Attitude Solutions for 21.132/133

This document describes how to interpret the data files

Files:

```
21132_pointing.txt
21133_pointing.txt
```

Format:

ASCII text files

First 4 lines are header lines. Data begins on line 5. Space delimited columns are arranged as:

Col 1 – Flight time in seconds
Col 2 – X azimuth
Col 3 – X elevation
Col 4 – Z azimuth
Col 5 – Z elevation

Azimuth and elevation are in units of degrees. Azimuth is measured clockwise from North. Elevation is measured with respect to the horizontal.
For flight time in seconds, T-0 used were as follows:
    21.132 T-0 11:43:53.0 U.T.
    21.133 T-0 08:00:45.0 U.T.

Coordinate System:

X Axis – Along boom 1 pointing toward probe 1
Z Axis – Along symmetry axis, pointing upward
Y Axis – Derived by taking z × x, where z and x are the unit vectors.

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