





## Magnetic Field Inclination

In the Northern Magnetic Hemisphere, N-seeking needle points down into surface  
 In the Southern Magnetic Hemisphere, N-seeking needle points up away from surface  
 At the Magnetic Equator, needle is parallel to Earth's surface

Inclination contours are from the World Magnetic Model 2020  
 from <https://www.ngdc.noaa.gov/geomag/WMM/DoDWMM.shtml>

Mercator Map Projection - Created in March 2022

## OmniSight and GeoLite Magnetic Zones

-  Northern Hemisphere Needle - ideal north of +30 inclination, functional down to 0
-  Equatorial Needle - ideal between +30 and -30, functional between +60 and -60
-  Southern Hemisphere Needle - ideal south of -30 inclination, functional up to 0
-  Black Out Zones - magnetic compass needles lose functionality