

NOTICE TO UNAVCO GPS DATA PRODUCT USERS: FILE FORMAT CHANGE TO *.CSV TIME SERIES FILES

On 28 April 2015 UNAVCO will implement a file format change to GPS station position files in *.CSV format (e.g., P123.pbo.nam08.csv, P123.pbo.igs08.csv).

The primary change is that the N/E/U daily position offsets will now begin at "0.00 mm" for the first epoch in the file. Currently, the N/E/U offsets for the first epoch are the same values reported in the source *.POS file. The actual motion of the station through time relative the reference coordinate will be the same, so the position measurements themselves will be the same as they are now, and will be consistent with previously reported measurements. The only difference is that the first position offset will be 0.00 mm. This format change is being implemented based on user feedback, as having zero values for the first epoch will make the position offsets though time easier for some users and applications. The header will be changed to reflect the new format. Examples of a file in the current format and upcoming format are provided below:

1. Example of current format (e.g. P123.pbo.nam08.csv)

```
PBO Station Position Time Series. Reference Frame : NAM08
Format Version,1.1.0
4-character ID,P123
Station name,TresPiedraNM2006
Begin Date, 2006-03-01
End Date, 2015-04-20
Release Date, 2015-04-21
Reference position, 36.6351717548 North Latitude, -105.9108467992 East
Longitude, 2411.20262 meters elevation,
Date, North (mm), East (mm), Vertical (mm), North Std. Deviation (mm), East
Std. Deviation (mm), Vertical Std. Deviation (mm), Quality,
2006-03-01,-1.87, 1.40, 5.71, 1.64, 1.49, 6.00, repro,
2006-03-02,-1.73, 1.80, 3.31, 1.56, 1.42, 5.66, repro,
2006-03-03,-3.34, 2.31, 3.74, 1.43, 1.29, 5.21, repro,
...
```

2. Example of new format (e.g. P123.pbo.nam08.csv)

```
PBO Station Position Time Series.
Format Version, 1.2.0
Reference Frame, NAM08
4-character ID, P123
Station name, TresPiedraNM2006
Begin Date, 2006-03-01
End Date, 2015-04-19
Release Date, 2015-04-20
Source file, P123.pbo.nam08.pos
Offset from source file, 1.87 mm North, -1.40 mm East, -5.71 mm Vertical
Reference position, 36.6351717548 North Latitude, -105.9108467992 East
Longitude, 2411.20262 meters elevation
Date, North (mm), East (mm), Vertical (mm), North Std. Deviation (mm), East
Std. Deviation (mm), Vertical Std. Deviation (mm), Quality,
2006-03-01,0.00, 0.00, 0.00, 1.64, 1.49, 6.00, repro,
2006-03-02,0.14, 0.40, -2.40, 1.56, 1.42, 5.66, repro,
2006-03-03,-1.47, 0.91, -1.97, 1.43, 1.29, 5.21, repro,
...
```

Please contact us if you have any questions or comments regarding these format changes:
data@unavco.org.