



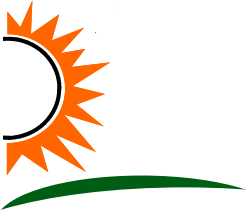
***Georgi Dobrovolski
Solar Observatory***

***OBSERVED, CORRECTED
& SMOOTHED
INTER-SOL INDICES
1973 - 2013***

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

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**Third 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^{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^{W}) are computed as:

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

Data suffixed (S^{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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PLEASE NOTE:

Inter-Sol Indices could not be corrected until 1993.

Some smoothed values differ from GDSO Annual Reports, but not by more than ± 0.05 .

This publication includes previously unpublished data.



Observed GDSO Inter-Sol Indices (IS) are corrected for seeing conditions and seasonal effects to create the Corrected GDSO Inter-Sol Indices (IS_{GD}).

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

DEFINITIONS:

$$IS_{GD} = k(gr + f),$$

where f = number of sunspots,

gr = number of sunspot regions with two or more sunspots.

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

IS = observed Inter-Sol Index, same as above, but k = 1.

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1973 Apr	8.33	—	—	—	—	—	—
May	3.13	—	—	—	—	—	—
Jun	1.00	—	—	—	—	—	—
Jul	1.07	3.26	—	—	—	—	—
Aug	3.07	3.65	—	—	—	—	—
Sep	9.00	4.27	—	—	—	—	—
Oct	3.14	4.14	3.55	3.65	—	—	—
Nov	4.43	3.90	3.59	3.63	—	—	—
Dec	1.75	3.23	3.82	3.72	—	—	—
1974 Jan	2.62	3.11	4.32	3.92	—	—	—
Feb	3.70	3.43	4.77	4.18	—	—	—
Mar	0.87	3.89	4.80	4.44	—	—	—
Apr	9.25	4.99	4.78	4.80	—	—	—
May	3.14	5.50	4.81	5.14	—	—	—
Jun	6.56	6.12	4.70	5.35	—	—	—
Jul	7.63	6.54	4.64	5.41	—	—	—
Aug	7.33	6.20	4.55	5.25	—	—	—
Sep	5.40	5.60	4.50	4.91	—	—	—
Oct	6.11	4.62	4.11	4.33	—	—	—
Nov	2.30	3.45	3.61	3.64	—	—	—
Dec	1.33	2.52	3.27	2.99	—	—	—
1975 Jan	1.43	1.88	2.97	2.45	—	—	—
Feb	2.71	1.42	2.70	2.08	—	—	—
Mar	0.73	1.08	2.31	1.81	—	—	—
Apr	0.00	1.15	1.95	1.66	—	—	—
May	0.43	1.48	1.85	1.71	—	—	—
Jun	1.14	1.88	1.88	1.89	—	—	—
Jul	5.71	2.46	1.88	2.04	—	—	—
Aug	3.00	2.58	1.82	2.09	—	—	—
Sep	0.33	2.39	1.84	2.10	—	—	—
Oct	2.50	2.30	2.11	2.19	—	—	—
Nov	3.50	2.02	2.31	2.23	—	—	—
Dec	0.92	1.85	2.42	2.21	—	—	—

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1976 Jan	1.73	2.02	2.29	2.14	—	—	—
Feb	1.00	2.05	2.04	2.10	—	—	—
Mar	2.89	2.32	2.09	2.17	—	—	—
Apr	4.33	2.46	2.22	2.22	—	—	—
May	0.86	2.28	2.18	2.21	—	—	—
Jun	3.40	2.23	2.24	2.24	—	—	—
Jul	0.30	2.05	2.42	2.32	—	—	—
Aug	2.44	2.09	2.65	2.44	—	—	—
Sep	2.10	2.39	2.76	2.58	—	—	—
Oct	3.78	2.63	2.53	2.62	—	—	—
Nov	1.31	2.97	2.46	2.68	—	—	—
Dec	4.59	3.21	2.70	2.82	—	—	—
1977 Jan	2.42	3.10	2.93	2.96	—	—	—
Feb	5.75	2.97	3.22	3.10	—	—	—
Mar	0.69	2.82	3.80	3.34	—	—	—
Apr	1.08	2.78	4.43	3.77	—	—	—
May	2.50	3.39	4.86	4.34	—	—	—
Jun	7.36	4.50	5.24	4.97	—	—	—
Jul	1.91	5.70	5.85	5.72	—	—	—
Aug	7.90	7.01	7.29	6.89	—	—	—
Sep	10.62	8.02	9.08	8.41	—	—	—
Oct	10.38	8.61	11.12	10.14	—	—	—
Nov	4.92	10.28	13.70	12.27	—	—	—
Dec	10.00	12.61	15.74	14.66	—	—	—
1978 Jan	11.85	16.21	17.06	17.11	—	—	—
Feb	30.75	21.07	17.78	19.19	—	—	—
Mar	18.57	24.32	19.03	20.98	—	—	—
Apr	32.38	26.53	20.76	22.64	—	—	—
May	33.11	26.03	21.90	23.67	—	—	—
Jun	25.50	24.46	22.94	23.98	—	—	—
Jul	15.56	23.21	24.83	24.20	—	—	—
Aug	11.43	22.25	26.78	24.89	—	—	—
Sep	37.14	23.31	27.76	25.86	—	—	—
Oct	25.50	24.56	28.04	26.71	—	—	—
Nov	17.09	27.05	27.68	27.51	—	—	—
Dec	22.77	30.10	28.06	28.92	—	—	—

