

Title:

Failure on Tile amplifier #5 of the receiving antenna between 2015-04-18 and 2015-04-24.

Description:

Failure on Tile amplifier #5 of the receiving antenna from 18/04/2015 17:40:21 UTC to 24/04/2015 17:48:08 UTC.

A similar failure occurred previously (refer to Quality Disclaimer #2 for instance)

Degradation types:

- | | |
|---|---|
| <input type="checkbox"/> DEGRADED_PRODUCT_RADIOMETRY | <input type="checkbox"/> DEGRADED_PRODUCT_GEOLOCATION |
| <input type="checkbox"/> DEGRADED_RADIOMETRIC_CALIBRATION | <input type="checkbox"/> DEGRADED_PLATFORM_POINTING |
| <input type="checkbox"/> DEGRADED_ORBIT_CONTROL | <input checked="" type="checkbox"/> DEGRADED_PERFORMANCE_INSTRUMENT_ANOMALY |
| <input type="checkbox"/> COMPLETE_PRODUCT_DEGRADATION | <input type="checkbox"/> SLICE_PRODUCT_NON_CONCATENABLE |
| <input type="checkbox"/> OTHER | |

Degradation percentage¹:

0

Impacted products:

- | | | | | | |
|-----------------------------|--|--|--|---|--|
| Platform: | <input checked="" type="checkbox"/> S-1A | <input type="checkbox"/> S-1B | | | |
| Acquisition mode: | <input checked="" type="checkbox"/> EW | <input checked="" type="checkbox"/> IW | <input checked="" type="checkbox"/> SM | <input checked="" type="checkbox"/> WV | <input checked="" type="checkbox"/> RF |
| Product type: | <input checked="" type="checkbox"/> RAW | <input checked="" type="checkbox"/> SLC | <input checked="" type="checkbox"/> GRD | <input type="checkbox"/> OCN | |
| Resolution class: | <input checked="" type="checkbox"/> MR | <input checked="" type="checkbox"/> HR | <input checked="" type="checkbox"/> FR | <input type="checkbox"/> N/A | |
| Polarization: | <input checked="" type="checkbox"/> SH (Single pol. H) | <input checked="" type="checkbox"/> SV (Single pol. V) | <input checked="" type="checkbox"/> DV (Double pol. V) | | |
| | <input checked="" type="checkbox"/> DH (Double pol. H) | <input checked="" type="checkbox"/> VV | <input checked="" type="checkbox"/> VH | | |
| | <input checked="" type="checkbox"/> HH | <input checked="" type="checkbox"/> HV | | | |
| Processing facility: | <input checked="" type="checkbox"/> PAC1 / UPA | <input checked="" type="checkbox"/> PAC2 / DPA | <input checked="" type="checkbox"/> CGS2 / Svalbard | <input checked="" type="checkbox"/> CGS3 / Maspalomas | |
| | <input checked="" type="checkbox"/> CGS1 / Matera | | | | |

IPF version: all

Instrument Configuration ID (RDB): 3

ADF files:

AUX_INS	N/A
AUX_CAL	N/A
AUX_PP1	N/A
AUX_PP2	N/A
AUX_SCS	N/A

Beginning of the issue:

Start acquisition date: 2015-04-18 17:39:57 UTC
 Start generation date: 2015-04-18 19:21:35 UTC
 Orbit: 5541
 Datatake (hex): 00715B

End of the issue:

not yet defined available

End acquisition date: 2015-04-24 17:48:08 UTC
 End generation date: 2015-04-24 20:18:43 UTC
 Orbit: 5629
 Datatake (hex): 007362

Cause:

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

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-822
- PDGS ref: N/A
- ARTS ref: N/A