

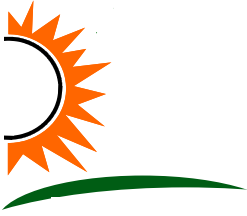
***Georgi Dobrovolski  
Solar Observatory***

***OBSERVED, CORRECTED  
& SMOOTHED  
ACTIVE AREAS (g)  
1973 - 2013***

**COMPILED BY HOWARD BARNES,  
NEW ZEALAND.**

**E-MAIL: [gdso@earthling.net](mailto:gdso@earthling.net)**

**Fourth Edition,  
Published, October MMXIV.**



## SMOOTHING FORMULÆ.

The following are the three formulæ used in the smoothing of GDSO sunspot data. All are based on monthly means .

Data suffixed ( $S^{\text{HBm}}$ ) are computed as:

$$((\bar{x}_{+3} + \bar{x}_{-3}) + 2(\bar{x}_{+2} + \bar{x}_{-2}) + 3(\bar{x}_{+1} + \bar{x}_{-1}) + 4\bar{x}_0) / 16$$

Data suffixed ( $S^{\text{W}}$ ) are computed as:

$$\left( \sum_{-5}^{+5} \bar{x} + [\bar{x}_{+6} + \bar{x}_{-6}] / 2 \right) / 12$$

Data suffixed ( $S^{\text{B13}}$ ) are computed as:

$$(0.75(x_{+6} + x_{-6}) + 2(x_{+5} + x_{-5}) + 3(x_{+4} + x_{-4}) + 4(x_{+3} + x_{-3}) + 5(x_{+2} + x_{-2}) + 6(x_{+1} + x_{-1}) + 6.5x_0) / 48$$

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† = interpolated value.

\* = data based on interpolated value.



Observed GDSO Active Areas (g) are corrected for seeing conditions and seasonal effects to create the Corrected GDSO Active Areas ( $g_{GD}$ ).

These two series are smoothed (the observed by three methods, the corrected by two) to create the data in the unshaded columns.

DEFINITIONS:

$$g_{GD} = k( )$$

where g = number of sunspot regions

& k = up- or downgrading figure to bring observatories to a world standard.

g = observed Active Area mean , same as above, but k = 1.

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	$g_{GD}$	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
1973 Apr	2.33	—	—	—	—	—	—
May	0.63	—	—	—	—	—	—
Jun	0.54	—	—	—	—	—	—
Jul	0.86	1.2106	—	—	—	—	—
Aug	1.00	1.3225	—	—	—	—	—
Sep	3.36	1.4988	—	—	—	—	—
Oct	1.00	1.4000	1.1779	1.2579	—	—	—
Nov	0.79	1.2788	1.1617	1.2228	—	—	—
Dec	0.70	1.1625	1.2571	1.2344	—	—	—
1974 Jan	1.69	1.0838	1.3663	1.2614	—	—	—
Feb	1.10	1.1019	1.4817	1.2980	—	—	—
Mar	0.80	1.1631	1.4792	1.3352	—	—	—
Apr	1.00	1.3069	1.4279	1.4058	—	—	—
May	1.57	1.5256	1.4504	1.5097	—	—	—
Jun	1.89	1.7663	1.4763	1.5919	—	—	—
Jul	2.13	1.9225	1.4525	1.6245	—	—	—
Aug	2.50	1.9250	1.4075	1.6070	—	—	—
Sep	1.80	1.7469	1.3850	1.5425	—	—	—
Oct	1.33	1.4863	1.3250	1.4195	—	—	—
Nov	1.00	1.2400	1.2238	1.2546	—	—	—
Dec	1.11	1.0244	1.1033	1.0739	—	—	—
1975 Jan	0.71	0.8263	1.0429	0.9224	—	—	—
Feb	1.00	0.6606	0.9671	0.8035	—	—	—
Mar	0.36	0.4800	0.8296	0.7035	—	—	—
Apr	0.00	0.4506	0.7421	0.6473	—	—	—
May	0.14	0.5325	0.7117	0.6424	—	—	—
Jun	0.43	0.6619	0.6708	0.6648	—	—	—
Jul	2.14	0.8438	0.6158	0.6799	—	—	—
Aug	0.67	0.8369	0.5696	0.6653	—	—	—
Sep	0.33	0.7606	0.5546	0.6431	—	—	—
Oct	0.70	0.6688	0.6417	0.6522	—	—	—
Nov	0.90	0.5369	0.7338	0.6628	—	—	—
Dec	0.23	0.4681	0.7588	0.6502	—	—	—

MONTH	$g$	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	$g_{GD}$	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
1976 Jan	0.27	0.5238	0.6808	0.6209	—	—	—
Feb	0.33	0.6019	0.6004	0.6159	—	—	—
Mar	0.67	0.7200	0.6246	0.6530	—	—	—
Apr	1.78	0.8169	0.6613	0.6860	—	—	—
May	0.57	0.7544	0.6600	0.6914	—	—	—
Jun	0.60	0.6875	0.6763	0.6947	—	—	—
Jul	0.10	0.6356	0.7308	0.7141	—	—	—
Aug	0.78	0.6419	0.7788	0.7395	—	—	—
Sep	0.80	0.7281	0.7979	0.7572	—	—	—
Oct	1.11	0.7969	0.7288	0.7462	—	—	—
Nov	0.46	0.8269	0.6813	0.7397	—	—	—
Dec	1.06	0.8344	0.7450	0.7676	—	—	—
1977 Jan	0.75	0.7788	0.8333	0.8054	—	—	—
Feb	1.00	0.7344	0.8967	0.8353	—	—	—
Mar	0.46	0.7481	0.9725	0.8779	—	—	—
Apr	0.33	0.7956	1.0804	0.9644	—	—	—
May	0.88	0.9556	1.1800	1.0902	—	—	—
Jun	1.82	1.1775	1.2792	1.2322	—	—	—
Jul	1.00	1.3906	1.3992	1.3840	—	—	—
Aug	1.40	1.5988	1.6250	1.5881	—	—	—
Sep	2.00	1.8050	1.9717	1.8671	—	—	—
Oct	2.50	1.9569	2.3654	2.1915	—	—	—
Nov	1.46	2.2175	2.7013	2.5254	—	—	—
Dec	2.44	2.6619	2.9729	2.8780	—	—	—
1978 Jan	2.25	3.2250	3.2163	3.2559	—	—	—
Feb	4.92	3.8750	3.3621	3.5889	—	—	—
Mar	4.86	4.3994	3.5238	3.8482	—	—	—
Apr	5.38	4.6156	3.8000	4.0646	—	—	—
May	3.89	4.4725	4.0958	4.2423	—	—	—
Jun	5.33	4.2781	4.3479	4.3668	—	—	—
Jul	3.33	4.1263	4.6733	4.4851	—	—	—
Aug	2.57	4.1519	4.8896	4.6157	—	—	—
Sep	4.71	4.5244	4.9225	4.7708	—	—	—
Oct	6.42	5.0006	4.9338	4.9429	—	—	—
Nov	4.64	5.3306	5.0658	5.1351	—	—	—
Dec	5.31	5.6263	5.2925	5.3696	—	—	—

