

TUCSON

United States, 1909.500 - 1997.500

95 observations

S = Status (O-open, C-closed, U-uncertain, N-new, V-variation)
 T = Type of mean (A-all day, D-disturbed, Q-quiet, P-preliminary)
 N = Note number
 SR = Source number

The program run from this form computes the values of the Earth's magnetic field parameters for a given location and date or date range. The magnetic parameters (D, I, H, X, Y, Z, and F) are computed based on a Schmidt quasinormalized spherical harmonic model of the magnetic field. Accuracies for the angular components (Declination, D and Inclination, I) are reported in degrees and minutes of arc and are generally within 30 minutes. Accuracies for the force components (Horizontal - H, North - X, East - Y, Vertical - Z, and Total force - F) are generally within 25 nanotesla. Local disturbances and attempting to use a model beyond its valid date range could cause greater errors. The sign convention used throughout is Declination (D) positive east, Inclination (I) and Vertical intensity (Z) positive down, North component (X) positive north, and East component (Y) positive east. The current igrf model is used for all computations. Answers to some commonly asked questions can be found at our FAQ site.

[NOTE: Format for the main data table is at the end of this file]

Date	IAGA Code	Lat	Long	Elev	S	T	D	I	H	X	Y	Z	F	N	SR
1909.500	TUC1	32.250	249.170	770	O	A	13.392	59.285	27418.0	26672.0	6350.0	46157.0	53686.0		99
1910.500	TUC1	32.250	249.170	770	O	A	13.430	59.279	27387.0	26638.0	6361.0	46095.0	53617.0		1
1911.500	TUC1	32.250	249.170	770	O	A	13.495	59.285	27351.0	26596.0	6383.0	46044.0	53555.0		1
1912.500	TUC1	32.250	249.170	770	O	A	13.558	59.291	27312.0	26551.0	6403.0	45990.0	53488.0		1
1913.500	TUC1	32.250	249.170	770	O	A	13.617	59.316	27255.0	26489.0	6417.0	45941.0	53417.0		1
1914.500	TUC1	32.250	249.170	770	O	A	13.665	59.340	27196.0	26426.0	6425.0	45881.0	53335.0		1
1915.500	TUC1	32.250	249.170	770	O	A	13.708	59.366	27127.0	26355.0	6429.0	45814.0	53243.0		1
1916.500	TUC1	32.250	249.170	770	O	A	13.740	59.388	27071.0	26297.0	6430.0	45759.0	53167.0		1
1917.500	TUC1	32.250	249.170	770	O	A	13.768	59.395	27029.0	26253.0	6433.0	45698.0	53093.0		1
1918.500	TUC1	32.250	249.170	770	O	A	13.785	59.396	26988.0	26211.0	6431.0	45633.0	53016.0		1
1919.500	TUC1	32.250	249.170	770	O	A	13.797	59.405	26944.0	26167.0	6426.0	45572.0	52941.0		1
1920.500	TUC1	32.250	249.170	770	O	A	13.800	59.413	26912.0	26135.0	6419.0	45535.0	52893.0		1
1921.500	TUC1	32.250	249.170	770	O	A	13.795	59.420	26875.0	26100.0	6408.0	45485.0	52831.0		1
1922.500	TUC1	32.250	249.170	770	O	A	13.792	59.436	26837.0	26063.0	6398.0	45451.0	52783.0		1
1923.500	TUC1	32.250	249.170	770	O	A	13.787	59.431	26796.0	26024.0	6386.0	45372.0	52694.0		1
1924.500	TUC1	32.250	249.170	770	O	A	13.773	59.441	26754.0	25985.0	6370.0	45318.0	52626.0		1
1925.500	TUC1	32.250	249.170	770	O	A	13.753	59.460	26706.0	25941.0	6349.0	45269.0	52559.0		1
1926.500	TUC1	32.250	249.170	770	O	A	13.742	59.481	26651.0	25888.0	6331.0	45218.0	52488.0		1
1927.500	TUC1	32.250	249.170	770	O	A	13.732	59.491	26598.0	25838.0	6314.0	45144.0	52397.0		1
1928.500	TUC1	32.250	249.170	770	O	A	13.743	59.506	26549.0	25789.0	6307.0	45086.0	52322.0		1
1929.500	TUC1	32.250	249.170	770	O	A	13.762	59.525	26504.0	25743.0	6305.0	45046.0	52265.0		1

