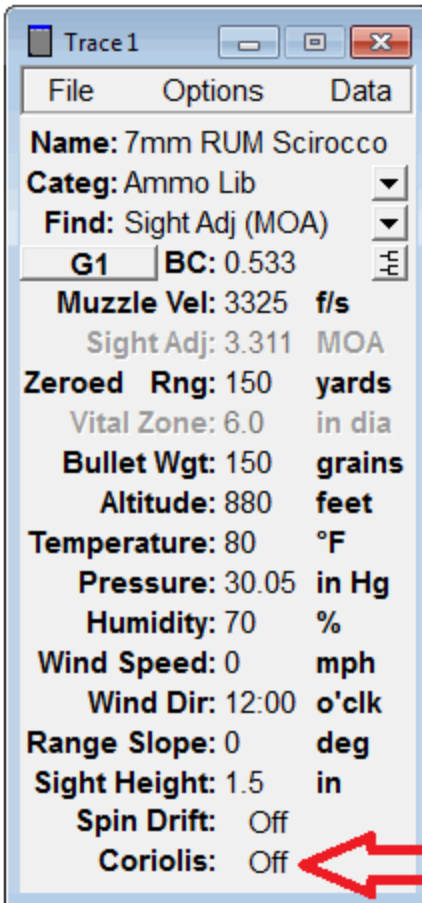# Coriolis Effect

Due to the rotation of the Earth the Coriolis effect causes bullets to deflect to the right in the northern hemisphere and to the left in the southern hemisphere. Also, bullets are deflected vertically and drop less than expected when shooting East and more than expected when shooting West.

The amount of horizontal and vertical deflection depends on the latitude of your shooting location and the direction (azimuth) you are shooting. A detailed explanation can be found in the **Wikipdia Coriolis effect** article on-line. In this program the Coriolis effect is combined with wind drift, bullet drop and path in graphs and charts.

While not generally a factor at ranges under 400 yards, the Coriolis effect can be important to long range shooters wanting to take into account this known factor.

To include the Coriolis effect in the wind drift, drop and path calculations, click the **Off** button just to the right of the **Coriolis** parameter to set it to **On**. This not only turns on the Coriolis effect calculations, but reveals two more parameters that are needed to calculate the Coriolis effect.

You can turn the Coriolis effect calculations off at any time without altering those parameters by clicking the **On** button to set it to **Off**.

Trace 1

File   Options   Data

Name: 7mm RUM Scirocco
Categ: Ammo Lib
Find: Sight Adj (MOA)
G1   **BC:** 0.533
Muzzle Vel: 3325   f/s
Sight Adj: 3.311   MOA
Zeroed Rng: 150   yards
Vital Zone: 6.0   in dia
Bullet Wgt: 150   grains
Altitude: 880   feet
Temperature: 80   °F
Pressure: 30.05   in Hg
Humidity: 70   %
Wind Speed: 0   mph
Wind Dir: 12:00   o'clk
Range Slope: 0   deg
Sight Height: 1.5   in
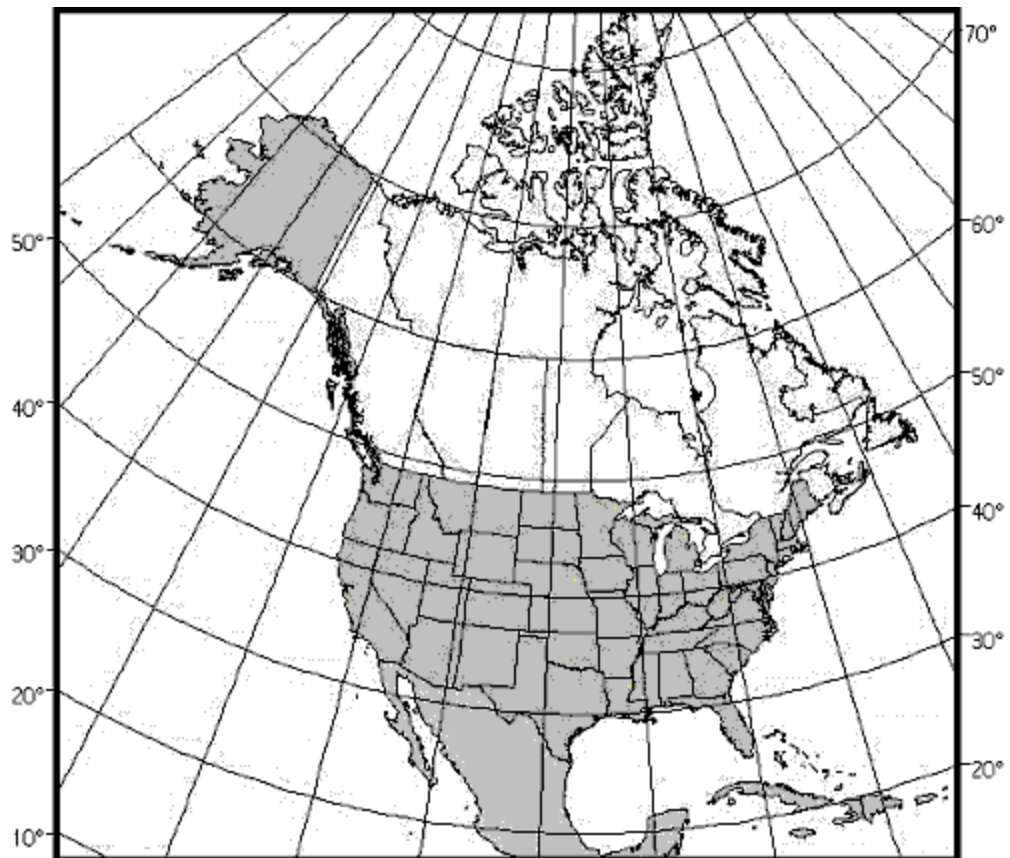**Spin Drift:**   Off
Coriolis: Off

