Test Values for WMM2015v2

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)
2015	0	80	0	6636.6	-451.9	54408.9	6651.9	54814.0	83.03	-3.90	-3.90
2015	0	0	120	39521.1	377.7	-11228.8	39522.9	41087.1	-15.86	0.55	0.55
2015	0	-80	240	5796.3	15759.1	-52927.1	16791.2	55526.8	-72.40	69.81	309.81
2015	100	80	0	6323.4	-477.6	52249.1	6341.4	52632.5	83.08	-4.32	-4.32
2015	100	0	120	37538.1	351.1	-10751.1	37539.7	39048.9	-15.98	0.54	0.54
2015	100	-80	240	5612.2	14789.3	-50385.8	15818.3	52810.5	-72.57	69.22	309.22
2017.5	0	80	0	6605.2	-298.7	54506.3	6612.0	54905.9	83.08	-2.59	-2.59
2017.5	0	0	120	39569.4	252.3	-11067.9	39570.2	41088.9	-15.63	0.37	0.37
2017.5	0	-80	240	5864.6	15764.1	-52706.1	16819.7	55324.8	-72.30	69.59	309.59
2017.5	100	80	0	6294.3	-331.1	52337.8	6303.0	52716.0	83.13	-3.01	-3.01
2017.5	100	0	120	37584.4	235.7	-10600.5	37585.1	39051.4	-15.75	0.36	0.36
2017.5	100	-80	240	5674.9	14793.1	-50179.5	15844.2	52621.5	-72.48	69.01	309.01
Date	Height	Lat	Lon	Xdot	Ydot	Zdot	Hdot	Fdot	Idot	Ddot	
Date	(km)	(Deg)	(Deg)	(nT/yr)	(nT/yr)	Zdot (nT/yr)	Hdot (nT/yr)	Fdot (nT/yr)	Idot (deg/yr)	Ddot (deg/yr)	
2015	(km)	(Deg) 80	(Deg)	(nT/yr) -12.6	(nT/yr) 61.3	Zdot (nT/yr) 39.0	Hdot (nT/yr) -16.7	Fdot (nT/yr) 36.7	Idot (deg/yr) 0.02	Ddot (deg/yr) 0.52	
2015 2015	(km) 0	(Deg) 80	(Deg) 0 120	(nT/yr) -12.6 19.3	(nT/yr) 61.3 -50.2	Zdot (nT/yr) 39.0 64.3	Hdot (nT/yr) -16.7 18.8	Fdot (nT/yr) 36.7 0.5	Idot (deg/yr) 0.02 0.09	Ddot (deg/yr) 0.52 -0.07	
2015 2015 2015	(km) 0 0	(Deg) 80 0 -80	(Deg) 0 120 240	(nT/yr) -12.6 19.3 27.3	(nT/yr) 61.3 -50.2 2.0	Zdot (nT/yr) 39.0 64.3 88.4	Hdot (nT/yr) -16.7 18.8 11.3	Fdot (nT/yr) 36.7 0.5 -80.8	Idot (deg/yr) 0.02 0.09 0.04	Ddot (deg/yr) 0.52 -0.07 -0.09	
2015 2015 2015 2015	(km) 0 0 0 100	(Deg) 80	(Deg) 0 120 240 0	(nT/yr) -12.6 19.3 27.3 -11.6	(nT/yr) 61.3 -50.2 2.0 58.6	Zdot (nT/yr) 39.0 64.3 88.4 35.5	Hdot (nT/yr) -16.7 18.8 11.3 -16.0	Fdot (nT/yr) 36.7 0.5 -80.8 33.3	Idot (deg/yr) 0.02 0.09 0.04 0.02	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52	
2015 2015 2015 2015 2015	(km) 0 0 0 100 100	(Deg) 80 0 -80 80	(Deg) 0 120 240 0 120	(nT/yr) -12.6 19.3 27.3 -11.6 18.5	(nT/yr) 61.3 -50.2 2.0 58.6 -46.1	Zdot (nT/yr) 39.0 64.3 88.4 35.5 60.2	Hdot (nT/yr) -16.7 18.8 11.3 -16.0 18.1	Fdot (nT/yr) 36.7 0.5 -80.8 33.3 0.8	Idot (deg/yr) 0.02 0.09 0.04 0.02 0.09	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52 -0.07	
2015 2015 2015 2015 2015 2015	(km) 0 0 0 100	(Deg) 80 0 -80 80 0 -80	(Deg) 0 120 240 0 120 240 240	(nT/yr) -12.6 19.3 27.3 -11.6 18.5 25.1	(nT/yr) 61.3 -50.2 2.0 58.6 -46.1 1.5	Zdot (nT/yr) 39.0 64.3 88.4 35.5 60.2 82.5	Hdot (nT/yr) -16.7 18.8 11.3 -16.0 18.1 10.3	Fdot (nT/yr) 36.7 0.5 -80.8 33.3 0.8 -75.6	1dot (deg/yr) 0.02 0.09 0.04 0.02 0.09	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52 -0.07 -0.08	