1930.500	TUC1	32.250	249.170	770	O	A	13.793	59.558	26452.0	25689.0	6307.0	45015.0	52212.0	1
1931.500	TUC1	32.250	249.170	770	O	A	13.823	59.571	26412.0	25647.0	6311.0	44972.0	52154.0	1
1932.500	TUC1	32.250	249.170	770	O	A	13.850	59.600	26369.0	25603.0	6312.0	44948.0	52112.0	1
1933.500	TUC1	32.250	249.170	770	O	A	13.867	59.610	26334.0	25567.0	6311.0	44906.0	52058.0	1
1934.500	TUC1	32.250	249.170	770	O	A	13.865	59.615	26307.0	25541.0	6304.0	44868.0	52012.0	1
1935.500	TUC1	32.250	249.170	770	O	A	13.863	59.621	26274.0	25509.0	6295.0	44825.0	51958.0	1
1936.500	TUC1	32.250	249.170	770	O	A	13.853	59.630	26243.0	25480.0	6284.0	44787.0	51909.0	1
1937.500	TUC1	32.250	249.170	770	O	A	13.840	59.631	26208.0	25447.0	6269.0	44731.0	51843.0	1
1938.500	TUC1	32.250	249.170	770	O	A	13.823	59.621	26186.0	25428.0	6257.0	44675.0	51784.0	1
1939.500	TUC1	32.250	249.170	770	O	A	13.820	59.633	26153.0	25396.0	6247.0	44640.0	51737.0	1
1940.500	TUC1	32.250	249.170	770	O	A	13.803	59.630	26134.0	25379.0	6235.0	44602.0	51695.0	1
1941.500	TUC1	32.250	249.170	770	O	A	13.790	59.631	26120.0	25367.0	6226.0	44582.0	51670.0	1
1942.500	TUC1	32.250	249.170	770	O	A	13.768	59.615	26117.0	25367.0	6216.0	44543.0	51635.0	1
1943.500	TUC1	32.250	249.170	770	O	A	13.745	59.608	26099.0	25352.0	6201.0	44504.0	51592.0	1
1944.500	TUC1	32.250	249.170	770	O	A	13.715	59.586	26092.0	25348.0	6186.0	44453.0	51545.0	1
1945.500	TUC1	32.250	249.170	770	O	A	13.682	59.575	26082.0	25342.0	6169.0	44413.0	51505.0	1
1946.500	TUC1	32.250	249.170	770	O	A	13.638	59.576	26054.0	25320.0	6143.0	44370.0	51454.0	1
1947.500	TUC1	32.250	249.170	770	O	A	13.588	59.555	26042.0	25313.0	6119.0	44312.0	51398.0	1
1948.500	TUC1	32.250	249.170	770	O	A	13.535	59.531	26035.0	25312.0	6093.0	44258.0	51348.0	1
1949.500	TUC1	32.250	249.170	770	O	A	13.487	59.521	26023.0	25306.0	6069.0	44218.0	51307.0	1
1950.500	TUC1	32.250	249.170	770	O	A	13.442	59.501	26018.0	25306.0	6048.0	44175.0	51268.0	1
1951.500	TUC1	32.250	249.170	770	O	A	13.405	59.486	26011.0	25303.0	6030.0	44137.0	51231.0	1
1952.500	TUC1	32.250	249.170	770	O	A	13.375	59.471	26006.0	25301.0	6016.0	44102.0	51199.0	1
1953.500	TUC1	32.250	249.170	770	O	A	13.353	59.453	26004.0	25301.0	6006.0	44067.0	51167.0	1
1954.500	TUC1	32.250	249.170	770	O	A	13.330	59.438	26000.0	25300.0	5995.0	44033.0	51136.0	1
1955.500	TUC1	32.250	249.170	770	O	A	13.307	59.431	25984.0	25287.0	5981.0	43993.0	51093.0	1
1956.500	TUC1	32.250	249.170	770	O	A	13.287	59.428	25959.0	25264.0	5966.0	43946.0	51040.0	1
1957.500	TUC1	32.250	249.170	770	O	A	13.267	59.420	25947.0	25255.0	5955.0	43911.0	51004.0	1
1958.500	TUC1	32.250	249.170	770	O	A	13.252	59.406	25941.0	25250.0	5947.0	43877.0	50972.0	1
1959.500	TUC1	32.250	249.170	770	O	A	13.232	59.391	25931.0	25243.0	5935.0	43836.0	50931.0	1
1960.500	TUC1	32.250	249.170	770	O	A	13.212	59.380	25921.0	25235.0	5924.0	43795.0	50891.0	1
1961.500	TUC1	32.250	249.170	770	O	A	13.183	59.345	25925.0	25242.0	5913.0	43743.0	50848.0	1
1962.500	TUC1	32.250	249.170	770	O	A	13.147	59.316	25923.0	25244.0	5896.0	43689.0	50801.0	1
1963.500	TUC1	32.250	249.170	770	O	A	13.112	59.311	25906.0	25231.0	5877.0	43652.0	50760.0	1
1964.500	TUC1	32.250	249.170	770	O	A	13.080	59.301	25895.0	25223.0	5860.0	43616.0	50724.0	1
1965.500	TUC1	32.250	249.170	770	O	A	13.050	59.285	25887.0	25219.0	5845.0	43574.0	50683.0	1
1966.500	TUC1	32.250	249.170	770	O	A	13.015	59.280	25871.0	25207.0	5826.0	43538.0	50644.0	1
1967.500	TUC1	32.250	249.170	770	O	A	12.978	59.275	25856.0	25196.0	5807.0	43504.0	50607.0	1
1968.500	TUC1	32.250	249.170	770	O	A	12.933	59.262	25846.0	25191.0	5785.0	43467.0	50570.0	1
1969.500	TUC1	32.250	249.170	770	O	A	12.877	59.241	25845.0	25195.0	5760.0	43429.0	50537.0	1
1970.500	TUC1	32.250	249.170	770	O	A	12.820	59.225	25841.0	25197.0	5734.0	43395.0	50506.0	1
1971.500	TUC1	32.250	249.170	770	O	A	12.760	59.207	25838.0	25200.0	5707.0	43358.0	50473.0	1
1972.500	TUC1	32.250	249.170	770	O	A	12.698	59.198	25822.0	25191.0	5676.0	43316.0	50428.0	1
1973.500	TUC1	32.250	249.170	770	O	A	12.627	59.188	25806.0	25182.0	5641.0	43270.0	50381.0	1
1974.500	TUC1	32.250	249.170	770	O	A	12.548	59.181	25785.0	25169.0	5602.0	43225.0	50332.0	1

