MGDS:Nav Data Format

The MGDS:Nav format comprises a header record followed by three tab-separated columns. The header line starts with #.

The data records are formatted as shown in the table.

Column	Content	Format	Example
1	Date/Time	YYYY-MM-DD HH:MM:SS	2005-10-11 22:53:13
2	Longitude	Decimal degrees (-180/180)	-111.236208
3	Latitude	Decimal degrees (-90/90)	12.706190

Note that time is in UTC and that the date and time values are separated by one white space.

If segments of the navigation file need to be distinguished, precede each segment with the segment-separator mark (>) and a segment label.

Here is an example of a properly formatted MGDS:Nav navigation file:

```
# date time    longitude      latitude
>     segment 1
2005-10-11 22:53:13    -111.236208   12.706190
2005-10-11 22:53:44    -111.236215   12.706185
2005-10-11 22:54:13    -111.236213   12.706190
2005-10-11 22:54:43    -111.236210   12.706198
>    segment 2
2005-10-11 23:48:46    -110.969168   13.358557
2005-10-11 23:49:16    -110.967773   13.357750
2005-10-11 23:49:46    -110.966331   13.356952
>    segment 3
2005-10-12 04:22:06    -109.379148   14.618018
2005-10-12 04:22:37    -109.379855   14.619291
2005-10-12 04:23:06    -109.380572   14.620561
2005-10-12 04:23:36    -109.381277   14.621833
```