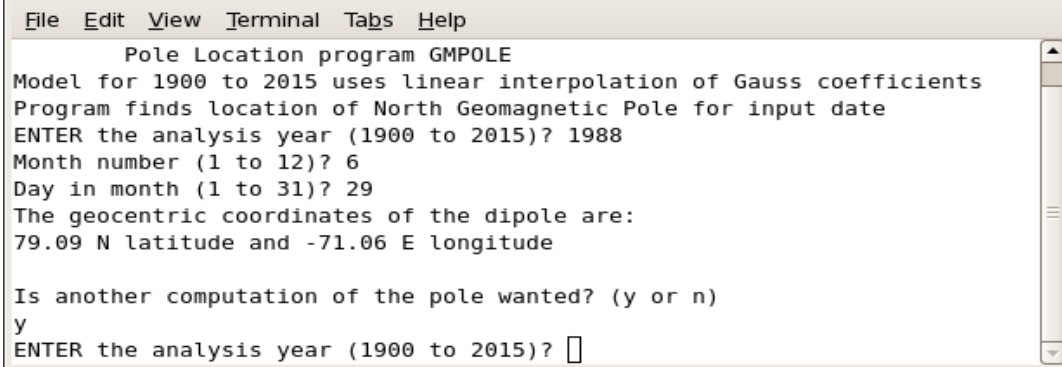# Geomagnetic Pole 1900–2015 (GMPOLE)

The GMPOLE program provides a determination of the Geomagnetic North Pole. The program uses a linear interpolation of the dipole Gauss coefficients from the geomagnetic reference field models (see file ALL-IGRF.TAB below). The fitting allows specification of any date from the first day of January 1900 to the projected values on the last day of December 2015. This program uses a computational method devised by Fraser-Smith (1987) and originally coded by W.H. Campbell. New version coded by Adam Woods. An example screen is shown below:

```
File  Edit  View  Terminal  Tabs  Help
        Pole Location program GMPOLE
Model for 1900 to 2015 uses linear interpolation of Gauss coefficients
Program finds location of North Geomagnetic Pole for input date
ENTER the analysis year (1900 to 2015)? 1988
Month number (1 to 12)? 6
Day in month (1 to 31)? 29
The geocentric coordinates of the dipole are:
79.09 N latitude and -71.06 E longitude

Is another computation of the pole wanted? (y or n)
y
ENTER the analysis year (1900 to 2015)? []
```