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	$g_{GD}$	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
1979 Jan	7.19	5.7381	5.5704	5.6323	—	—	—
Feb	5.17	5.7038	5.8767	5.8679	—	—	—
Mar	5.40	5.8825	6.0754	6.0382	—	—	—
Apr	5.11	6.1763	6.1500	6.1838	—	—	—
May	7.33	6.4913	6.2525	6.3505	—	—	—
Jun	7.33	6.7644	6.4000	6.4964	—	—	—
Jul	8.00	6.8269	6.3913	6.5419	—	—	—
Aug	5.25	6.6894	6.3513	6.5348	—	—	—
Sep	6.80	6.5956	6.3358	6.5023	—	—	—
Oct	6.12	6.4975	6.3146	6.4232	—	—	—
Nov	7.40	6.4175	6.2842	6.2990	—	—	—
Dec	6.09	6.2250	6.2583	6.1698	—	—	—
1980 Jan	6.20	5.9119	6.1750	6.0565	—	—	—
Feb	5.20	5.6681	6.1021	5.9771	—	—	—
Mar	5.00	5.6150	6.0708	5.9338	—	—	—
Apr	5.00	5.7744	6.0554	5.9382	—	—	—
May	6.71	6.0331	6.0283	5.9836	—	—	—
Jun	7.33	6.2031	6.0433	6.0513	—	—	—
Jul	6.00	6.2038	6.0842	6.1157	—	—	—
Aug	5.50	6.1494	6.1004	6.1693	—	—	—
Sep	5.80	6.2031	6.2442	6.2623	—	—	—
Oct	6.75	6.2975	6.4442	6.3743	—	—	—
Nov	6.12	6.3969	6.5842	6.4751	—	—	—
Dec	7.73	6.5688	6.4992	6.5165	—	—	—
1981 Jan	5.54	6.5806	6.3979	6.5331	—	—	—
Feb	6.25	6.7419	6.5021	6.5990	—	—	—
Mar	7.40	6.8144	6.6117	6.6655	—	—	—
Apr	7.40	6.7550	6.6679	6.6915	—	—	—
May	7.67	6.7181	6.5442	6.6177	—	—	—
Jun	4.33	6.4750	6.3700	6.4904	—	—	—
Jul	6.57	6.5438	6.3438	6.4190	—	—	—
Aug	7.43	6.4100	6.4513	6.3929	—	—	—
Sep	6.50	6.2581	6.6333	6.3956	—	—	—
Oct	7.40	6.1150	6.7438	6.4235	—	—	—
Nov	2.50	5.8738	6.5879	6.4423	—	—	—
Dec	7.17	6.3006	6.3417*	6.4665*	—	—	—

\* = data based on interpolated value.

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	g <sub>GD</sub>	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
1982 Jan	5.47	6.8163	6.2142*	6.4797*	—	—	—
Feb	8.90	7.2419	6.0650*	6.4309*	—	—	—
Mar	9.12	7.2106*	5.9571*	6.3139*	—	—	—
Apr	8.33	6.4925*	5.8133*	6.0769*	—	—	—
May	3.00	5.5356*	5.7433*	5.7797*	—	—	—
Jun	3.09†	4.9000*	5.6892*	5.4933*	—	—	—
Jul	4.75	4.7331*	5.5679*	5.2556*	—	—	—
Aug	5.67	4.7575*	5.3067*	5.0261*	—	—	—
Sep	5.67	4.9019*	4.8125*	4.7548*	—	—	—
Oct	4.78	4.8250	4.3504*	4.5144*	—	—	—
Nov	3.44	4.5500	4.2242*	4.3898*	—	—	—
Dec	4.93	4.3206	4.3288*	4.3288*	—	—	—
1983 Jan	4.80	4.0481	4.3617	4.2236	—	—	—
Feb	3.30	3.8300	4.2329	4.0706	—	—	—
Mar	2.86	3.7356	3.9792	3.9166	—	—	—
Apr	3.50	3.8006	3.7417	3.8018	—	—	—
May	4.80	3.8925	3.5242	3.6769	—	—	—
Jun	3.80	3.8563	3.2883	3.4875	—	—	—
Jul	4.83	3.6763	3.0375	3.2426	—	—	—
Aug	2.50	3.1338	2.9208	3.0048	—	—	—
Sep	2.75	2.6044	2.9892	2.8247	—	—	—
Oct	2.00	2.1563	3.0292	2.6773	—	—	—
Nov	1.00	1.9019	2.9138	2.5536	—	—	—
Dec	1.71	2.1056	2.7933	2.5157	—	—	—
1984 Jan	2.00	2.4281	2.6188	2.5401	—	—	—
Feb	3.30	2.8419	2.4496	2.5952	—	—	—
Mar	4.50	3.1556	2.3175	2.6165	—	—	—
Apr	2.82	3.0594	2.1421	2.5352	3.54	—	—
May	2.71	2.8319	2.0754	2.3977	3.10	—	—
Jun	3.00	2.4063	2.0454	2.1996	2.70	—	—
Jul	1.44	1.8300	1.9458	1.9292	1.77	—	—
Aug	1.83	1.4244	1.7800	1.6225	1.43	—	—
Sep	0.25	1.0213	1.5242	1.3214	0.25	—	—
Oct	0.29	0.7838	1.2933	1.0958	0.71	1.3571	1.1440
Nov	1.11	0.7525	1.1696	0.9664	1.11	1.1813	0.9936
Dec	0.88	0.7213	1.0563	0.8917	0.79	1.0604	0.9107

† = interpolated value.

\* = data based on interpolated value.

