**CONVERSION FROM GEODETIC COORDINATES TO UTM AND VICE VERSA**

**Name: *deg\_utm v1.0***

Transfer the program to MyLib and set angle mode to “RADIAN“

This program converts geodetic coordinates given as latitude and longitude to UTM coordinates

and vice versa on the basis of **WGS 84**.

To convert from latitude and longitude to UTM-values enter on page 1.3 of the document

***deg\_utm(lat,lon,n)***, where

lat = latitude, lon = longitude, n = index. You may enter lat and lon in the form

“DD.MMSSss”. Then you have to enter “**0**" for n. If you enter lat and lon in decimal degrees

“dd.ddddd” enter “**1**" for n.

*Positive* values mean *northern* latitude and *eastern* longitude.

To change from UTM to latitude and longitude enter on page 1.3

***utm\_deg(zone,ns,ew)***, where

zone =UTM zone, ns = northing, ew = easting.

**EXAMPLE:**

Convert N 47° 35' 38'’ and E 11° 20' 45'’ to UTM coordinates:

***deg\_utm(47.3538,11.2045,0)*** > **Zone 32  9°**  (pict. 1)

**N 5273830.67**

**E 676353.14**

These values are stored in the variables “**zone**”, “**ns**” and “**ew**”

So, to convert these values back to geodetic coordinates ( only in this example for didactic purpose ! ), enter:

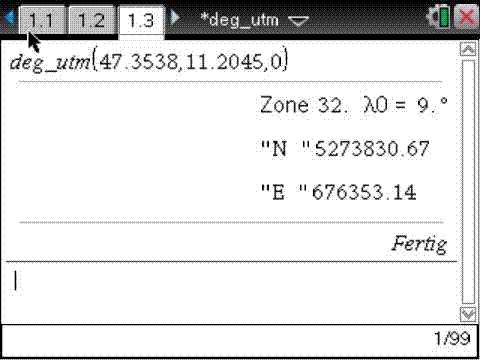
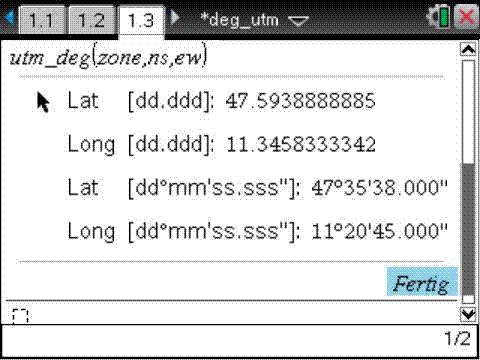
***utm\_deg(zone,ns,ew)*** and get the latitude and longitude in DD.MMSSsss and

decimal degrees, as well**: Lat [dd.ddd] : 47.5938888885** (pict. 2)

**Long [dd.ddd] : 11.3458333342**

**Lat [dd.mmss] : 48° 35' 38.000'’**

**Long [dd.mmss] : 11° 20' 45.000'**

**** pict.1) **** pict. 2)

As bugs cannot ruled out, check the results you get from the program. The author will not be liable for damages arising out of the use or inability to use this program!

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