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1979 Jan	44.38	32.89	29.28	30.67	—	—	—
Feb	45.17	34.14	30.82	31.92	—	—	—
Mar	27.60	33.89	32.14	32.57	—	—	—
Apr	30.11	33.09	33.03	33.18	—	—	—
May	26.83	32.12	34.59	34.17	—	—	—
Jun	40.78	33.41	36.39	35.21	—	—	—
Jul	29.50	34.84	37.08	35.95	—	—	—
Aug	34.62	36.89	36.83	36.75	—	—	—
Sep	45.40	39.10	36.44	37.62	—	—	—
Oct	38.62	39.94	37.13	38.45	—	—	—
Nov	41.40	41.10	39.55	39.59	—	—	—
Dec	41.73	40.28	41.13	40.62	—	—	—
1980 Jan	41.90	39.71	41.53	41.29	—	—	—
Feb	41.80	40.62	41.27	41.48	—	—	—
Mar	21.50	41.44	40.40	41.34	—	—	—
Apr	52.80	44.43	40.88	41.77	—	—	—
May	62.14	44.78	42.16	42.35	—	—	—
Jun	43.50	42.33	42.97	42.48	—	—	—
Jul	36.33	40.66	42.90	42.29	—	—	—
Aug	21.50	39.13	42.40	42.23	—	—	—
Sep	37.80	41.28	43.35	42.90	—	—	—
Oct	57.62	44.63	44.68	43.76	—	—	—
Nov	53.25	45.95	44.28	44.14	—	—	—
Dec	49.27	45.81	43.31	44.28	—	—	—
1981 Jan	32.62	44.57	44.26	44.90	—	—	—
Feb	39.25	44.48	46.24	46.24	—	—	—
Mar	46.80	45.37	48.53	47.42	—	—	—
Apr	59.30	47.87	48.25	47.91	—	—	—
May	46.00	49.52	46.42	47.69	—	—	—
Jun	36.50	50.08	44.66	47.31	—	—	—
Jul	66.14	51.46	44.57	47.11	—	—	—
Aug	55.71	48.74	46.31	46.83	—	—	—
Sep	42.00	45.29	47.97	46.32	—	—	—
Oct	46.80	41.92	47.24	45.38	—	—	—
Nov	20.00	39.64	45.36	44.41	—	—	—
Dec	40.33	42.20	44.55*	44.01*	—	—	—

* = data based on interpolated value (June 1982).

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1982 Jan	39.32	45.53	44.44*	44.13*	—	—	—
Feb	74.50	48.01	44.24*	44.52*	—	—	—
Mar	51.38	46.59*	44.48*	44.81*	—	—	—
Apr	37.17	43.75*	44.15*	44.66*	—	—	—
May	23.00	42.36*	44.08*	44.59*	—	—	—
Jun	40.01†	43.44*	44.69*	44.80*	—	—	—
Jul	59.88	46.35*	44.28*	44.54*	—	—	—
Aug	57.17	46.88*	41.35*	43.00*	—	—	—
Sep	46.33	45.37*	37.63*	40.62*	—	—	—
Oct	34.67	41.09	35.85*	38.35*	—	—	—
Nov	30.44	36.13	36.26*	36.49*	—	—	—
Dec	44.50	32.22	36.76*	34.59*	—	—	—
1983 Jan	25.20	28.08	35.20	32.22	—	—	—
Feb	18.50	26.31	32.28	30.04	—	—	—
Mar	18.00	26.45	29.40	28.60	—	—	—
Apr	27.88	28.08	27.34	27.82	—	—	—
May	42.20	30.12	25.44	26.89	—	—	—
Jun	32.80	29.49	22.91	25.20	—	—	—
Jul	29.42	26.85	21.20	23.27	—	—	—
Aug	17.75	21.95	21.18	21.58	—	—	—
Sep	16.50	17.17	21.85	20.13	—	—	—
Oct	15.00	14.16	22.35	18.96	—	—	—
Nov	4.61	12.83	22.00	18.27	—	—	—
Dec	9.57	14.54	20.84	18.35	—	—	—
1984 Jan	19.12	18.02	19.06	18.89	—	—	—
Feb	24.20	22.13	17.73	19.54	—	—	—
Mar	28.25	25.10	16.84	19.87	—	—	—
Apr	29.73	25.12	15.68	19.42	—	—	—
May	32.00	22.67	15.12	18.19	—	—	—
Jun	15.00	17.56	14.86	16.14	—	—	—
Jul	4.67	12.18	14.01	13.57	—	—	—
Aug	10.50	8.28	12.57	10.95	—	—	—
Sep	2.25	5.11	10.65	8.49	—	—	—
Oct	1.43	4.00	8.63	6.50	—	—	—
Nov	4.78	3.87	6.59	5.13	—	—	—
Dec	3.12	3.60	5.04	4.43	—	—	—

