USGS Geomag Data Users:

This is a notification of an impending modification to the Fresno Geomagnetic Observatory (FRN) data.

Geomag Observatory: FRN

Start Date/Time: 02/13/2018 - 16:00:00 UTC

This modification is: planned

NOTES: The fluxgate sensor at the FRN observatory, near Fresno, CA, will be replaced. This requires a break in real time data continuity, and may result in a brief interval of corrupted raw data in the archive (this will be flagged and removed in subsequent definitive processing, as per usual).

More relevant to real-time data users is that certain derived products cannot be reliably generated until the new instrument has stabilized magnetically, and several absolute calibration measurements have been performed over the course of a few days to weeks following this operation.

The table below details the effects and timelines of this modification on various geomagnetic data and geomagnetic data products.

Product	Effect	Estimated Start Date/Time:	Estimated End Date/Time:	Notes:
Raw	Offsets/Drift/	2/13/2018	2/14/2018	allow ample time for
	Disturbance	16:00 UTC	01:00 UTC	hardware swap-out
Quasi	Possible	2/13/2018	2/15/2018	reliable calibration
Definitive	Outage	16:00 UTC	01:00 UTC	required
Definitive	Possible	2/13/2018	2/15/2018	reliable calibration
	Outage	16:00 UTC	01:00 UTC	required
Adjusted	Outage	2/13/2018	2/20/2018	multiple stable
		16:00 UTC	00:00 UTC	calibrations required
XYZ	Offsets	2/13/2018	2/20/2018	multiple stable
		16:00 UTC	00:00 UTC	calibrations required
SQ	Offsets/	2/13/2018	3/15/2018	~30 Day filter within
	Drift	16:00 UTC	00:00 UTC	algorithm
SV	Offsets/	2/13/2018	3/15/2018	~30 Day filter within
	Drift	16:00 UTC	00:00 UTC	algorithm
DIST	Offsets/	2/13/2018	3/15/2018	~30 Day filter within
	Drift	16:00 UTC	00:00 UTC	algorithm
DST	NA			Not a DST Station

Additional notification will be sent once real-time data products have been fully restored to normal operation. Please direct any questions or concerns to geomag-data@geohazards.usgs.gov.