
Subject: different values between Map Coordinate Converter and
envi_convert_projection_coordinates

Posted by [caf.pang](#) on Fri, 11 Mar 2011 21:31:59 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear Folks,

There is tens of meters difference between Map Coordinate Converter
and envi_convert_projection_coordinates when I try to convert from
State Plane system to UTM system. Would you please help me out?

Setting in Map Coordinate Converter:

First Coordinate:

Proj : State Plane (North Carolina)

Datum: North America 1983

Second Coordinate:

Proj : UTM, Zone 16 North

Datum: WGS-84

Code for envi_convert_projection_coordinates

```
iproj = ENVI_PROJ_CREATE(/State_Plane,datum='NAD83', zone=3200)
```

```
oproj = ENVI_PROJ_CREATE(/utm,datum='WGS 84',zone=16)
```

```
ixmap = [568543.280000]
```

```
iymap = [620005.240000]
```

envi_convert_projection_coordinates, ixmap, iymap, iproj, oxmap,
oymap, oproj

Test value: x 568543.2800, y 620005.2400

Map Coordinate Converter out value: x 790506.3042, y 3917483.1830

envi_convert_projection_coordinates out: x 790522.86, y 3917290.2

Thanks,
Yong
