



**OPEN FILE 2609**

**CONVERSION ROUTINES BETWEEN SEVERAL  
GEOGRAPHIC COORDINATE SYSTEMS**

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The GEOSUBS software library contains FORTRAN subroutines which relate the following coordinate systems: Latitude/Longitude, UTM Zone/Northing/Easting, National Topographic based map system (NTS), Canada Lands Coordinates and the Canadian Petroleum Association (CPA) unique well identifiers.

**UTMGEO:** Converts UTM Zone, Northing and Easting to Latitude and Longitude.  
Calls subroutine GRDGEO\*.

**GEOUTM:** Converts Latitude and Longitude to UTM Zone, Northing and Easting.  
Calls subroutine GEOGRD\*.

**GEONTS:** Converts Latitude and Longitude to the designations for the NTS based map system (eg. 83-G-12/a-45-D).

**GEOCOG:** Converts Latitude and Longitude to the Canada Lands Grid area designations.

**WIDGEO:** Converts CPA unique well identifier to Latitude and Longitude.  
The CPA unique well identifier may be one of four types: Dominion Land Survey (Township and Range), NTS based map system, Canada Lands Grid Area Series and Geodetic Survey System.  
Calls subroutine DLSGEO\*, which calls DLSGEO1\*, DLSGEO2\* and DLSGEO3\*.

\* Included in file.

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