

## Test Values for WMM2025

The computation was carried out with double precision arithmetic. Single precision arithmetic can cause differences of up to 0.1 nT. Heights are with respect to the WGS 84 Ellipsoid. Grid Variation is with respect to the Grid North of the Universal Polar Stereographic Projection

Date	Height (km)	Lat (Deg)	Lon (Deg)	X (nT)	Y (nT)	Z (nT)	H (nT)	F (nT)	I (Deg)	D (Deg)	GV (Deg)
2025.0	0	80	0	6521.6	145.9	54791.5	6523.2	55178.5	83.21	1.28	1.28
2025.0	0	0	120	39677.8	-109.6	-10580.2	39677.9	41064.3	-14.93	-0.16	
2025.0	0	-80	240	6117.5	15751.9	-52022.5	16898.1	54698.2	-72	68.78	-51.22
2025.0	100	80	0	6216	92.4	52598.8	6216.7	52964.9	83.26	0.85	0.85
2025.0	100	0	120	37688.6	-96.2	-10152.1	37688.7	39032.1	-15.08	-0.15	
2025.0	100	-80	240	5907.6	14780.3	-49540.7	15917.1	52035	-72.19	68.21	-51.79
2027.5	0	80	0	6500.8	294.5	54869.4	6507.5	55253.9	83.24	2.59	2.59
2027.5	0	0	120	39701.6	-167.4	-10381.8	39702	41036.9	-14.65	-0.24	
2027.5	0	-80	240	6200.7	15730.3	-51783.7	16908.3	54474.2	-71.92	68.49	-51.51
2027.5	100	80	0	6196.7	233.8	52670.5	6201.1	53034.3	83.29	2.16	2.16
2027.5	100	0	120	37711.5	-148.7	-9969.8	37711.8	39007.4	-14.81	-0.23	
2027.5	100	-80	240	5984	14760.1	-49317.7	15927	51825.7	-72.1	67.93	-52.07
Date	Height (km)	Lat (Deg)	Lon (Deg)	Xdot (nT/yr)	Ydot (nT/yr)	Zdot (nT/yr)	Hdot (nT/yr)	Fdot (nT/yr)	Idot (deg/yr)	Ddot (deg/yr)	
2025.0	0	80	0	-8.3	59.5	31.1	-7	30.1	0.01	0.52	
2025.0	0	0	120	9.5	-23.1	79.4	9.6	-11.2	0.11	-0.03	
2025.0	0	-80	240	33.3	-8.6	95.5	4	-89.6	0.03	-0.12	
2025.0	100	80	0	-7.7	56.5	28.7	-6.9	27.6	0.01	0.52	
2025.0	100	0	120	9.2	-21	72.9	9.2	-10	0.11	-0.03	
2025.0	100	-80	240	30.6	-8	89.2	3.9	-83.8	0.03	-0.11	
2027.5	0	80	0	-8.3	59.5	31.1	-5.6	30.3	0.01	0.53	
2027.5	0	0	120	9.5	-23.1	79.4	9.6	-10.7	0.11	-0.03	
2027.5	0	-80	240	33.3	-8.6	95.5	4.2	-89.5	0.04	-0.12	
2027.5	100	80	0	-7.7	56.5	28.7	-5.6	27.8	0.01	0.52	
2027.5	100	0	120	9.2	-21	72.9	9.3	-9.7	0.11	-0.03	
2027.5	100	-80	240	30.6	-8	89.2	4	-83.7	0.03	-0.11	