1975.500	TUC1	32.250	249.170	770	O	A	12.465	59.170	25766.0	25159.0	5562.0	43173.0	50277.0		1
1976.500	TUC1	32.250	249.170	770	O	A	12.385	59.163	25741.0	25142.0	5522.0	43121.0	50219.0	3	1
1977.500	TUC1	32.250	249.170	770	O	A	12.307	59.156	25713.0	25122.0	5481.0	43061.0	50153.0		1
1978.500	TUC1	32.250	249.170	770	O	A	12.232	59.168	25670.0	25087.0	5439.0	43009.0	50087.0		1
1979.500	TUC1	32.250	249.170	770	O	A	12.160	59.160	25644.0	25069.0	5402.0	42950.0	50023.0		1
1980.500	TUC1	32.250	249.170	770	O	A	12.097	59.143	25626.0	25057.0	5371.0	42892.0	49964.0		1
1981.500	TUC1	32.250	249.170	770	O	A	12.048	59.146	25594.0	25031.0	5343.0	42844.0	49907.0		1
1982.500	TUC1	32.250	249.170	770	O	A	12.003	59.145	25567.0	25008.0	5317.0	42795.0	49850.0		2
1982.500	TUC1	32.250	249.170	770	O	D	11.979	59.173	25529.0	24973.0	5299.0	42781.0	49865.0		2
1982.500	TUC1	32.250	249.170	770	O	Q	11.981	59.134	25565.0	25008.0	5307.0	42775.0	49832.0		2
1983.500	TUC1	32.250	249.170	770	O	A	11.962	59.123	25555.0	25000.0	5297.0	42740.0	49843.0		2
1983.500	TUC1	32.250	249.170	770	O	D	11.979	59.144	25536.0	24980.0	5300.0	42743.0	49835.0		2
1983.500	TUC1	32.250	249.170	770	O	Q	11.952	59.110	25567.0	25013.0	5295.0	42737.0	49847.0		2
1984.500	TUC1	32.250	249.170	770	O	A	11.944	59.115	25531.0	24978.0	5284.0	42686.0	49785.0		2
1984.500	TUC1	32.250	249.170	770	O	D	11.963	59.128	25556.0	25001.0	5298.0	42741.0	49798.0		2
1984.500	TUC1	32.250	249.170	770	O	Q	11.945	59.105	25532.0	24979.0	5285.0	42687.0	49740.0		2
1985.500	TUC1	32.250	249.170	770	O	A	11.915	59.098	25514.0	24965.0	5268.0	42629.0	49680.0		6
1986.500	TUC1	32.250	249.170	770	O	A	11.885	59.092	25488.0	24942.0	5249.0	42573.0	49620.0		6
1987.500	TUC1	32.250	249.170	770	O	A	11.858	59.078	25467.0	24923.0	5234.0	42516.0	49559.0		6
1988.500	TUC1	32.250	249.170	770	O	A	11.828	59.185	25410.0	24870.0	5209.0	42599.0	49601.0		6
1989.500	TUC1	32.250	249.170	770	O	A	11.807	59.200	25366.0	24829.0	5191.0	42553.0	49540.0		6
1990.500	TUC1	32.250	249.170	770	O	A	11.788	59.197	25342.0	24807.0	5177.0	42505.0	49486.0		6
1991.500	TUC1	32.250	249.170	770	O	A	11.775	59.210	25302.0	24770.0	5163.0	42463.0	49429.0		6
1992.500	TUC1	32.250	249.170	770	O	A	11.760	59.203	25280.0	24750.0	5152.0	42415.0	49377.0		6
1993.500	TUC1	32.250	249.170	770	O	A	11.745	59.198	25255.0	24727.0	5141.0	42364.0	49321.0		7
1994.500	TUC1	32.250	249.170	770	O	A	11.728	59.203	25218.0	24692.0	5126.0	42311.0	49256.0		9
1995.500	TUC1	32.250	249.170	770	O	A	11.693	59.188	25194.0	24671.0	5106.0	42244.0	49186.0		8
1996.500	TUC1	32.250	249.170	770	O	A	11.132	59.341	25109.0	24636.6	4847.7	42358.0	49240.9	4	10
1997.500	TUC1	32.250	249.170	770	O	A	11.083	59.332	25075.0	24607.3	4820.3	42284.5	49160.3		11