Coriolis: On   ?
Shooting Dir: 90.0   deg
Latitude: 40.0   deg

The **Shooting Dir** parameter is the compass direction from the shooter to the target where true north is 0 degrees, east is 90 degrees, south is 180 degrees, and west is 270 degrees.
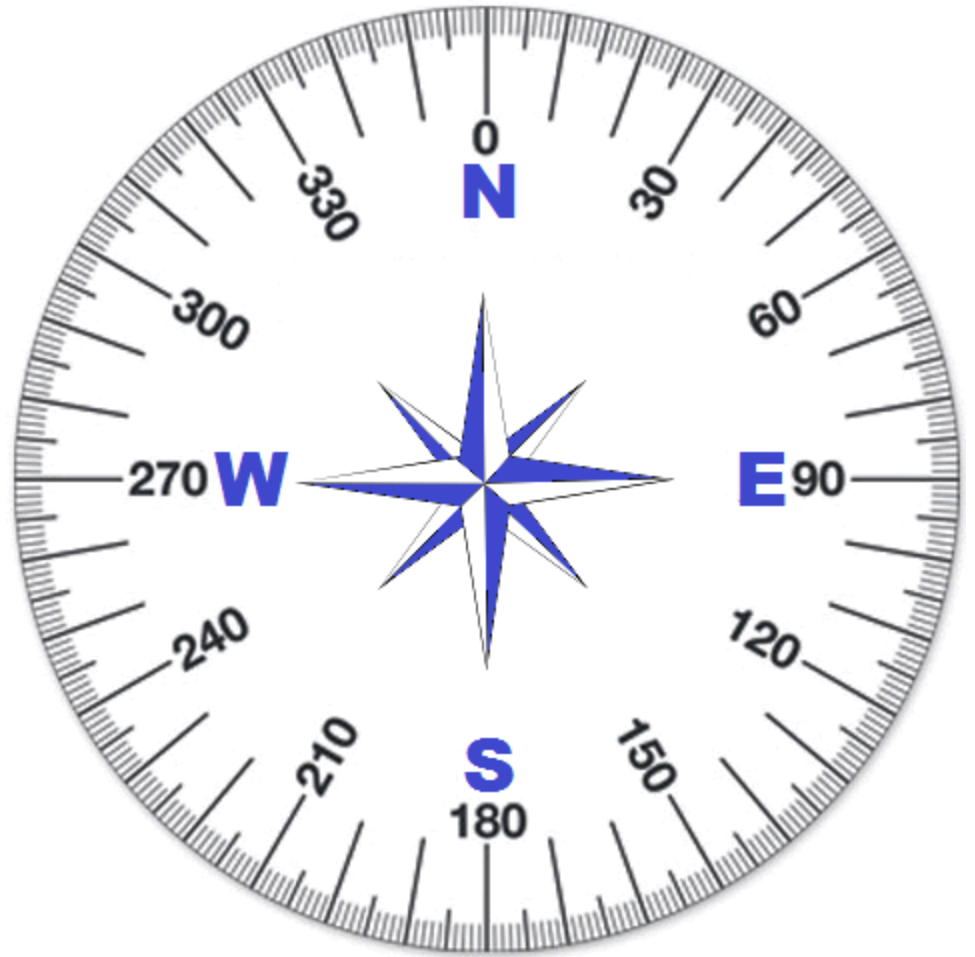
The **Latitude** parameter is the shooting location's latitude in degrees. Latitude for North America is shown in the map to the right. For locations south of the Equator enter a negative number such as -30 for Australia.

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