† = interpolated value.

* = data based on interpolated value.

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1985 Jan	5.22	4.02	4.79	4.35	—	—	—
Feb	3.62	4.30	4.66	4.44	—	—	—
Mar	2.78	4.45	4.22	4.51	—	—	—
Apr	6.60	5.19	4.42	4.72	—	—	—
May	6.11	5.41	4.65	4.86	—	—	—
Jun	3.71	5.23	4.60	4.87	—	—	—
Jul	10.14	5.29	4.41	4.74	—	—	—
Aug	1.75	4.52	4.87	4.71	—	—	—
Sep	0.56	4.10	5.58	4.90	—	—	—
Oct	7.75	4.07	5.66	5.09	—	—	—
Nov	4.15	4.47	5.47	5.22	—	—	—
Dec	2.54	5.28	5.14	5.28	—	—	—
1986 Jan	1.30	6.29	4.75	5.38	—	—	—
Feb	18.50	7.28	4.53	5.46	—	—	—
Mar	4.83	6.44	4.52	5.27	—	—	—
Apr	6.56	5.54	4.57	4.85	—	—	—
May	1.70	4.11	4.63	4.45	—	—	—
Jun	0.00	2.55	4.53	4.09	—	—	—
Jul	4.57	2.74	4.47	3.77	—	—	—
Aug	2.00	2.90	3.76	3.32	—	—	—
Sep	0.00	3.25	2.98	3.03	—	—	—
Oct	9.56	3.83	3.06	3.11	—	—	—
Nov	3.92	3.26	3.82	3.42	—	—	—
Dec	0.29	2.74	4.54	3.83	—	—	—
1987 Jan	2.13	2.88	4.63	4.18	—	—	—
Feb	0.67	3.83	5.38	4.86	—	—	—
Mar	4.00	5.40	6.45	5.86	—	—	—
Apr	9.20	7.04	7.15	6.93	—	—	—
May	17.33	8.76	7.87	8.00	—	—	—
Jun	1.60	8.96	8.60	8.96	—	—	—
Jul	5.20	10.13	9.78	10.08	—	—	—
Aug	19.33	11.70	11.01	11.24	—	—	—
Sep	8.36	11.98	12.97	12.52	—	—	—
Oct	17.86	13.68	15.70	14.20	—	—	—
Nov	13.00	13.89	17.09	15.88	—	—	—
Dec	8.67	15.38	19.36	18.16	—	—	—

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1988 Jan	22.14	19.33	23.95	21.60	—	—	—
Feb	10.25	22.45	27.91	25.62	—	—	—
Mar	41.36	28.57	31.18	30.04	—	—	—
Apr	37.33	34.48	34.73	34.58	—	—	—
May	22.67	39.59	38.29	39.17	—	—	—
Jun	50.60	46.56	43.87	44.57	—	—	—
Jul	66.43	51.50	50.69	50.39	—	—	—
Aug	53.14	54.35	57.29	56.02	—	—	—
Sep	53.00	58.97	61.63	60.98	—	—	—
Oct	58.40	64.46	63.27	65.11	—	—	—
Nov	58.00	71.67	66.47	69.30	—	—	—
Dec	97.50	79.66	71.91	73.69	—	—	—
1989 Jan	97.11	82.28	74.91	76.86	—	—	—
Feb	93.67	81.12	75.93	78.48	—	—	—
Mar	62.09	79.61	79.55	80.08	—	—	—
Apr	56.00	78.06	82.95	81.92	—	—	—
May	80.64	80.50	86.01	84.19	—	—	—
Jun	123.38	86.11	87.31	85.86	—	—	—
Jul	65.63	87.03	85.46	86.22	—	—	—
Aug	78.23	90.62	83.55	86.64	—	—	—
Sep	114.90	92.61	83.48	87.37	—	—	—
Oct	78.08	89.97	85.38	87.66	—	—	—
Nov	111.80	89.65	86.60	86.83	—	—	—
Dec	74.92	84.72	84.16	84.56	—	—	—
1990 Jan	75.22	80.29	80.87	81.95	—	—	—
Feb	69.75	79.03	81.16	80.25	—	—	—
Mar	84.23	77.63	78.67	77.97	—	—	—
Apr	79.67	75.87	74.84	75.29	—	—	—
May	86.20	75.07	72.38	72.71	—	—	—
Jun	59.12	70.30	70.21	70.31	—	—	—
Jul	50.93	66.71	70.50	69.13	—	—	—
Aug	99.85	66.00	72.12	68.89	—	—	—
Sep	33.73	62.22	73.32	69.04	—	—	—
Oct	67.23	64.98	73.29	69.90	—	—	—
Nov	63.67	69.16	72.27	71.40	—	—	—
Dec	71.00	73.87	72.16	73.46	—	—	—

