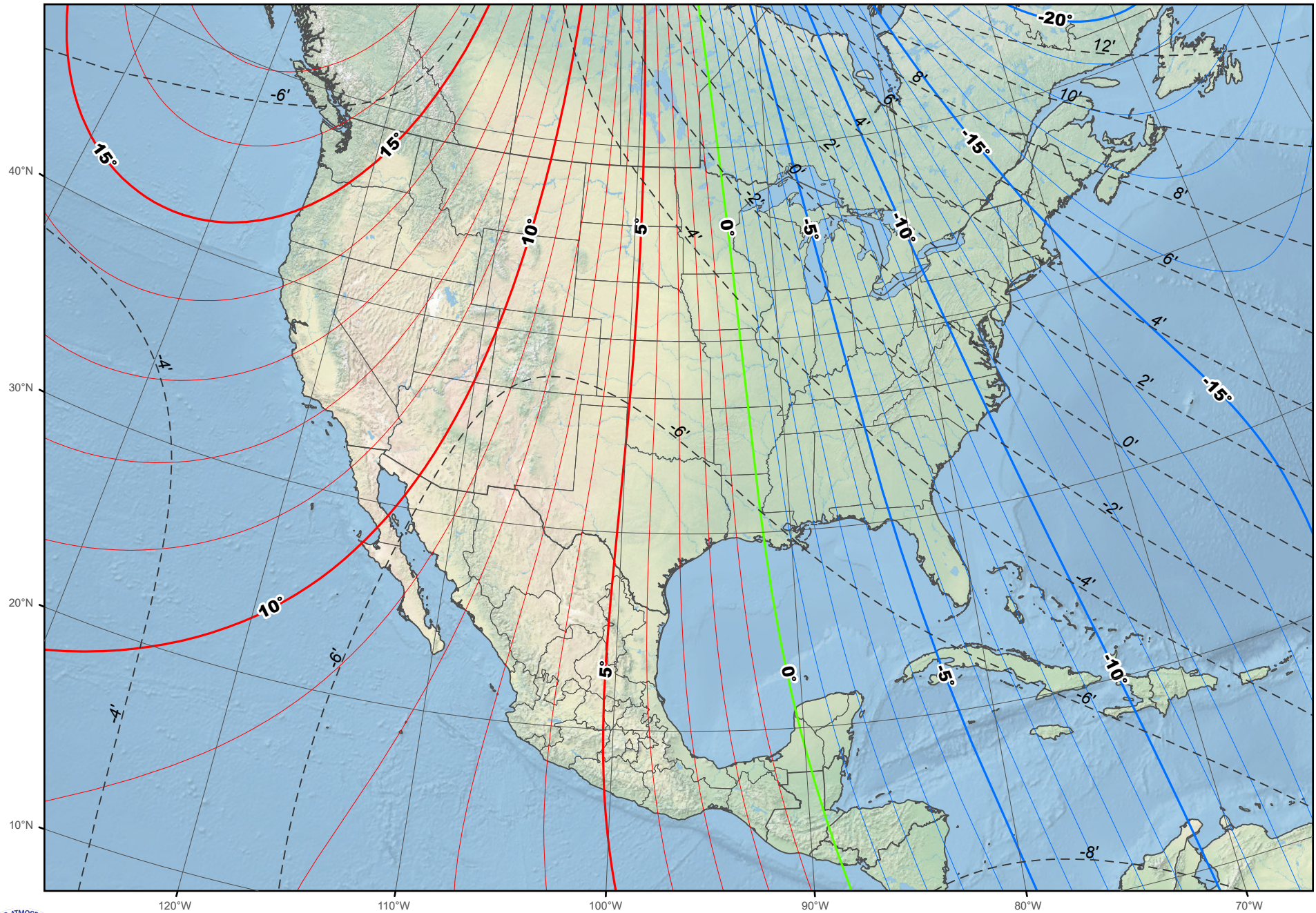


World Magnetic Model - 2020 Magnetic Declination

NOAA National Centers for Environmental Information (NCEI)



The term magnetic declination (also known as magnetic variation) refers to the angle between magnetic north (MN - compass north) and true north (TN - true north) at any given latitude/longitude. The **green** contour line shows the imaginary line along which the declination is zero (MN and TN converge). The magnetic declination increases as one moves east or west from this line. **Red lines** show positive (east) declination contours and **blue lines** show negative (west) declination contours. The degrees of declination required to orient the compass with the map are **added east** of this line and **subtracted west** of this line (e.g. 10° east would indicate that MN lies 10° degrees clockwise from TN). Magnetic declination gradually changes with time and location. The dashed gray lines show the expected annual change in the magnetic declination in arc-minutes per year (there are 60 arc-minutes per degree). The above map was produced from the World Magnetic Model (WMM 2020) for the year 2020.