2015 2015 2015 2015 2015 2015 2017.5	(km) 0 0 0 100 100	(Deg) 80 0 -80 80	(Deg) 0 120 240 0 120 240 240 0 0	(nT/yr) -12.6 19.3 27.3 -11.6 18.5	(nT/yr) 61.3 -50.2 2.0 58.6 -46.1	Zdot (nT/yr) 39.0 64.3 88.4 35.5 60.2	Hdot (nT/yr) -16.7 18.8 11.3 -16.0 18.1	Fdot (nT/yr) 36.7 0.5 -80.8 33.3 0.8	Idot (deg/yr) 0.02 0.09 0.04 0.02 0.09 0.04	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52 -0.07	
2015 2015 2015 2015 2015 2015 2017.5 2017.5	(km) 0 0 0 100 100 100	(Deg) 80 -80 80 0 -80 -80 80	(Deg) 0 120 240 0 120 240 0 120 120	(nT/yr) -12.6 19.3 27.3 -11.6 18.5 25.1 -12.6 19.3	(nT/yr) 61.3 -50.2 2.0 58.6 -46.1 1.5 61.3 -50.2	Zdot (nT/yr) 39.0 64.3 88.4 35.5 60.2 82.5 39.0 64.3	Hdot (nT/yr) -16.7 18.8 11.3 -16.0 18.1 10.3 -15.3 19.0	Fdot (nT/yr) 36.7 0.5 -80.8 33.3 0.8 -75.6 36.9 1.0	1dot (deg/yr) 0.02 0.09 0.04 0.02 0.09 0.04 0.02	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52 -0.07 -0.08 0.53 -0.07	
2015 2015 2015 2015 2015 2017 2017.5 2017.5	(km) 0 0 100 100 100 0 0 0	(Deg) 80 -80 80 0 -80 80 -80 -80	(Deg) 0 120 240 0 120 240 240 0 0	(nT/yr) -12.6 19.3 27.3 -11.6 18.5 25.1 -12.6 19.3 27.3	(nT/yr) 61.3 -50.2 2.0 58.6 -46.1 1.5 61.3 -50.2 2.0	Zdot (nT/yr) 39.0 64.3 88.4 35.5 60.2 82.5 39.0 64.3 88.4	Hdot (nT/yr) -16.7 18.8 11.3 -16.0 18.1 10.3 -15.3 19.0 11.4	Fdot (nT/yr) 36.7 0.5 -80.8 33.3 0.8 -75.6 36.9 1.0 -80.7	Idot (deg/yr) 0.02 0.09 0.04 0.02 0.09 0.04 0.02	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52 -0.07 -0.08 0.53 -0.07 -0.08	
2015 2015 2015 2015 2015 2015 2017.5 2017.5 2017.5	(km) 0 0 0 100 100 100 0 0	(Deg) 80 -80 80 0 -80 -80 80	(Deg) 0 120 240 0 120 240 0 120 120	(nT/yr) -12.6 19.3 27.3 -11.6 18.5 25.1 -12.6 19.3	(nT/yr) 61.3 -50.2 2.0 58.6 -46.1 1.5 61.3 -50.2	Zdot (nT/yr) 39.0 64.3 88.4 35.5 60.2 82.5 39.0 64.3 88.4 35.5	Hdot (nT/yr) -16.7 18.8 11.3 -16.0 18.1 10.3 -15.3 19.0	Fdot (nT/yr) 36.7 0.5 -80.8 33.3 0.8 -75.6 36.9 1.0	1dot (deg/yr) 0.02 0.09 0.04 0.02 0.09 0.04 0.09 0.04	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52 -0.07 -0.08 0.53 -0.07	
2015 2015 2015 2015 2015 2017 2017.5 2017.5	(km) 0 0 100 100 100 0 0 0	(Deg) 80 -80 80 0 -80 80 -80 -80	(Deg) 0 120 240 0 120 240 0 120 240 0 120 240	(nT/yr) -12.6 19.3 27.3 -11.6 18.5 25.1 -12.6 19.3 27.3	(nT/yr) 61.3 -50.2 2.0 58.6 -46.1 1.5 61.3 -50.2 2.0	Zdot (nT/yr) 39.0 64.3 88.4 35.5 60.2 82.5 39.0 64.3 88.4	Hdot (nT/yr) -16.7 18.8 11.3 -16.0 18.1 10.3 -15.3 19.0 11.4	Fdot (nT/yr) 36.7 0.5 -80.8 33.3 0.8 -75.6 36.9 1.0 -80.7	Idot (deg/yr) 0.02 0.09 0.04 0.02 0.09 0.04 0.02	Ddot (deg/yr) 0.52 -0.07 -0.09 0.52 -0.07 -0.08 0.53 -0.07 -0.08	