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1991 Jan	86.00	80.83	74.82	76.16	—	—	—
Feb	97.95	83.09	75.61	77.98	—	—	—
Mar	84.76	82.31	75.67	78.87	—	—	—
Apr	78.42	80.77	77.18	79.16	—	—	—
May	62.88	78.62	77.16	78.50	—	—	—
Jun	80.00	77.66	77.97	77.95	—	—	—
Jul	93.85	77.72	79.09	77.46	—	—	—
Aug	75.92	74.61	78.42	76.55	—	—	—
Sep	59.00	73.28	76.96	75.82	—	—	—
Oct	78.18	73.63	74.75	75.21	—	—	—
Nov	52.31	74.57	71.84	74.17	—	—	—
Dec	101.80	78.70	67.93	72.03	—	—	—
1992 Jan	82.07	77.87	63.28	68.41	—	—	—
Feb	85.83	71.91	58.55	63.51	—	—	—
Mar	61.83	61.74	54.80	57.68	—	—	—
Apr	48.33	49.37	51.99	51.41	—	—	—
May	23.00	38.57	50.17	45.72	—	—	—
Jun	26.07	31.59	46.73	40.67	—	—	—
Jul	36.27	29.50	41.16	36.32	—	—	—
Aug	19.92	29.38	36.81	33.47	—	—	—
Sep	24.94	31.64	34.08	32.37	—	—	—
Oct	44.80	33.49	32.43	32.48	—	—	—
Nov	42.00	34.08	31.60	32.75	—	—	—
Dec	29.69	34.11	31.29	32.61	—	—	—
1993 Jan	20.38	33.66	30.23	32.01	26.98	—	—
Feb	43.17	33.44	29.07	31.15	41.72	—	—
Mar	38.94	32.01	28.17	29.63	41.61	—	—
Apr	31.73	29.26	26.46	27.19	35.56	—	—
May	19.53	25.24	24.45	24.57	23.76	—	—
Jun	22.13	20.67	23.57	22.56	29.66	—	—
Jul	14.82	17.22	24.15	21.32	20.22	26.98	24.65
Aug	13.48	15.57	23.51	20.27	15.46	26.45	23.38
Sep	9.82	16.15	21.38	19.48	10.73	24.34	22.32
Oct	18.93	18.78	19.33	19.24	23.30	22.20	21.77
Nov	19.59	21.40	17.79	19.25	18.08	20.57	21.51
Dec	30.88	23.46	16.73	19.09	30.50	19.22	21.18

