

To calculate Anomalous GemS – EMF Score:

Calculate each line below following equation then sum all resultant values together to obtain score. If the Survey is completed online and a valid email is provided the score will be calculated and sent to you. Score 0-2999: Low EMF; 3000-5999: Medium EMF; 6000 and greater: High EMF.

12. $10 \times \text{Latitude} =$ _____
13. $\text{Longitude} / 10 =$ _____
14. $10 \times \text{Kp Index} =$ _____
15. $\text{Abs}(10 \times \text{Cosmic Ray Count}) =$ _____ (Abs means any negative sign is ignored)
16. $\text{Magnetometer Range nT} =$ _____
17. If Search Coil Spikes is Yes then enter 100 else 0 = _____
18. If Pc1 Pulsations is Yes then enter 100 else 0 = _____
19. Search Coil Description _____
20. Sunspot Counts = _____
21. Max Temperature in F = _____
22. $10 \times (\text{Max Temp} - \text{Min Temp}) =$ _____
23. Relative Humidity % = _____
24. Cloud Cover % = _____
25. $50 \times \text{Precip (in)} =$ _____
26. $10 \times \text{Wind Speed mph} =$ _____
27. $\text{Sea Level Pressure (mb)} / 10 =$ _____
28. $1440 - (1440 \times (\text{Sunset} - \text{Sunrise})) =$ _____
29. Used in step 28
30. $100 \times \text{Moon Phase} =$ _____
31. If Lightning is Yes then 100 else 0 = _____
32. $\text{Number Global Lightning Spikes} / 100 =$ _____
33. If Earthquakes is Yes then 100 else 0 = _____
34. $\text{Number of Global Earthquakes} =$ _____
35. $\text{WSPR Spots 20 meter} / 100 =$ _____
36. $\text{WSPR Spots -1 X (40 meter / 100)} =$ _____
37. $\text{Solar Wind Speed km/s} =$ _____
38. $\text{Solar Density protons/cm}^3 =$ _____
39. If Active Fault Lines is Yes then 100 else 0 = _____
40. If Ground Water and Springs is Yes then 100 else 0 = _____
41. If Quartz Deposits is Yes then 100 else 0 = _____
42. If Geomagnetic Anomalies is yes then 100 else 0 = _____

Sum = _____

GemS Score is $\text{Sum} / 1000 =$ _____

Example 1: January 7, 2024 Toronto Canada

1	Contact Info.		
2	Description	Control	Score
3	Audio Video Photos (Y/N)	N	
4	Audio Video Photos Sent	N	
5	Local Date	2024-01-07	
6	Local Time	17:15:00	
7	Time Zone	-5	
8	DST Y/N	N	
9	UT Date	2024-01-07	
10	UT Time	22:15:00	
11	Address	Toronto Canada	
12	Lat	43.653225	436.53225
13	Long	-79.383186	-7.9383186
14	KP Index	0	0
15	Cosmic Ray Count	0	0
16	Magnetometer Range Scale (nT)	100	100
17	Search Coil Spikes (Y/N)	N	0
18	Pc1 Pulsations (Y/N)	N	0
19	Search Coil Desc	Quiet	
20	Sunspot Counts	140	140
21	Max Temp (F)	32.1	32.1
22	Min Temp (F)	24.8	73
23	Rel Humid (%)	78	78
24	Cloud Cover (%)	84	84
25	Precip (in)	0	0
26	Wind Speed (mph)	23.6	236
27	Sea Level Pressure (mb)	1010	101
28	Sunrise	07:50:56	894.15
29	Sunset	16:56:47	
30	Moon Phase (0-1)	0.88	88
31	Lightning (Y/N)	N	0
32	Number of Global Lightning	2803	28.03
33	Earthquakes(>=2.5 Y/N)	Y	100
34	Num Global Earthquakes	122	122
35	WSPR Spots 20 Meter	899633	89.9633
36	WSPR Spots 40 Meter	1350200	135.02
37	Solar Wind Speed (km/s)	467.8	467.8
38	Solar Wind Density protons/cm3	3.59	359
39	Active Fault Lines (Y/N)	N	0
40	Ground water & Springs (Y/N)	Y	100
41	Quartz Mineral Deposits (Y/N)	Y	100
42	Geo magnetic anomalies (Y/N)	N	0
	SUM>		3757
43	GEmS (GeoElectromagnetic Scale)	GemS = Sum/1000	3.76

Example 2: May 11, 2024 Toronto Canada

	Storm	Score
1 Contact Info.		
2 Description	Storm	
3 Audio Video Photos (Y/N)	N	
4 Audio Video Photos Sent	N	
5 Local Date	2024-05-11	
6 Local Time	17:15:00	
7 Time Zone	-5	
8 DST Y/N	Y	
9 UT Date	2024-01-11	
10 UT Time	21:15:00	
11 Address	Toronto Canada	
12 Lat	43.653225	436.53225
13 Long	-79.383186	-7.9383186
14 KP Index	9	90
15 Cosmic Ray Count	-8.5	85
16 Magnetometer Range Scale (nT)	3000	3000
17 Search Coil Spikes (Y/N)	Y	100
18 Pc1 Pulsations (Y/N)	Y	100
19 Search Coil Desc	Spikes & Pc1's	
20 Sunspot Counts	150	150
21 Max Temp (F)	57	57
22 Min Temp (F)	49.4	76
23 Rel Humid (%)	72	72
24 Cloud Cover (%)	57	57
25 Precip (in)	0.1	5
26 Wind Speed (mph)	16	160
27 Sea Level Pressure (mb)	1007	100.7
28 Sunrise	05:56:21	564.08
29 Sunset	20:32:16	
30 Moon Phase (0-1)	0.11	11
31 Lightning (Y/N)	Y	100
32 Number of Global Lightning	23870	238.7
33 Earthquakes(>=2.5 Y/N))	N	0
34 Num Global Earthquakes	133	133
35 WSPR Spots 20 Meter	391770	3917.7
36 WSPR Spots 40 Meter	355011	-3550.11
37 Solar Wind Speed (km/s)	907.2	907.2
38 Solar Wind Density protons/cm ³	1.09	109
39 Active Fault Lines (Y/N)	N	0
40 Ground water & Springs (Y/N)	Y	100
41 Quartz Mineral Deposits (Y/N)	Y	100
42 Geo magnetic anomalies (Y/N)	N	0
	SUM>	7112
43 GEmS (GeoElectromagnetic Scale)	GemS = Sum/1000	7.11