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	g <sub>GD</sub>	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
1985 Jan	0.44	0.7569	0.9904	0.8778	0.44	0.9933	0.8921
Feb	0.88	0.8506	0.9504	0.9098	1.02	0.9613	0.9217
Mar	0.78	0.9419	0.9142	0.9580	0.78	0.9417	0.9649
Apr	1.00	1.0944	0.9438	1.0133	0.83	0.9671	1.0120
May	1.56	1.2319	0.9621	1.0467	1.59	0.9792	1.0475
Jun	1.43	1.2225	0.9367	1.0458	1.31	0.9554	1.0559
Jul	1.43	1.1469	0.9092	1.0114	1.55	0.9317	1.0309
Aug	0.88	0.9988	0.9300	0.9618	0.88	0.9413	0.9855
Sep	0.33	0.8319	0.9563	0.9138	0.33	0.9563	0.9405
Oct	0.92	0.7338	0.9563	0.8728	1.24	0.9542	0.8994
Nov	0.92	0.7113	0.9292	0.8346	0.87	0.9208	0.8497
Dec	0.46	0.7050	0.8379	0.7898	0.46	0.8304	0.7898
1986 Jan	0.20	0.7656	0.7725	0.7717	0.20	0.7650	0.7560
Feb	1.62	0.8719	0.7604	0.7852	1.49	0.7479	0.7546
Mar	0.67	0.8331	0.7404	0.7865	0.67	0.7279	0.7457
Apr	1.11	0.8488	0.7808	0.7888	0.89	0.7488	0.7372
May	0.80	0.8000	0.8313	0.7986	0.73	0.7846	0.7448
Jun	0.00	0.6638	0.8158	0.8017	0.00	0.7775	0.7567
Jul	1.29	0.7675	0.8238	0.8091	1.29	0.7888	0.7733
Aug	0.73	0.8038	0.7804	0.7907	0.73	0.7508	0.7643
Sep	0.00	0.8294	0.7267	0.7717	0.00	0.7025	0.7533
Oct	2.22	0.9469	0.7646	0.7853	2.07	0.7571	0.7785
Nov	0.83	0.7938	0.8479	0.8089	0.90	0.8488	0.8118
Dec	0.18	0.6731	0.9233	0.8364	0.26	0.9158	0.8403
1987 Jan	0.67	0.6881	0.9404	0.8632	0.67	0.9288	0.8645
Feb	0.11	0.7513	1.0033	0.9290	0.11	0.9758	0.9215
Mar	0.89	0.9706	1.1496	1.0518	0.89	1.1117	1.0335
Apr	1.80	1.2056	1.2379	1.1818	1.98	1.2158	1.1566
May	2.11	1.3725	1.2775	1.3018	1.84	1.2633	1.2672
Jun	0.50	1.4369	1.3633	1.4233	0.50	1.3504	1.3834
Jul	1.20	1.5975	1.5242	1.5690	1.10	1.5275	1.5358
Aug	2.33	1.7619	1.7192	1.7301	2.05	1.7346	1.7121
Sep	1.91	1.8413	1.9342	1.8851	1.94	1.9621	1.8920
Oct	2.43	2.0144	2.1933	2.0595	2.63	2.2242	2.0929
Nov	1.57	2.0556	2.3358	2.2368	1.48	2.4263	2.3161
Dec	1.50	2.2200	2.5242	2.4611	1.77	2.7254	2.6137

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	gGD	$gGD^r(S^W)$	$gGD^r(S^{B13})$
1988 Jan	3.21	2.6550	2.8438	2.7457	3.41	3.0929	2.9649
Feb	2.25	2.9538	3.1133	3.0399	2.34	3.3688	3.3093
Mar	3.91	3.4231	3.4546	3.3883	4.12	3.6833	3.6844
Apr	5.00	3.7875	3.8238	3.7648	5.04	4.0004	4.0655
May	2.33	3.9600	4.2129	4.1589	3.63	4.3713	4.4507
Jun	4.80	4.4794	4.7283	4.6206	5.89	4.8613	4.8605
Jul	4.57	4.9269	5.2438	5.1204	4.53	5.3429	5.2697
Aug	5.43	5.4938	5.7154	5.6367	5.24	5.8600	5.7163
Sep	7.00	6.2131	6.0608	6.1110	6.30	6.2646	6.1551
Oct	6.20	6.7519	6.3125	6.5266	5.88	6.4979	6.5464
Nov	7.14	7.3156	6.7392	6.9633	7.13	6.9296	6.9938
Dec	8.30	7.6756	7.2942	7.4057	7.88	7.5167	7.5050
1989 Jan	8.78	7.8688	7.7113	7.7683	8.86	7.9717	7.9904
Feb	8.00	7.9688	8.0063	8.0384	9.30	8.3225	8.3973
Mar	6.45	8.1675	8.2083	8.2557	6.87	8.6221	8.7370
Apr	8.50	8.5063	8.4325	8.4926	7.89	8.9038	9.0698
May	9.07	8.8688	8.7383	8.7539	11.14	9.2254	9.3985
Jun	11.38	9.1588	8.9233	8.9500	12.47	9.5154	9.6434
Jul	8.00	9.1750	9.0183	9.0825	8.87	9.6833	9.7775
Aug	9.08	9.2381	9.0679	9.1946	9.32	9.7100	9.8524
Sep	8.20	9.2963	9.1438	9.2964	9.41	9.7858	9.9254
Oct	10.38	9.5075	9.2213	9.3505	9.53	9.9667	9.9866
Nov	10.30	9.6444	9.1725	9.3064	11.20	9.9042	9.9404
Dec	9.58	9.4988	8.9758	9.1681	10.77	9.5567	9.7711
1990 Jan	9.78	9.2688	8.9013	9.0327	10.00	9.3700	9.5983
Feb	8.19	8.8081	9.0388	8.9490	8.80	9.4925	9.4944
Mar	8.08	8.4763	9.1571	8.8938	9.19	9.6142	9.4221
Apr	8.73	8.3738	9.1700	8.8576	9.91	9.6171	9.3417
May	7.67	8.4569	9.0079	8.8220	7.62	9.4675	9.2366
Jun	8.06	8.7719	8.8300	8.8278	7.65	9.2929	9.1878
Jul	9.53	9.1925	8.7054	8.8708	9.21	9.2383	9.2508
Aug	10.85	9.3750	8.7825	8.9516	11.92	9.2779	9.3520
Sep	9.27	9.2744	8.9604	9.0242	9.73	9.3021	9.3949
Oct	9.62	8.9900	9.0338	9.0404	9.28	9.2792	9.3891
Nov	7.17	8.7500	9.1283	9.0571	7.86	9.3092	9.4023
Dec	8.44	8.7500	9.3142	9.1289	9.92	9.4275	9.4341



MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	g <sub>GD</sub>	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
1991 Jan	7.93	8.9931	9.5996	9.2984	9.54	9.6267	9.4725
Feb	11.89	9.3713	9.8563	9.5470	10.21	9.6996	9.5007
Mar	8.65	9.5794	9.9125	9.7861	8.36	9.6046	9.5306
Apr	9.92	9.9669	9.7596	9.9598	10.19	9.4692	9.5584
May	8.75	10.4881	9.6233	10.0853	8.06	9.3317	9.5449
Jun	11.44	10.9069	9.6033	10.1530	10.05	9.1829	9.4778
Jul	13.00	11.0944	9.6892	10.1236	11.59	9.0883	9.3676
Aug	13.54	10.5869	9.5729	9.8859	11.29	9.0179	9.1876
Sep	7.93	9.5631	9.2658	9.4678	8.08	8.8625	8.9171
Oct	7.29	8.6906	9.0063	9.0160	7.68	8.5933	8.5858
Nov	6.23	8.0906	8.6771	8.5617	6.16	8.2663	8.2406
Dec	8.90	7.8788	8.2263	8.0859	8.05	7.9042	7.8870
1992 Jan	9.53	7.8175	7.6625	7.5703	9.14	7.4263	7.4864
Feb	7.50	7.3169	6.9488	7.0192	8.92	6.8354	7.0206
Mar	5.67	6.6638	6.4092	6.5405	5.92	6.3850	6.5571
Apr	6.67	6.0438	6.2479	6.1853	6.17	6.1988	6.1655
May	4.10	5.3819	6.2263	5.9007	4.23	6.1617	5.8573
Jun	5.27	5.1000	6.1350	5.6732	5.19	6.0825	5.6098
Jul	5.64	5.0406	5.8350	5.4830	4.98	5.7879	5.3847
Aug	3.77	5.0306	5.5708	5.3890	3.72	5.4521	5.2412
Sep	4.75	5.3750	5.4729	5.4190	4.84	5.2379	5.2222
Oct	6.60	5.6750	5.3125	5.4599	6.45	5.0329	5.2269
Nov	6.40	5.8544	5.1417	5.4439	6.50	4.8388	5.1662
Dec	6.54	5.8875	5.0042	5.3372	5.81	4.6746	5.0115
1993 Jan	4.69	5.5681	4.8404	5.1458	4.31	4.5463	4.7996
Feb	6.00	5.1469	4.7542	4.9258	5.69	4.5088	4.5767
Mar	4.82	4.5800	4.6083	4.6247	4.01	4.3663	4.2796
Apr	3.67	4.0550	4.3350	4.2451	3.16	4.1104	3.9355
May	3.00	3.6944	4.0271	3.8799	2.58	3.8404	3.6401
Jun	3.07	3.3513	3.7158	3.5741	2.90	3.5683	3.4226
Jul	3.91	3.1994	3.5125	3.3467	4.19	3.4133	3.2838
Aug	3.43	3.0106	3.3633	3.1679	3.61	3.2596	3.1611
Sep	1.59	2.8138	3.2038	3.0433	1.53	3.0925	3.0654
Oct	3.20	2.8113	3.0629	2.9847	3.62	2.9871	3.0196
Nov	2.41	2.8394	2.9408	2.9476	2.85	2.8888	2.9636
Dec	3.06	3.0088	2.8217	2.8983	2.93	2.7913	2.8726

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	g <sub>GD</sub>	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
1994 Jan	3.29	3.1313	2.7025	2.8321	3.47	2.6971	2.7624
Feb	3.82	3.0544	2.5950	2.7494	2.84	2.5888	2.6462
Mar	3.17	2.7881	2.5546	2.6468	2.85	2.5421	2.5358
Apr	1.94	2.4456	2.5883	2.5381	1.79	2.5583	2.4369
May	1.80	2.1800	2.5746	2.4362	1.59	2.5004	2.3517
Jun	1.41	2.0200	2.4917	2.3479	1.55	2.4100	2.2996
Jul	2.71	2.1475	2.3438	2.2613	3.28	2.2850	2.2557
Aug	2.05	2.2394	2.2038	2.1884	1.92	2.2067	2.2260
Sep	2.00	2.3088	2.1183	2.1560	2.10	2.1904	2.2290
Oct	3.60	2.3031	2.0433	2.1318	3.44	2.1354	2.2214
Nov	1.68	2.1075	1.9783	2.0714	1.64	2.0800	2.1728
Dec	1.80	2.0081	1.9388	1.9854	1.97	2.0396	2.0934
1995 Jan	1.00	1.8819	1.8633	1.8870	1.43	1.9358	1.9901
Feb	2.75	1.8219	1.7504	1.7799	3.00	1.8058	1.8740
Mar	2.19	1.7181	1.6496	1.6505	2.30	1.7058	1.7313
Apr	1.12	1.5150	1.5283	1.5027	1.02	1.5738	1.5613
May	1.06	1.3431	1.4379	1.3923	1.03	1.4829	1.4285
Jun	1.20	1.1444	1.3808	1.3169	1.14	1.4358	1.3359
Jul	1.11	1.0925	1.3379	1.2503	1.20	1.3788	1.2539
Aug	0.94	1.1081	1.2450	1.1770	0.88	1.2517	1.1669
Sep	0.69	1.1388	1.0988	1.1127	0.74	1.0800	1.0942
Oct	2.00	1.1975	1.0029	1.0716	1.63	0.9813	1.0541
Nov	1.11	1.1281	0.9442	1.0173	1.27	0.9279	1.0074
Dec	1.00	1.0319	0.9042	0.9472	1.21	0.8896	0.9410
1996 Jan	0.77	0.8900	0.8792	0.8799	0.82	0.8588	0.8678
Feb	0.75	0.7225	0.8879	0.8302	0.56	0.8550	0.8075
Mar	0.68	0.6400	0.8883	0.7871	0.62	0.8446	0.7557
Apr	0.33	0.5950	0.7858	0.7251	0.33	0.7529	0.6902
May	0.44	0.6594	0.6929	0.6830	0.44	0.6688	0.6415
Jun	0.86	0.7313	0.6758	0.6789	0.81	0.6363	0.6262
Jul	0.85	0.7425	0.6538	0.6777	0.79	0.6054	0.6207
Aug	1.41	0.7450	0.6288	0.6628	1.20	0.5954	0.6134
Sep	0.23	0.6431	0.6258	0.6400	0.17	0.6117	0.6051
Oct	0.00	0.5663	0.6808	0.6442	0.00	0.6746	0.6245
Nov	0.88	0.5744	0.7483	0.6738	0.88	0.7596	0.6749
Dec	0.82	0.5794	0.7879	0.7044	0.82	0.8117	0.7284