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1994 Jan	33.06	22.87	16.07	18.45	39.45	18.37	20.55
Feb	15.36	19.30	15.86	17.32	16.36	18.23	19.55
Mar	15.52	15.46	15.63	15.84	16.35	18.11	18.25
Apr	5.88	11.76	15.72	14.42	9.55	18.06	16.95
May	8.45	9.86	15.32	13.17	10.67	17.62	15.81
Jun	7.71	9.46	13.91	12.04	10.23	16.53	14.82
Jul	13.47	10.51	11.90	11.15	19.36	14.46	13.90
Aug	9.82	11.20	10.70	10.76	12.82	13.13	13.41
Sep	7.89	11.71	10.63	10.90	10.67	13.27	13.47
Oct	23.07	12.08	10.83	11.15	21.99	13.49	13.63
Nov	5.86	10.94	11.11	11.24	8.85	13.66	13.64
Dec	10.70	10.84	11.19	11.16	13.56	13.77	13.55
1995 Jan	5.17	10.74	10.90	11.02	6.76	13.31	13.35
Feb	14.42	11.06	10.37	10.80	17.22	12.51	13.09
Mar	14.62	11.58	9.93	10.41	18.38	11.89	12.65
Apr	11.71	10.98	9.09	9.69	12.29	11.06	11.86
May	9.22	9.90	8.39	8.94	12.05	10.37	11.01
Jun	8.95	8.11	7.93	8.18	11.50	9.74	10.06
Jul	5.33	6.66	7.50	7.31	6.95	9.21	8.99
Aug	5.24	5.66	6.93	6.39	6.06	8.58	7.89
Sep	1.75	4.89	5.99	5.52	2.65	7.45	6.84
Oct	9.08	4.67	5.10	4.82	10.06	6.42	6.03
Nov	3.11	4.05	4.41	4.22	4.14	5.64	5.35
Dec	2.38	3.60	3.91	3.74	3.26	4.99	4.80
1996 Jan	3.27	3.26	3.66	3.46	4.30	4.74	4.51
Feb	2.62	2.82	3.73	3.37	4.51	4.88	4.47
Mar	3.84	2.81	3.77	3.34	4.37	4.91	4.46
Apr	1.17	2.83	3.35	3.22	2.01	4.42	4.33
May	3.06	3.30	3.28	3.27	3.77	4.40	4.40
Jun	3.14	3.65	3.63	3.53	4.13	4.82	4.72
Jul	5.08	3.76	3.60	3.70	8.20	4.74	4.90
Aug	7.24	4.14	3.55	3.76	8.25	4.71	4.95
Sep	0.69	3.89	3.58	3.76	1.09	4.86	4.98
Oct	0.00	3.86	3.90	3.91	0.00	5.25	5.19
Nov	10.69	4.20	4.17	4.09	13.71	5.61	5.45
Dec	3.12	3.79	4.21	4.11	3.76	5.73	5.53

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
1997 Jan	1.74	3.98	4.20	4.07	1.80	5.71	5.56
Feb	3.00	4.11	4.27	4.18	6.37	6.01	5.86
Mar	4.14	4.20	5.36	4.78	6.18	7.51	6.74
Apr	8.63	4.62	6.68	5.61	9.54	9.12	7.84
May	2.00	4.85	7.38	6.42	4.68	9.83	8.86
Jun	5.17	6.37	8.34	7.57	6.30	10.72	10.18
Jul	2.90	8.02	9.36	9.02	5.48	11.81	11.81
Aug	11.14	10.70	10.22	10.53	18.07	12.60	13.37
Sep	22.81	13.70	11.88	12.18	27.42	14.09	14.88
Oct	9.53	14.63	13.46	13.73	12.15	15.80	16.26
Nov	18.14	15.62	15.16	15.35	18.60	18.00	17.83
Dec	18.69	16.54	17.19	17.02	20.39	20.58	19.63
1998 Jan	10.62	16.96	18.86	18.54	11.29	22.87	21.47
Feb	14.69	19.56	21.10	20.35	15.80	25.36	23.70
Mar	32.29	22.33	23.23	22.43	32.63	27.70	26.44
Apr	18.36	23.79	24.60	24.42	24.10	29.83	29.48
May	33.24	26.77	25.57	26.17	42.78	31.55	32.33
Jun	22.56	28.94	26.86	27.84	30.32	33.43	34.95
Jul	25.56	30.60	28.51	29.56	36.35	35.77	37.49
Aug	42.19	32.87	29.58	30.85	46.86	37.58	39.47
Sep	43.07	33.47	30.19	31.39	54.87	38.85	40.55
Oct	22.08	32.61	31.04	31.62	35.74	39.97	40.99
Nov	28.77	31.73	32.27	32.07	36.30	41.12	41.32
Dec	39.20	31.39	34.43	33.05	47.96	43.90	42.37
1999 Jan	29.64	30.69	37.27	34.48	39.74	47.89	44.24
Feb	21.22	32.14	38.83	36.11	30.75	50.54	46.51
Mar	40.57	35.88	38.44	37.81	48.15	50.95	48.98
Apr	30.42	40.05	39.29	40.06	35.50	52.93	52.45
May	50.79	45.74	42.86	43.17	59.10	58.08	57.44
Jun	56.81	48.79	45.19	45.98	80.76	61.35	62.20
Jul	59.31	49.56	45.91	47.86	81.66	62.41	65.59
Aug	45.94	50.50	47.65	49.25	64.92	64.68	68.13
Sep	29.88	50.29	50.86	50.90	46.87	68.77	70.78
Oct	55.73	52.22	55.65	53.66	91.08	74.24	74.06
Nov	80.82	53.82	59.32	56.46	104.61	79.13	76.88
Dec	43.08	54.61	60.78	58.61	58.19	81.27	78.59

