

Sheet A-21—CEUS SSC Project GIS Data Summary
Calais—Deformation of the North American Plate Interior
Using GPS Station Data

CEUS_GPS_NA_ITRF2000_Calais_R0.shp

Data Description: Surface deformation in the North American Plate interior using GPS-based station data. Surface deformation is measured by approximately 300 GPS stations. Deformation is best explained by a rigid rotation model and strain components consistent with that expected from glacial isostatic adjustment (GIA). Residual horizontal velocities show a north-to-south deformation gradient of 1 mm/yr mostly localized between 1,000 and 2,200 km from the GIA center.

Source (Internet URL, CD/DVD-ROM): Calais, E., 2008, personal communication.

Author/Publisher/Year: Calais, E., Han, J.Y., DeMets, C., and Nocquet, J.M., 2006, Deformation of the North American Plate interior from a decade of continuous GPS measurements: *Journal of Geophysical Research*, v. 111, B06402, doi:10.1029/2005JB004253.

Data Summary: Point data were obtained from the author in digital form and converted to ESRI point shapefile. Data are presented in geographic coordinates on the North American Datum of 1983.

Disclaimer or Constraints on Use: No constraints have been identified.

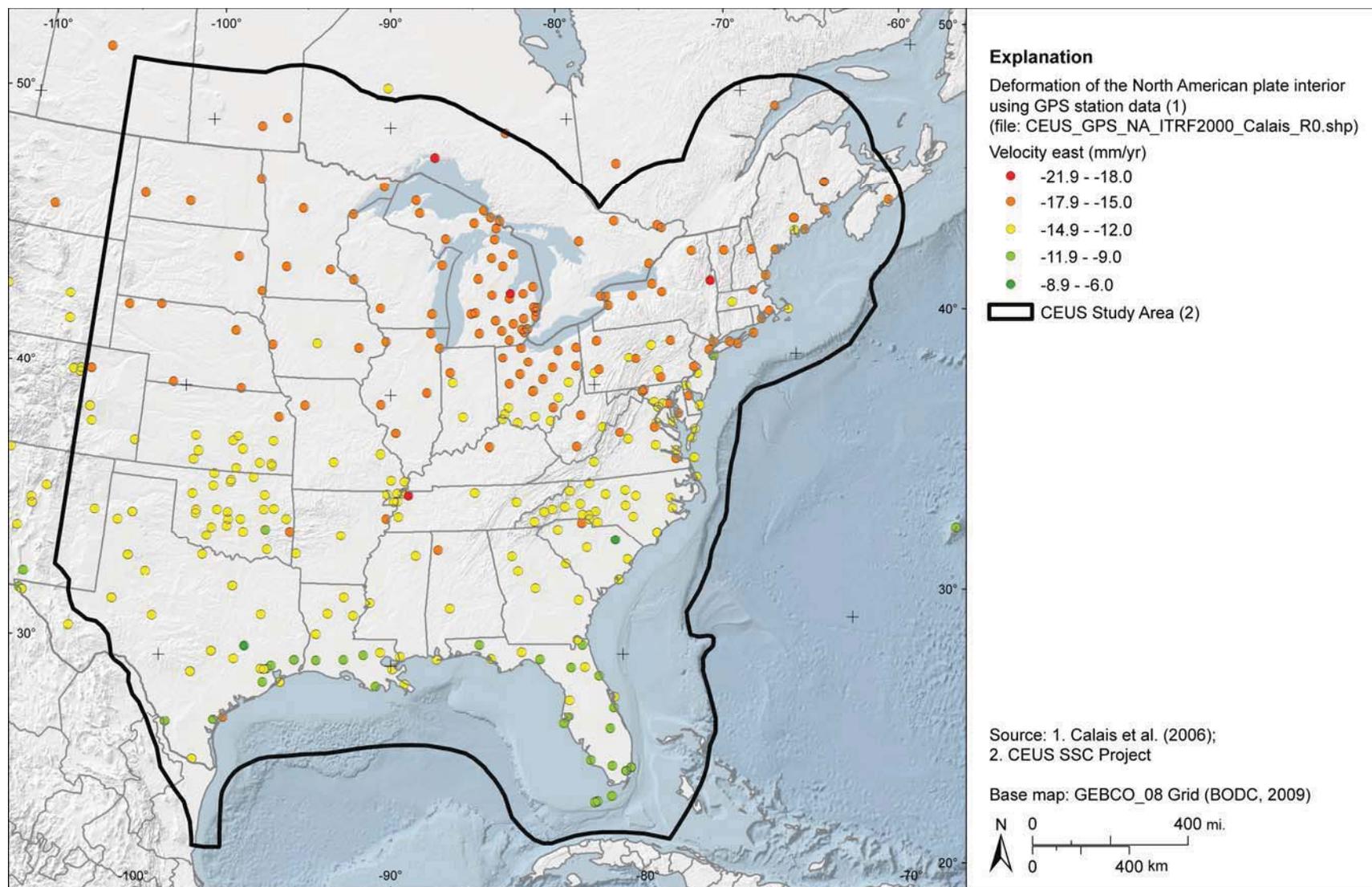


Figure A-62
 Deformation of the North American Plate interior using GPS station data (Calais et al., 2006)