

SENTINEL-1

Quality Disclaimer

Failure on Tile amplifier #5 of the receiving antenna bet	tween 2015-05-26 and 2015-05-27
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Description:

Beschiption.					
Failure on Tile amplifier	#5 of the receiving a	ntenna from 26/05/2015 19	:06 UT to 27/05/2015 06:07 UT.		
A similar failure occurre	d previously (refer to	Quality Disclaimer #2 for in	stance)		
Degradation types: DEGRADED_PRODUCT DEGRADED_RADION DEGRADED_ORBIT_ COMPLETE_PRODUCT OTHER	METRIC_CALIBRATION CONTROL	N ☐ DEGRADED_PL ☐ DEGRADED_PE	☐ DEGRADED_PRODUCT_GEOLOCATION ☐ DEGRADED_PLATFORM_POINTING ☑ DEGRADED_PERFORMANCE_INSTRUMENT_ANOMALY ☐ SLICE_PRODUCT_NON_CONCATENABLE		
Degradation percentag	ge ¹ :				
0%					
Impacted products					
Impacted products: Platform: Acquisition mode: Product type: Resolution class: Polarization:	S-1A S-1 EW SIW RAW SL MR SH (Single pol. H DH (Double pol.	SM	CN /A /) V)		
Processing facility:	⋈ HH⋈ PAC1 / UPA⋈ CGS1 / Matera	□ PAC2 / DPA			
IPF version: all					
Instrument Configura ADF files:	ation ID (RDB): 3				
AUX_II	VS N/A				
AUX_C					
AUX_P	P1 N/A				
AUX_P	P2 N/A				
AUX_S	CS N/A				
Beginning of the issu	e:				
Start acquisition	n date: 2015-05-26 21 n date: 2015-05-26 22				
End of the issue:					
not yet o	defined				
•	date: 2015-05-27 05:5 date: 2015-05-27 11:3				

¹ Percentage of degradation of the data in the product (100% means that the product should be masked in the product catalogue)



Cause:

Failure on Tile Amplifier #5: the consequence is all the TRMs sharing the same Tile Amplifier are failing in both Rx H and V polarisations.

Status:

Slight degradation of the radiometric characteristics products due to slight change of antenna patterns. On previous similar issues, the worse azimuth ambiguity ratios due to higher azimuth sidelobes of 0.3 to 4.4 dB depending on the acquisition mode & sub-swath and a reduction in the NESZ due to loss of power (by approx 0.7) Refer to detailed technical description provided with Quality Disclaimer #2

References:

MPC ref: MPCS-894PDGS ref: N/AARTS ref: N/A