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
2000 Jan	43.08	58.93	63.72	61.82	55.00	84.37	81.48
Feb	49.62	64.26	66.58	66.17	69.84	87.55	85.90
Mar	89.12	71.27	68.45	70.35	107.29	89.76	90.31
Apr	96.89	79.44	69.76	73.08	107.64	90.40	93.20
May	72.30	81.82	68.48	73.78	104.29	87.36	93.89
Jun	70.40	81.78	67.47	73.73	86.97	85.28	93.72
Jul	116.15	79.42	68.21	72.84	149.71	85.66	92.37
Aug	57.89	71.35	68.46	70.06	73.30	85.52	88.61
Sep	62.85	65.09	67.36	66.17	91.49	83.80	83.33
Oct	54.00	59.00	64.80	62.37	61.94	81.49	78.17
Nov	52.00	53.21	61.64	59.09	60.83	78.24	73.64
Dec	47.64	52.56	60.22	56.77	52.02	77.07	70.83
2001 Jan	56.18	52.97	56.64	54.60	70.15	73.39	68.80
Feb	42.46	52.73	53.21	53.23	51.34	69.19	67.90
Mar	70.10	54.90	54.96	53.83	84.45	71.91	69.90
Apr	54.33	53.51	57.06	54.99	75.15	75.62	73.20
May	39.09	52.08	58.00	56.30	58.69	78.09	76.77
Jun	69.44	55.68	59.59	58.13	104.53	81.57	80.71
Jul	31.35	57.30	61.10	60.26	43.85	84.58	84.54
Aug	60.33	63.37	62.47	62.82	78.45	86.80	88.54
Sep	102.35	69.92	62.71	64.86	151.59	87.86	91.68
Oct	64.92	70.24	62.72	65.89	90.80	88.48	93.06
Nov	63.73	70.89	64.49	66.78	91.31	90.45	93.75
Dec	73.91	68.83	64.61	66.82	105.01	89.62	93.03
2002 Jan	66.16	65.78	66.03	66.66	89.41	89.96	91.72
Feb	65.43	64.89	69.31	66.73	85.48	93.16	90.54
Mar	52.92	62.80	69.44	66.49	75.64	91.70	88.58
Apr	71.57	63.58	68.37	66.73	98.79	88.45	87.01
May	64.55	65.19	67.66	67.22	82.31	86.58	85.86
Jun	46.77	68.06	65.19	67.06	61.18	83.13	84.22
Jul	88.00	72.83	62.07	66.36	95.33	79.11	82.44
Aug	82.50	73.23	59.16	64.62	103.71	75.25	79.86
Sep	83.17	69.36	56.48	61.34	91.34	72.23	76.03
Oct	58.44	61.64	54.09	56.83	72.94	69.10	71.15
Nov	53.27	50.90	51.12	51.58	64.42	64.99	65.68
Dec	25.00	41.02	50.07	46.90	49.02	63.71	61.02

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
2003 Jan	40.23	35.34	49.03	43.03	48.98	63.32	57.29
Feb	21.67	31.70	46.09	40.04	33.28	60.75	54.48
Mar	32.38	32.52	41.83	38.13	55.32	56.47	52.70
Apr	34.72	35.97	38.75	37.52	43.92	53.55	52.16
May	30.00	39.53	37.04	37.93	38.58	52.02	52.64
Jun	56.13	42.95	35.52	38.39	74.15	49.80	53.07
Jul	53.67	43.84	34.95	38.27	73.15	48.30	52.71
Aug	46.23	41.33	34.28	37.12	64.05	47.67	51.21
Sep	17.38	36.54	33.78	35.37	28.39	46.80	48.86
Oct	50.28	33.33	32.79	33.20	65.81	45.23	46.03
Nov	20.38	28.34	32.00	30.79	34.67	44.51	43.00
Dec	21.44	25.79	30.28	28.24	25.56	42.45	39.64
2004 Jan	29.91	24.53	28.00	26.12	36.35	39.34	36.82
Feb	16.00	22.39	26.48	24.88	30.82	37.55	35.33
Mar	26.07	22.43	25.59	24.29	37.01	36.68	34.72
Apr	17.36	22.88	24.77	23.97	24.55	35.84	34.50
May	28.30	24.07	24.58	24.20	40.65	35.62	35.01
Jun	16.62	24.66	24.53	24.67	22.54	35.76	35.94
Jul	38.38	26.10	23.50	24.68	50.23	34.99	36.42
Aug	25.06	26.58	22.91	24.38	43.97	34.22	36.31
Sep	17.11	25.35	22.12	23.68	27.66	33.05	35.54
Oct	30.89	25.08	21.33	22.72	46.38	31.90	34.31
Nov	35.25	22.63	21.14	21.54	48.85	31.33	32.57
Dec	5.38	18.97	21.60	20.38	14.69	31.54	30.67
2005 Jan	21.31	16.94	21.14	19.33	28.68	30.72	28.73
Feb	10.30	15.15	20.02	18.55	20.10	28.94	27.01
Mar	12.88	15.67	19.49	18.23	19.58	27.98	25.95
Apr	11.65	17.86	18.03	17.88	14.31	25.91	24.99
May	29.29	20.13	15.82	17.39	37.31	23.01	24.08
Jun	26.70	20.72	15.11	17.01	30.96	21.96	23.54
Jul	17.33	18.77	14.78	16.25	22.05	21.23	22.70
Aug	19.14	16.13	13.74	14.92	29.48	19.56	21.20
Sep	10.38	12.63	13.02	13.33	19.11	18.25	19.30
Oct	2.55	10.04	12.81	11.80	5.29	18.03	17.49
Nov	10.67	8.83	11.88	10.37	20.35	17.15	15.74
Dec	12.78	7.70	10.00	8.97	17.84	15.08	13.91