IAGA Code	Note Number	Note
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TUC1	3	Annual means based on 11 months only
TUC1	4	1996 Tucson site moved to Latitude: 32 degrees 10.5 minutes North and Longitude: 110 degrees 44.0 minutes West.

IAGA Code	Source Number	Source
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TUC1	1	OBSERVATORY FILE - NGSDC/EDIS/NOAA
TUC1	2	WDCA Printouts
TUC1	6	BGS Digital Data File 10-94

TUC1 7 Letter from U.S. Department of Interior dated December 5, 1994
TUC1 8 1995 OBSERVATORY ANNUAL MEANS FORM 102 U.S.COMM-DC 27396-P. RECEIVED JUNE 19, 1996.
TUC1 9 1994 OBSERVATORY ANNUAL MEANS FORM 102 U.S.COMM-DC 27396-P. RECEIVED JUNE 27, 1995.
TUC1 10 1996 Observatory annual means form USCOMM-DC 27396-P. Received June 6, 1997.
TUC1 11 Data received from US Dept of Commerce Coast & Geodetic Survey Geophysical Div, March 25, 1998.
TUC1 99 Unidentified

FORMAT FOR MAIN DATA TABLE:

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Column(s) Length Contents
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     10-11    2 <blank>
     12-16    5 IAGA CODE
     17-18    2 <blank>
     19-25    7 LATITUDE
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