

AMSR-E Instrument Failure

1.1 Instrument Data Loss Periods

This document lists the major instrument data loss periods. However, it is not a comprehensive list of all missing files. Some small, undocumented data gaps may exist throughout the data archive.

1.2 Notice Regarding AMSR-E Instrument Failure

As of 06:58 UTC on 04 October 2011, the AMSR-E instrument on board the Aqua satellite stopped producing data due to a problem with the rotation of its antenna.

Time Period (yyyy-mm-dd hh:mm)	Data Loss Cause
2002-06-27 15:19 - 2002-06-28 23:02	Instrument in sleep mode.
2002-07-29 20:15 - 2002-08-08 00:24	Instrument in sleep mode.
2002-09-12 13:08 - 2002-09-20 01:41	Instrument in sleep mode.
2002-11-19 00:12 - 2002-11-19 13:32	Instrument stopped X-band dump.
2003-10-29 15:58 - 2003-11-06 14:20	Instrument affected by solar flare.
2003-11-13 05:23 - 2003-11-14 06:08	Instrument in sleep mode.
2003-11-18 15:33 - 2003-11-19 19:03	Instrument in sleep mode for Leonid meteor shower.
2004-11-05 15:47 - 2004-11-05 16:39	89GHz A-Horn turned off for repair.
2004-11-18 20:09 - 2004-11-20 14:22	Instrument in sleep mode for Leonid meteor shower.
2005-11-17 00:33 - 2005-11-18 02:54	Instrument in sleep mode for Leonid meteor shower.
2005-11-20 11:46 - 2005-11-21 14:08	Instrument in sleep mode for Leonid meteor shower.
2006-06-07 04:29 - 2006-06-07 07:46	Norway receiving station outage.
2006-07-05 00:47 - 2006-07-05 03:15	Norway receiving station outage.

Time Period (yyyy-mm-dd hh:mm)	Data Loss Cause
2006-11-17 04:12 - 2006-11-19 17:10	Instrument in sleep mode for Leonid meteor shower.
2007-06-26 13:35 - 2007-06-26 16:52	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-09-03 22:08 - 2007-09-03 23:46	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-11-27 01:00 - 2007-11-29 03:15	Error flag on instrument power source.
2007-11-29 04:05 - 2007-11-29 06:33	Error flag on instrument power source.
2007-12-02 05:26 - 2007-12-03 02:01	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-03 06:59 - 2007-12-03 08:37	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-03 13:34 - 2007-12-03 15:12	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-04 02:45 - 2007-12-04 04:21	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-04 06:03 - 2007-12-04 07:41	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-05 01:50 - 2007-12-05 03:28	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-05 06:46 - 2007-12-05 08:25	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-05 18:18 - 2007-12-05 19:57	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2007-12-06 14:05 - 2007-12-06 15:43	Issue with Solid State Recorder capture of Ground-Based Attitude Determination data.
2009-07-02 04:29 - 2009-07-02 06:07	Instrument maneuver: MODIS Lunar Calibration #65.
2010-02-02 07:51 - 2010-02-05 08:22	Anomaly with the instrument Antenna Drive Electronics control unit.