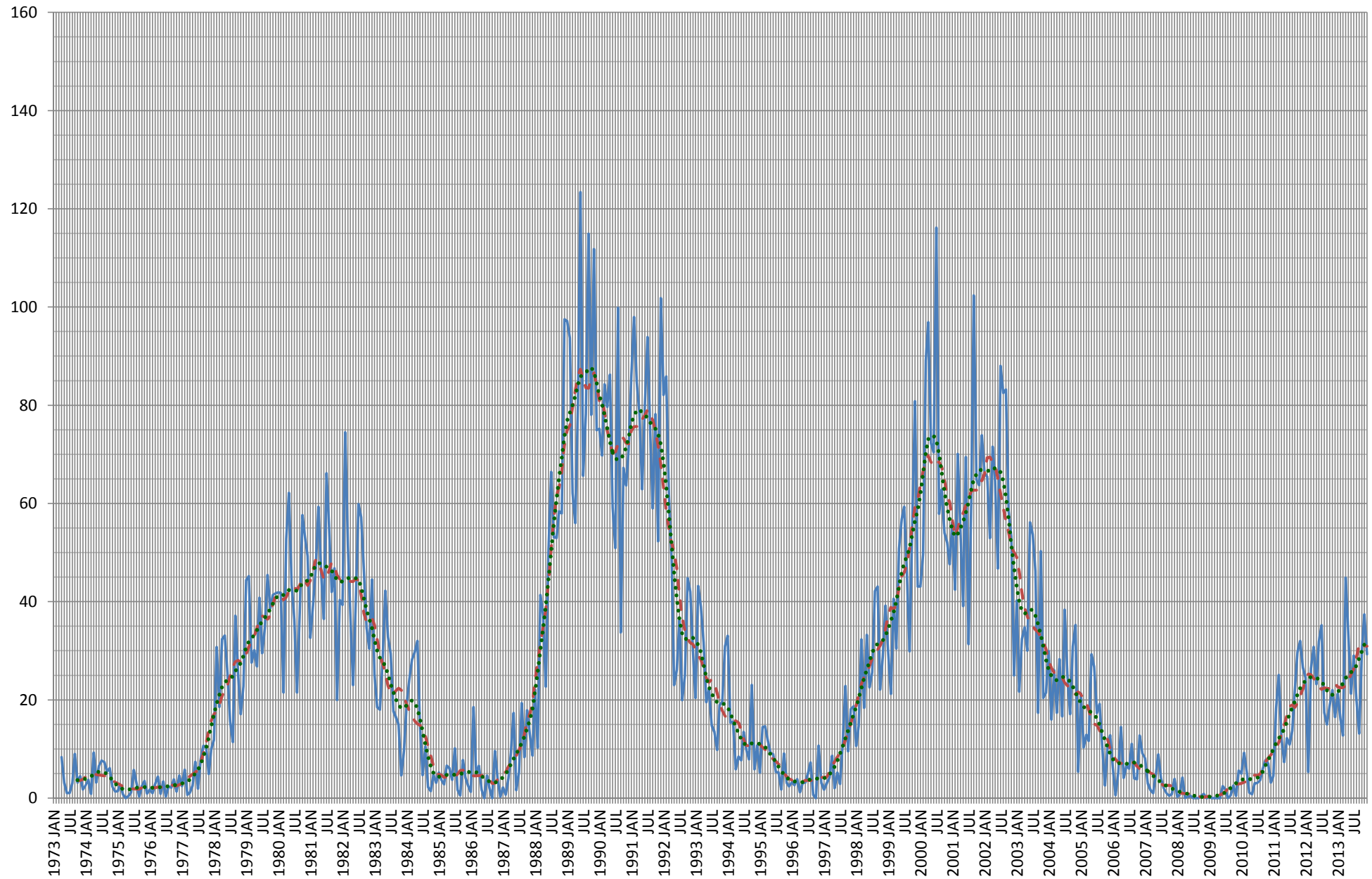
MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
2006 Jan	6.08	7.07	8.69	7.91	8.06	13.60	12.38
Feb	0.60	6.60	7.88	7.29	0.72	12.44	11.33
Mar	5.17	6.61	7.27	7.10	7.46	11.30	10.85
Apr	14.50	7.02	7.06	7.08	21.08	10.78	10.71
May	4.14	7.11	7.20	7.01	9.59	10.56	10.45
Jun	6.58	7.31	7.13	6.98	8.79	10.10	10.21
Jul	6.00	6.96	7.06	7.13	8.91	10.12	10.31
Aug	11.00	6.98	7.25	7.32	14.76	10.54	10.51
Sep	4.00	7.10	7.20	7.26	6.31	10.51	10.35
Oct	3.83	7.49	6.49	6.96	5.60	9.44	9.83
Nov	12.75	8.00	5.96	6.70	14.80	8.49	9.37
Dec	9.10	7.39	6.08	6.46	12.50	8.56	9.07
2007 Jan	8.09	6.39	6.09	6.05	13.70	8.63	8.61
Feb	3.00	4.94	5.63	5.47	5.30	8.06	7.88
Mar	1.64	3.90	5.13	4.93	2.00	7.45	7.18
Apr	1.00	3.70	4.87	4.52	1.03	7.09	6.67
May	4.83	4.07	4.23	4.07	6.78	6.32	6.13
Jun	8.90	4.41	3.51	3.62	13.35	5.43	5.57
Jul	3.93	3.85	2.97	3.19	6.03	4.57	4.93
Aug	2.00	2.95	2.55	2.77	3.95	3.84	4.30
Sep	1.00	2.10	2.56	2.48	2.31	3.79	3.84
Oct	0.46	1.45	2.62	2.24	1.02	3.86	3.43
Nov	0.80	1.34	2.39	1.97	1.00	3.58	2.95
Dec	3.89	1.64	1.85	1.66	4.91	2.80	2.43
2008 Jan	0.29	1.58	1.33	1.41	0.59	2.01	2.00
Feb	0.67	1.56	1.08	1.27	1.02	1.60	1.75
Mar	4.18	1.51	0.96	1.15	4.88	1.34	1.54
Apr	0.00	0.99	0.92	0.99	0.00	1.23	1.31
May	0.25	0.71	0.92	0.81	0.94	1.27	1.11
Jun	0.44	0.42	0.76	0.62	0.51	1.10	0.89
Jul	0.00	0.15	0.60	0.48	0.00	0.89	0.72
Aug	0.00	0.19	0.57	0.39	0.00	0.85	0.62
Sep	0.00	0.24	0.37	0.29	0.00	0.60	0.52
Oct	0.55	0.31	0.19	0.24	0.90	0.40	0.47
Nov	0.85	0.34	0.18	0.23	1.88	0.36	0.46
Dec	0.00	0.27	0.25	0.23	0.00	0.43	0.45

