

\*\*\*ITRF 00\*\*\*

MODOT BUTLER (MOBT), MISSOURI

Retrieved from NGS DataBase on 04/08/10 at 13:35:58.

Antenna Reference Point(ARP): MODOT BUTLER CORS ARP

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PID = DL6888

## ITRF00 POSITION (EPOCH 1997.0)

Computed in Apr. 2010 using 30 days of data.

X =	-384163.226 m	latitude	=	38 15 26.96849 N
Y =	-5000226.726 m	longitude	=	094 23 36.08161 W
Z =	3928068.689 m	ellipsoid height	=	229.338 m

## ITRF00 VELOCITY

Predicted with HTDP\_3.0 Apr. 2010.

VX =	-0.0146 m/yr	northward	=	-0.0039 m/yr
VY =	-0.0008 m/yr	eastward	=	-0.0145 m/yr
VZ =	-0.0035 m/yr	upward	=	-0.0007 m/yr

## NAD\_83 (CORS96) POSITION (EPOCH 2002.0)

Transformed from ITRF00 (epoch 1997.0) position in Apr. 2010.

X =	-384162.682 m	latitude	=	38 15 26.94381 N
Y =	-5000228.112 m	longitude	=	094 23 36.05494 W
Z =	3928068.777 m	ellipsoid height	=	230.445 m

## NAD\_83 (CORS96) VELOCITY

Transformed from ITRF00 velocity in Apr. 2010.

VX =	0.0018 m/yr	northward	=	-0.0001 m/yr
VY =	0.0006 m/yr	eastward	=	0.0017 m/yr
VZ =	-0.0007 m/yr	upward	=	-0.0010 m/yr

L1 Phase Center of the current GPS antenna: MODOT BUTLER CORS L1 PC C

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The CONVERTED FROM ABSOLUTE igs05\_1480.atx antenna

(Antenna Code = TRM57971.00 NONE) was installed on 08/02/09.

The L2 phase center is 0.020 m below the L1 phase center.

PID = DL6889

## ITRF00 POSITION (EPOCH 1997.0)

Computed in Apr. 2010 using 30 days of data.

X =	-384163.231 m	latitude	=	38 15 26.96851 N
Y =	-5000226.793 m	longitude	=	094 23 36.08160 W
Z =	3928068.743 m	ellipsoid height	=	229.423 m

The ITRF00 VELOCITY of the L1 PC is the same as that for the ARP.

## NAD\_83 (CORS96) POSITION (EPOCH 2002.0)

Transformed from ITRF00 (epoch 1997.0) position in Apr. 2010.

X =	-384162.687 m	latitude	=	38 15 26.94383 N
Y =	-5000228.179 m	longitude	=	094 23 36.05493 W
Z =	3928068.831 m	ellipsoid height	=	230.530 m

| The NAD\_83 (CORS96) VELOCITY of the L1 PC is the same as that for the ARP. |

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- \* Latitude, longitude and ellipsoid height are computed from their corresponding cartesian coordinates using dimensions for the GRS 80 ellipsoid: semi-major axis = 6,378,137.0 meters  
flattening = 1/298.257222101...
  
- \* WARNING: Mixing of antenna types can lead to errors of up to 10 cm. in height unless antenna-phase-center variation is properly modeled.
  
- \* For additional information about the interpretation and/or derivation of these positions and velocities, consult <http://www.ngs.noaa.gov/CORS/Coords.html>  
For additional information on the relation of the GPS antenna to other relevant points at the site and on GPS equipment, consult the link <http://www.ngs.noaa.gov/cors/Logfiles.html>