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	g <sub>GD</sub>	g <sub>GD</sub> <sup>r</sup> (S <sup>W</sup> )	g <sub>GD</sub> <sup>r</sup> (S <sup>B13</sup> )
1997 Jan	0.42	0.6619	0.8075	0.7382	0.47	0.8396	0.7844
Feb	0.50	0.7638	0.8342	0.7984	0.67	0.9054	0.8737
Mar	0.86	0.8863	0.9475	0.9147	0.90	1.0554	1.0178
Apr	1.47	1.0094	1.1250	1.0644	1.56	1.2479	1.1893
May	0.92	1.1281	1.2713	1.2091	1.25	1.4167	1.3561
Jun	1.33	1.3025	1.4208	1.3702	1.25	1.5971	1.5411
Jul	0.85	1.4781	1.5704	1.5532	1.02	1.7700	1.7498
Aug	2.05	1.7394	1.7142	1.7409	2.55	1.9229	1.9587
Sep	2.31	2.0288	1.9233	1.9373	2.42	2.1438	2.1706
Oct	2.18	2.1963	2.1192	2.1272	2.37	2.3988	2.3908
Nov	2.21	2.3381	2.2883	2.3127	2.56	2.6071	2.6109
Dec	3.08	2.4919	2.5217	2.5121	3.47	2.8417	2.8341
1998 Jan	1.75	2.5931	2.8662	2.7522	1.97	3.1988	3.0920
Feb	2.62	2.8188	3.2412	3.0470	2.84	3.5688	3.3982
Mar	3.76	3.1450	3.5729	3.3830	4.03	3.9042	3.7511
Apr	3.27	3.5006	3.8108	3.7192	4.55	4.1404	4.0915
May	3.18	4.0225	4.0221	4.0569	3.26	4.3317	4.4046
Jun	4.67	4.6438	4.2375	4.4009	4.87	4.5462	4.7223
Jul	5.78	5.0950	4.3962	4.6923	5.97	4.6938	4.9905
Aug	6.12	5.4000	4.5788	4.8954	6.48	4.8450	5.1610
Sep	6.20	5.4569	4.7342	4.9935	6.54	4.9754	5.2180
Oct	4.00	5.1650	4.8338	5.0147	3.92	4.9996	5.1840
Nov	5.46	4.9844	5.0496	5.0401	5.60	5.1692*	5.1732*
Dec	5.00	4.7950	5.4108	5.1153	5.58	5.4783*	5.2076*
1999 Jan	3.64	4.6394	5.7200	5.2530	3.40	5.7096*	5.2777*
Feb	5.11	4.8669	5.8112	5.4380	5.04	5.7788*	5.4059*
Mar	5.00	5.2875	5.7467	5.6431	4.96	5.6775*	5.5607*
Apr	4.42	5.9594	5.8262	5.9173	4.20	5.7367*	5.7954*
May	7.21	6.7369	6.0479	6.2503	7.68†	5.9521*	6.0924*
Jun	9.31	7.1681	6.1638	6.5132	7.87†	6.0608*	6.3332*
Jul	8.56	7.1844	6.3400	6.6684	8.52†	6.2354*	6.5032*
Aug	5.53	6.9375	6.6421	6.7632	5.59†	6.5213*	6.6222*
Sep	5.24	6.6088	6.9925	6.8891	5.00	6.8363*	6.7585*
Oct	6.87	6.5469	7.4221	7.0973	6.88	7.2517*	6.9767*
Nov	7.91	6.7369	7.7196	7.3027	7.81	7.4904*	7.1748*
Dec	5.33	7.1019	7.8104	7.5062	5.98	7.5475*	7.3536*

† = interpolated value.

\* = data based on interpolated value.

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	g <sub>GD</sub>	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
2000 Jan	7.54	7.7506	7.9562	7.8393	7.19	7.7067*	7.6369*
Feb	8.46	8.3531	8.3046	8.3170	8.11	7.9679*	8.0193*
Mar	10.06	8.9275	8.5379	8.7381	9.45	8.1304	8.3451
Apr	9.67	9.4744	8.5708	8.9822	9.68	8.1362	8.5045
May	9.10	9.8131	8.5596	9.0970	7.93	8.1108	8.5478
Jun	9.60	9.8412	8.6075	9.1328	8.99	8.1125	8.5319
Jul	11.77	9.6488	8.7196	9.0592	11.22	8.1417	8.4207
Aug	10.68	9.0700	8.6975	8.8076	9.16	8.0658	8.1512
Sep	5.69	8.2038	8.5446	8.4566	5.33	7.8729	7.7980
Oct	7.21	7.7244	8.3900	8.1603	6.69	7.6879	7.5055
Nov	7.30	7.3812	8.2362	7.9412	7.39	7.5788	7.3060
Dec	7.09	7.3519	8.2083	7.8201	6.44	7.5725	7.1868
2001 Jan	8.47	7.6144	8.0533	7.7498	7.43	7.3750	7.0925
Feb	7.00	7.6056	7.7846	7.7313	6.05	7.1100	7.0615
Mar	7.85	7.8675	7.9529	7.8981	6.88	7.2846	7.2171
Apr	8.17	8.0125	8.2846	8.1515	7.81	7.5842	7.4518
May	6.91	8.1712	8.4342	8.3811	7.18	7.6704	7.6440
Jun	11.12	8.6794	8.6108	8.6145	9.59	7.7362	7.8101
Jul	6.53	8.8550	8.7971	8.8359	5.88	7.8633	7.9682
Aug	9.47	9.2162	8.9446	9.0620	8.14	8.0012	8.1399
Sep	10.94	9.5575	9.0521	9.2466	10.54	8.0796	8.2583
Oct	9.92	9.5619	9.1167	9.3336	8.67	8.0912	8.2642
Nov	8.18	9.6106	9.3417	9.4151	7.48	8.1600	8.2353
Dec	10.45	9.5450	9.3942	9.4504	7.93	8.1200	8.1849
2002 Jan	9.58	9.3631	9.3250	9.4222	8.99	8.0454	8.1106
Feb	9.43	9.3494	9.3529	9.3569	7.80	8.0642	8.0086
Mar	8.00	9.3006	9.2792	9.2602	7.01	7.9362	7.8679
Apr	9.57	9.2388	9.1471	9.1885	7.96	7.7567	7.7602
May	10.91	9.2000	9.0254	9.0971	8.68	7.6767	7.6841
Jun	8.38	8.9950	8.7750	8.8954	7.13	7.5588	7.5644
Jul	7.61	8.8388	8.4921	8.6541	6.55	7.3550	7.4127
Aug	9.06	8.6731	8.2567	8.4264	7.92	7.1292	7.2597
Sep	9.58	8.3200	7.9700	8.1323	7.69	6.8958	7.0632
Oct	8.11	7.9319	7.6679	7.7469	7.21	6.6404	6.7926
Nov	7.07	7.4081	7.2446	7.2945	7.02	6.3033	6.4532
Dec	5.55	6.7812	6.8692	6.8790	5.56	6.0058	6.1032

\* = data based on interpolated value.

