Temperature Analysis of RM3100 Magnetometer run at JJ 07-07-2020 24 hours

The first plot is temperature at the sensor board in degrees C during the run. The next three plots are X, Y and Z axis value during the same period, as plotted with Open Office Calc using the unedited runMag data file: GJT-20200707-runmag.

Note that the X axis data mean follows the inverse of the temperature curve while the Z axis data tends to follow the mean values of the temperature curve. The Y axis data appears to be closer to the inverse shape of the temperature curve. All of the other GTJ series show the same correlation.

The magnitude shift over the temperature range is ~150-200nT and does not appear to be proportional to the magnitude of the specific measurement.

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