

# MP2 Supplemental Information

The CSL building can be assumed to be aligned with the true north. This page gives information about the difference between the true north and magnetic north if you wish to use that information in your MP. At this time (and place), the difference between the two norths is not very large.

The difference between the magnetic north and the true north changes by time, place on the earth and altitude.

The most recent data is obtainable from NOAA website:

<https://www.ngdc.noaa.gov/geomag/WMM/DoDWMM.shtml>

Topographical maps needed for altitude estimation can be obtained from the USGS website:

[https://prd-tnm.s3.amazonaws.com/StagedProducts/Maps/USTopo/PDF/IL/IL\\_Urbana\\_20150821\\_TM\\_geo.pdf](https://prd-tnm.s3.amazonaws.com/StagedProducts/Maps/USTopo/PDF/IL/IL_Urbana_20150821_TM_geo.pdf)

Together, using information from these two sources, the **magnetic declination at CSL is -3.22°(West)**

World Magnetic Model 2015 Version 2

File Help

Deg/Min/Sec Degrees UTM

Latitude  
 Decimal Degrees:   North  South

Longitude  
 Decimal Degrees:   East  West

Altitude Above:  
 MSL  Ellipsoid  
 Altitude:   Meters  Feet

Traditional Decimal  
 Date:

Calculate Google Map

	Total Field	Horizontal	North	East	Vertical	Declination	Inclination
Values	52,699 nT	20,029 nT	19,998 nT	-1123 nT	48,744 nT	-3.22°	67.66°
Change/year	-115.8 nT	24.9 nT	24.0 nT	-17.4 nT	-135.5 nT	-0.05°	-0.08°
Uncertainty	152.0 nT	133.0 nT	138.0 nT	89.0 nT	165.0 nT	0.36°	0.22°

	Latitude	Longitude	True-Magnetic	True-Grid	Grid-Magnetic	Grid-True
UTM Related						