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	gGD	$gGD^r(S^W)$	$gGD^r(S^{B13})$
2003 Jan	7.69	6.3669	6.6954	6.5433	6.47	5.8821	5.7948
Feb	5.67	5.8950	6.5312	6.2309	4.90	5.7625	5.5066
Mar	4.88	5.5588	6.1633	5.9198	4.31	5.4600	5.2188
Apr	5.44	5.4556	5.7433	5.6582	4.53	5.0979	4.9628
May	4.88	5.4138	5.4200	5.4553	4.02	4.7771	4.7540
Jun	5.40	5.4612	5.2033	5.2866	4.65	4.5508	4.6004
Jul	6.42	5.4450	4.9479	5.0883	6.06	4.3338	4.4482
Aug	6.31	5.1381	4.6829	4.8439	5.54	4.1412	4.2622
Sep	3.50	4.6394	4.5546	4.5988	2.81	4.0746	4.0819
Oct	4.11	4.1956	4.4092	4.3511	3.36	4.0271	3.9285
Nov	3.31	3.8256	4.2942	4.1370	3.11	4.0071	3.8219
Dec	4.11	3.6600	4.1917	3.9588	4.02	3.9329	3.7269
2004 Jan	3.00	3.5850	4.0038	3.8017	2.80	3.7517	3.6296
Feb	4.00	3.6162	3.7521	3.6826	3.95	3.5467	3.5691
Mar	3.47	3.6306	3.5608	3.6072	3.66	3.4154	3.5432
Apr	3.36	3.6488	3.5308	3.5770	4.04	3.4208	3.5279
May	4.20	3.6913	3.5671	3.5708	4.03	3.4892	3.5060
Jun	3.62	3.5350	3.4712	3.5185	2.86	3.4142	3.4342
Jul	3.69	3.4681	3.3529	3.4276	3.50	3.3075	3.3392
Aug	3.00	3.3831	3.2808	3.3255	3.18	3.2433	3.2390
Sep	2.22	3.2269	3.1492	3.2098	2.02	3.1050	3.1207
Oct	4.67	3.2288	3.0529	3.0972	4.32	2.9579	3.0039
Nov	3.62	3.0294	2.9462	2.9485	3.85	2.8142	2.8647
Dec	1.50	2.7212	2.8658	2.8034	1.50	2.7583	2.7375
2005 Jan	2.77	2.5825	2.8317	2.7154	2.76	2.7221	2.6416
Feb	2.50	2.3794	2.8104	2.6702	2.45	2.6579	2.5634
Mar	1.81	2.3806	2.7875	2.6432	1.84	2.6304	2.5077
Apr	2.71	2.5625	2.5846	2.5772	2.33	2.4608	2.4239
May	2.29	2.7050	2.3179	2.4956	2.29	2.2021	2.3238
Jun	3.60	2.8206	2.3279	2.4772	3.26	2.1975	2.2893
Jul	2.89	2.6825	2.3725	2.4432	2.23	2.2388	2.2559
Aug	3.29	2.3744	2.2238	2.3153	2.91	2.0900	2.1495
Sep	1.38	2.0813	2.1088	2.1495	1.63	1.9638	2.0124
Oct	0.64	1.8356	2.0800	2.0097	0.64	1.9483	1.9026
Nov	1.25	1.7644	2.0638	1.9258	1.32	1.9808	1.8544
Dec	4.11	1.7850	1.9342	1.8332	3.92	1.8942	1.8005

MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	gGD	$gGD^r(S^W)$	$gGD^r(S^{B13})$
2006 Jan	1.23	1.6694	1.7467	1.7041	1.33	1.7467	1.7079
Feb	0.47	1.6025	1.5788	1.5940	0.31	1.6188	1.6247
Mar	1.08	1.5744	1.4767	1.5458	0.95	1.5204	1.5913
Apr	2.75	1.5563	1.5025	1.5338	2.85	1.5358	1.5942
May	1.86	1.5188	1.5625	1.4938	2.55	1.5908	1.5640
Jun	0.92	1.3969	1.4779	1.4131	0.92	1.5092	1.4789
Jul	1.07	1.2831	1.4088	1.3788	1.03	1.4438	1.4322
Aug	1.08	1.2175	1.4792	1.4098	1.04	1.5142	1.4501
Sep	1.14	1.2825	1.4917	1.4250	1.14	1.5308	1.4514
Oct	1.50	1.4575	1.3650	1.3966	1.50	1.4000	1.4040
Nov	1.83	1.5781	1.2104	1.3517	1.78	1.2125	1.3368
Dec	1.50	1.5769	1.1675	1.3177	1.50	1.1479	1.2929
2007 Jan	2.18	1.4650	1.1621	1.2637	2.18	1.1513	1.2422
Feb	1.21	1.1988	1.1417	1.1722	1.15	1.1317	1.1527
Mar	0.64	0.9375	1.0975	1.0576	0.51	1.0867	1.0410
Apr	0.15	0.7644	1.0088	0.9384	0.15	0.9979	0.9278
May	0.75	0.7163	0.8846	0.8283	0.75	0.8758	0.8252
Jun	1.00	0.7331	0.7633	0.7300	1.17	0.7567	0.7322
Jul	0.86	0.7100	0.6313	0.6328	0.86	0.6246	0.6359
Aug	0.80	0.6319	0.5092	0.5432	0.74	0.5050	0.5465
Sep	0.36	0.4769	0.4621	0.4765	0.36	0.4658	0.4811
Oct	0.15	0.3419	0.4521	0.4220	0.15	0.4613	0.4264
Nov	0.20	0.2613	0.4250	0.3673	0.20	0.4342	0.3694
Dec	0.22	0.2438	0.3808	0.3190	0.22	0.3829	0.3179
2008 Jan	0.29	0.2488	0.3217	0.2819	0.29	0.3167	0.2794
Feb	0.17	0.2556	0.2525	0.2528	0.17	0.2500	0.2519
Mar	0.55	0.2781	0.2042	0.2314	0.55	0.2042	0.2314
Apr	0.00	0.2444	0.1904	0.2149	0.00	0.1904	0.2149
May	0.25	0.2244	0.1992	0.2042	0.25	0.1992	0.2042
Jun	0.44	0.1913	0.1975	0.1899	0.44	0.1975	0.1899
Jul	0.00	0.1250	0.1792	0.1669	0.00	0.1792	0.1669
Aug	0.00	0.1169	0.1629	0.1456	0.00	0.1629	0.1456
Sep	0.00	0.1088	0.1329	0.1273	0.00	0.1329	0.1273
Oct	0.18	0.1206	0.1100	0.1156	0.18	0.1100	0.1156
Nov	0.38	0.1375	0.0996	0.1035	0.38	0.0996	0.1035
Dec	0.00	0.1069	0.0858	0.0875	0.00	0.0858	0.0875

