001	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_220221223T160224_20221223T163116_E001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220221223T163127_20221223T163621_E001	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_220221223T165302_20221223T171748_E001	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_220221223T171919_20221223T172623_E001	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_220221223T172623_20221223T172642_E001	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_220221223T175818_20221223T175952_E001	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_220221223T175956_20221223T180035_E001	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_220221223T180038_20221223T180852_E001	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_220221223T183412_20221223T184635_E001	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_220221223T184820_20221223T185704_E001	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_220221223T185831_20221223T190534_E001	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_220221223T192808_20221223T193714_E001	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_220221223T193716_20221223T193738_E001	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_220221223T193941_20221223T194654_E001	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_220221223T202034_20221223T202055_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220221223T202130_20221223T202201_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220221223T202948_20221223T203222_E001	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_220221223T203224_20221223T203618_E001	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_220221223T203747_20221223T204101_E001	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_220221223T211813_20221223T213359_E001	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_220221223T214803_20221223T221046_E001	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_220221223T221056_20221223T221449_E001	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_220221223T223641_20221223T223940_E001	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_220221223T223956_20221223T224344_E001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220221223T224738_20221223T231310_E001	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_220221223T232741_20221223T235413_E001	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_220221223T235609_20221223T235642_E001	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_220221223T235732_20221223T235851_E001	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_SAR_220221223T000335_20221223T000426_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T001614_20221223T001857_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T005541_20221223T010316_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T010346_20221223T010813_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T011358_20221223T011435_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T013238_20221223T013752_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T014223_20221223T014438_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T015503_20221223T015820_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T023104_20221223T023127_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T023438_20221223T024132_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T024132_20221223T024434_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records

CS_OFFL_SIR_SAR_220221223T024644_20221223T025033_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T025308_20221223T025629_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T032043_20221223T032404_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T033345_20221223T033705_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T041108_20221223T041128_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T041315_20221223T042032_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T042032_20221223T042322_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T042336_20221223T042442_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T042501_20221223T043229_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T043340_20221223T043515_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T050004_20221223T050430_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T051504_20221223T051648_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T054922_20221223T055022_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T055314_20221223T055408_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T055505_20221223T055927_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T055927_20221223T060040_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T060457_20221223T060536_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T062423_20221223T062458_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T063808_20221223T064421_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T065530_20221223T065558_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T071116_20221223T071318_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T073302_20221223T073756_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T073756_20221223T073934_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T074754_20221223T074830_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T081621_20221223T081719_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T083443_20221223T083533_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T084947_20221223T085740_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T091249_20221223T091857_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T092120_20221223T092146_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T092331_20221223T092355_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T092420_20221223T092653_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T093406_20221223T093422_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T100028_20221223T100138_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T101359_20221223T101455_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
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CS_OFFL_SIR_SAR_220221223T104954_20221223T104956_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T104956_20221223T105239_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T105257_20221223T105355_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T105422_20221223T105839_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T113847_20221223T114119_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T115252_20221223T115355_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T122842_20221223T123011_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T123139_20221223T123924_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T123930_20221223T123958_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T131743_20221223T132110_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T133154_20221223T133336_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T133820_20221223T134321_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T135849_20221223T135930_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T140524_20221223T140645_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T140734_20221223T140835_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T141045_20221223T141115_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T141133_20221223T141149_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T141218_20221223T142006_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T145730_20221223T150044_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T151037_20221223T151350_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T153929_20221223T154040_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T154255_20221223T154404_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T154404_20221223T154849_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T154859_20221223T155136_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T155227_20221223T160224_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T163622_20221223T163800_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T164929_20221223T165302_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T171749_20221223T171918_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T172642_20221223T172718_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T173154_20221223T173920_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T174119_20221223T174215_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T174219_20221223T174341_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T174449_20221223T174541_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T175338_20221223T175747_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records

