Subject: Re: Finding coordinates on the circumference of a circle
Posted by K. Bowman on Tue, 19 Jul 2005 15:11:53 GMT
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In article <1121784988.644724.164530@g44g2000cwa.googlegroups.com>,
guillaume.drolet.1@ulaval.ca wrote:

> Hello group-
>
> I am preparing flight lines over a CO2 flux tower in Canada. I need to
> find the geographic coordinates of several points located on the
> circumference of a circle defined around the tower. The points are
> equally spaced (10 degrees), starting at 0 degrees (north) and
> incrementing clockwise. I want to do this for circles of different
> radii (10 km, 13 km, etc.). I need these coordinates in either WGS84 or
> NAD83.
>
> I found 'compass.pro' and 'findrng.pro', routines that find ranges and
> azimuths for given points (lat/lon) around a center location. I would
> like the opposite: find locations around a central point from arrays of
> azimuths and ranges.
>
> Does anybody know something that could help me?
>
> Cheers!
>
> Guillaume

The LL_ARC_DISTANCE function will return the lat and lon of a point at a given azimuth and range from another point, although it doesn't know anything about the datum. For short distances, and considering the precision of an aircraft flight track, that may be adequate.

Ken Bowman