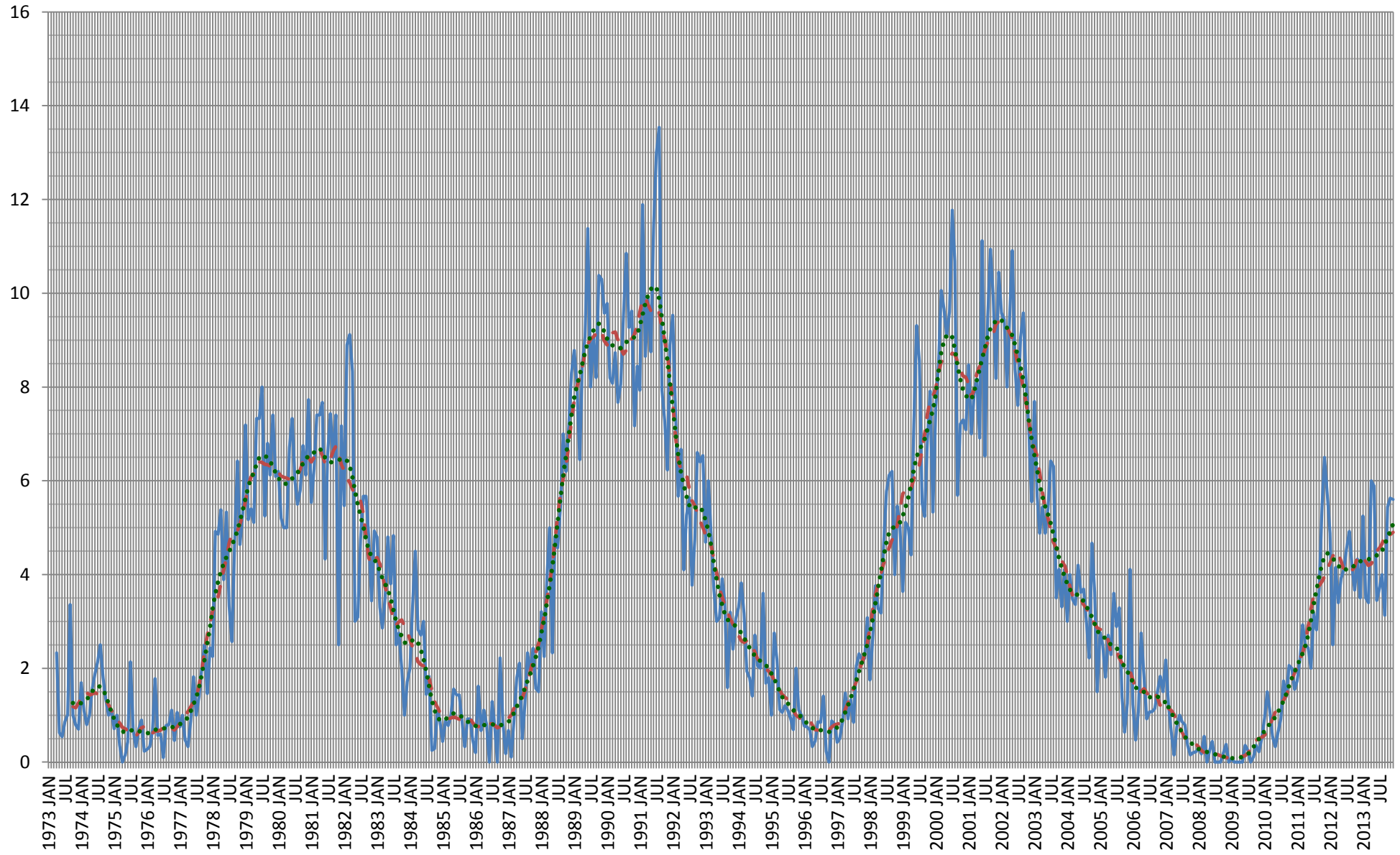
MONTH	g	$g^r(S^{HBm})$	$g^r(S^W)$	$g^r(S^{B13})$	g <sub>GD</sub>	$g_{GD}^r(S^W)$	$g_{GD}^r(S^{B13})$
2009 Jan	0.07	0.0763	0.0929	0.0830	0.07	0.0929	0.0830
Feb	0.00	0.0369	0.1033	0.0846	0.00	0.1033	0.0846
Mar	0.00	0.0313	0.1079	0.0859	0.00	0.1079	0.0859
Apr	0.00	0.0650	0.1200	0.0930	0.00	0.1200	0.0930
May	0.00	0.0988	0.1208	0.1067	0.00	0.1208	0.1067
Jun	0.36	0.1438	0.1350	0.1316	0.36	0.1421	0.1342
Jul	0.25	0.1663	0.1913	0.1704	0.25	0.2054	0.1774
Aug	0.00	0.1713	0.2892	0.2314	0.00	0.3158	0.2467
Sep	0.11	0.2075	0.3975	0.3177	0.11	0.4433	0.3469
Oct	0.36	0.2875	0.4663	0.4103	0.36	0.5188	0.4534
Nov	0.22	0.4388	0.5029	0.4970	0.22	0.5554	0.5533
Dec	0.50	0.6469	0.5283	0.5790	0.67	0.5846	0.6480
2010 Jan	0.92	0.8269	0.5679	0.6604	0.92	0.6333	0.7416
Feb	1.50	0.9194	0.6679	0.7433	1.80	0.7396	0.8330
Mar	1.10	0.8869	0.7938	0.8123	1.26	0.8808	0.9076
Apr	0.55	0.7881	0.9183	0.8742	0.55	1.0208	0.9724
May	0.33	0.7600	1.0633	0.9594	0.33	1.1588	1.0543
Jun	0.64	0.8356	1.1813	1.0649	0.73	1.2688	1.1554
Jul	0.92	1.0538	1.2588	1.1808	1.05	1.3533	1.2706
Aug	1.73	1.3506	1.3208	1.3064	1.75	1.4146	1.3955
Sep	1.40	1.5625	1.4254	1.4555	1.75	1.5354	1.5526
Oct	2.06	1.7281	1.5829	1.6262	2.08	1.7563	1.7517
Nov	2.00	1.8125	1.7521	1.7887	1.81	2.0388	1.9768
Dec	1.55	1.8875	1.8967	1.9243	1.72	2.2733	2.1975
2011 Jan	1.73	2.0331	2.0475	2.0535	1.90	2.4413	2.4069
Feb	2.18	2.2025	2.1871	2.1853	2.29	2.5908	2.6178
Mar	2.93	2.3531	2.3283	2.3188	3.67	2.7654	2.8354
Apr	2.50	2.4613	2.5646	2.4820	3.44	3.0763	3.0879
May	2.44	2.5300	2.8925	2.7091	4.22	3.5346	3.3999
Jun	2.00	2.6331	3.2533	3.0120	2.47	3.9850	3.7515
Jul	3.18	2.9619	3.5579	3.3549	3.34	4.3167	4.1153
Aug	2.82	3.4825	3.7025	3.6725	3.05	4.4817	4.4539
Sep	3.70	4.1638	3.7667	3.9596	4.64	4.5467	4.7552
Oct	5.43	4.8400	3.8550	4.2185	6.65	4.6225	5.0153
Nov	6.50	5.1188	3.9542	4.3923	8.24	4.6692	5.1646
Dec	5.71	5.0431	4.1038	4.4560	6.10	4.7563	5.1857