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CS_OFFL_SIR_SAR_220221223T175747_20221223T175818_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T180853_20221223T180956_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T181540_20221223T181608_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T182713_20221223T183412_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T184635_20221223T184820_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T185705_20221223T185831_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T191108_20221223T191628_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T191654_20221223T191813_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T193739_20221223T193940_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T194654_20221223T194813_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T195436_20221223T195523_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T201338_20221223T201621_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T203618_20221223T203747_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T204224_20221223T204445_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T204521_20221223T204554_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T204958_20221223T205659_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T211133_20221223T211812_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T213359_20221223T213440_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T214636_20221223T214803_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T222820_20221223T223344_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T223357_20221223T223641_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T231310_20221223T231413_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T232532_20221223T232741_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SAR_220221223T235414_20221223T235609_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T000426_20221223T000503_E001	Backscatter Error (Retracker 3) SARIN X.	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T000503_20221223T000602_E001		An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T001447_20221223T001614_E001	Backscatter Error (Retracker 3) SARIN X.	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T005149_20221223T005541_E001		There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T010316_20221223T010345_E001	Backscatter Error (Retracker 2)	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T014438_20221223T014602_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X-	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T015148_20221223T015213_E001		An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T015348_20221223T015502_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X- track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T023128_20221223T023437_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T024532_20221223T024625_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records

CS_OFFL_SIR_SIN_220221223T032404_20221223T032530_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T033041_20221223T033345_E001	Backscatter Error (Retracker 2)	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T050430_20221223T050728_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T050944_20221223T051503_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T055409_20221223T055504_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T060040_20221223T060457_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T064421_20221223T064656_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T064854_20221223T065025_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T065356_20221223T065530_E001	track Angle Error (Retracker 3), SARIN X	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T072240_20221223T072609_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T073935_20221223T074048_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T074228_20221223T074457_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T081719_20221223T081820_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T081924_20221223T082519_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T083258_20221223T083442_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T085945_20221223T090149_E001	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_220221223T090231_20221223T090248_E001	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_220221223T091858_20221223T092119_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T092146_20221223T092331_E001	backscatter Error (Retracker 3), SARIN X	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T092356_20221223T092419_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T092654_20221223T092816_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T093528_20221223T093651_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T100138_20221223T100330_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T101157_20221223T101358_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T104010_20221223T104342_E001	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_220221223T105239_20221223T105257_E001	unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T105356_20221223T105422_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T105840_20221223T110316_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T114119_20221223T114256_E001	Backscatter Error (Retracker 2)	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T114419_20221223T114543_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T115000_20221223T115251_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220221223T123925_20221223T123929_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T123958_20221223T124609_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T132111_20221223T132455_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T133040_20221223T133154_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T135931_20221223T140136_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T140645_20221223T140733_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T140850_20221223T140939_E001	track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T141115_20221223T141126_E001	track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T141149_20221223T141218_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T142006_20221223T142131_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T142211_20221223T142355_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T150045_20221223T150401_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T150913_20221223T151036_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T153040_20221223T153350_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T155136_20221223T155227_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T163800_20221223T164158_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T164823_20221223T164929_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T172718_20221223T172924_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T173037_20221223T173154_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T181608_20221223T181740_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T182530_20221223T182712_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T190534_20221223T190924_E001	track Angle Error (Retracker 3), SARIN X	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T190934_20221223T191107_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T191628_20221223T191654_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T192402_20221223T192807_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T195523_20221223T195707_E001	track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T200355_20221223T201008_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T202201_20221223T202803_E001	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_220221223T204446_20221223T204521_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T204554_20221223T204942_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records

CS_OFFL_SIR_SIN_220221223T204942_20221223T204957_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T210750_20221223T210937_E001	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_220221223T213440_20221223T213648_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T214146_20221223T214152_E001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T214316_20221223T214635_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T222431_20221223T222820_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error, Surface model unavailable	There is a backscatter error for Retracker 2 and 3, an ambiguous angle was detected for SARIn mode, and no DEM or Slope Model was used for the location for one or more records
CS_OFFL_SIR_SIN_220221223T223345_20221223T223357_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records
CS_OFFL_SIR_SIN_220221223T224344_20221223T224508_E001	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_220221223T224536_20221223T224738_E001	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_220221223T231413_20221223T231632_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T232417_20221223T232531_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), SARIn X track Angle Error	There is a backscatter error for Retracker 2 and 3 and an ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220221223T235852_20221224T000513_E001	Backscatter Error (Retracker 2), Backscatter Error (Retracker 3)	There is a backscatter error for Retracker 2 and 3 for one or more records