<b>MONTH</b>	<b>g</b>	<b><math>g^r(S^{HBm})</math></b>	<b><math>g^r(S^W)</math></b>	<b><math>g^r(S^{B13})</math></b>	<b>g<sub>GD</sub></b>	<b><math>g_{GD}^r(S^W)</math></b>	<b><math>g_{GD}^r(S^{B13})</math></b>
<b>2012 Jan</b>	<b>4.88</b>	<b>4.6425</b>	<b>4.2492</b>	<b>4.4182</b>	<b>5.48</b>	<b>4.8833</b>	<b>5.1038</b>
<b>Feb</b>	<b>2.50</b>	<b>4.1081</b>	<b>4.3942</b>	<b>4.3459</b>	<b>2.67</b>	<b>5.0329</b>	<b>4.9836</b>
<b>Mar</b>	<b>4.15</b>	<b>3.8575</b>	<b>4.5000</b>	<b>4.2795</b>	<b>4.85</b>	<b>5.1338</b>	<b>4.8660</b>
<b>Apr</b>	<b>3.40</b>	<b>3.7794</b>	<b>4.4450</b>	<b>4.1943</b>	<b>4.08</b>	<b>5.0496</b>	<b>4.7306</b>
<b>May</b>	<b>3.92</b>	<b>3.9406</b>	<b>4.2813</b>	<b>4.1190</b>	<b>4.70</b>	<b>4.8142</b>	<b>4.6056</b>
<b>Jun</b>	<b>4.11</b>	<b>4.1756</b>	<b>4.0988</b>	<b>4.0873</b>	<b>4.08</b>	<b>4.5667</b>	<b>4.5389</b>
<b>Jul</b>	<b>4.56</b>	<b>4.2825</b>	<b>4.0221</b>	<b>4.1133</b>	<b>4.78</b>	<b>4.4804</b>	<b>4.5569</b>
<b>Aug</b>	<b>4.92</b>	<b>4.3494</b>	<b>4.0792</b>	<b>4.1683</b>	<b>5.20</b>	<b>4.5350</b>	<b>4.6155</b>
<b>Sep</b>	<b>4.14</b>	<b>4.2325</b>	<b>4.0896</b>	<b>4.1732</b>	<b>4.91</b>	<b>4.5388</b>	<b>4.6227</b>
<b>Oct</b>	<b>3.67</b>	<b>4.1713</b>	<b>4.1667</b>	<b>4.1778</b>	<b>4.36</b>	<b>4.5979</b>	<b>4.6210</b>
<b>Nov</b>	<b>4.33</b>	<b>4.1269</b>	<b>4.3571</b>	<b>4.2344</b>	<b>4.88</b>	<b>4.7800</b>	<b>4.6719</b>
<b>Dec</b>	<b>3.50</b>	<b>4.0388</b>	<b>4.4117</b>	<b>4.2827</b>	<b>3.52</b>	<b>4.8804</b>	<b>4.7368</b>
<b>2013 Jan</b>	<b>5.25</b>	<b>4.1956</b>	<b>4.3488</b>	<b>4.3018</b>	<b>5.99</b>	<b>4.8596</b>	<b>4.7786</b>
<b>Feb</b>	<b>3.50</b>	<b>4.3231</b>	<b>4.2750</b>	<b>4.3079</b>	<b>3.47</b>	<b>4.7988</b>	<b>4.7988</b>
<b>Mar</b>	<b>3.40</b>	<b>4.4581</b>	<b>4.1946</b>	<b>4.3232</b>	<b>4.14</b>	<b>4.6796</b>	<b>4.8134</b>
<b>Apr</b>	<b>6.00</b>	<b>4.6706</b>	<b>4.2263</b>	<b>4.3663</b>	<b>6.21</b>	<b>4.6808</b>	<b>4.8581</b>
<b>May</b>	<b>5.89</b>	<b>4.6019</b>	<b>4.3542</b>	<b>4.3964</b>	<b>6.94</b>	<b>4.8317</b>	<b>4.9073</b>
<b>Jun</b>	<b>3.45</b>	<b>4.3206</b>	<b>4.4958</b>	<b>4.4073</b>	<b>4.25</b>	<b>5.0213</b>	<b>4.9389</b>
<b>Jul</b>	<b>3.71</b>	<b>4.1669</b>	<b>4.5729</b>	<b>4.4303</b>	<b>4.11</b>	<b>5.1571</b>	<b>4.9807</b>
<b>Aug</b>	<b>4.00</b>	<b>4.1138</b>	<b>4.6563</b>	<b>4.5022</b>	<b>4.41</b>	<b>5.2563</b>	<b>5.0644</b>
<b>Sep</b>	<b>3.13</b>	<b>4.2856</b>	<b>4.8479</b>	<b>4.6441</b>	<b>2.84</b>	<b>5.4621</b>	<b>5.2265</b>
<b>Oct</b>	<b>5.44</b>	<b>4.7469</b>	<b>4.9133</b>	<b>4.7928</b>	<b>6.46</b>	<b>5.5571</b>	<b>5.4132</b>
<b>Nov</b>	<b>5.63</b>	<b>5.1031</b>	<b>4.8513</b>	<b>4.9272</b>	<b>6.40</b>	<b>5.4979</b>	<b>5.5797</b>
<b>Dec</b>	<b>5.60</b>	<b>5.3469</b>	<b>4.9000</b>	<b>5.0766</b>	<b>6.55</b>	<b>5.5546</b>	<b>5.7596</b>



OBSERVED and SMOOTHED **GDSO ACTIVE AREAS** (g and g[SW] and g[SB13]) 1973-2013

SOLID = OBSERVED, DASHED = SW, DOTTED = SB13



CORRECTED and SMOOTHED **GDSO ACTIVE AREAS** (gGD, gGD[SW] and gGD[SB13]) 1984-2013

SOLID = CORRECTED, DASHED = SW, DOTTED = SB13