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
2009 Jan	0.20	0.19	0.41	0.29	0.53	0.65	0.51
Feb	0.00	0.09	0.48	0.36	0.00	0.76	0.58
Mar	0.00	0.18	0.51	0.42	0.00	0.79	0.65
Apr	0.00	0.43	0.61	0.52	0.00	0.94	0.77
May	0.00	0.67	0.68	0.66	0.00	1.02	0.95
Jun	2.43	0.97	0.89	0.87	3.12	1.27	1.22
Jul	1.75	1.12	1.33	1.15	2.63	2.01	1.68
Aug	0.00	1.08	1.91	1.54	0.00	3.22	2.41
Sep	0.56	1.39	2.51	2.07	0.86	4.48	3.44
Oct	2.55	1.94	2.77	2.57	3.65	5.08	4.48
Nov	0.44	2.90	2.85	3.01	1.04	5.24	5.41
Dec	5.57	4.24	2.90	3.40	6.89	5.32	6.25
2010 Jan	5.00	4.95	2.98	3.70	11.24	5.58	7.00
Feb	9.20	5.12	3.19	3.87	18.30	6.03	7.48
Mar	5.20	4.49	3.57	3.89	11.94	6.64	7.54
Apr	1.09	3.42	4.01	3.84	2.47	7.35	7.38
May	0.78	2.80	4.50	3.91	1.58	8.15	7.34
Jun	3.00	2.77	4.68	4.01	3.47	8.63	7.42
Jul	3.08	3.42	4.56	4.12	8.33	8.58	7.51
Aug	3.64	4.44	4.92	4.50	5.21	9.29	8.10
Sep	6.00	5.28	6.12	5.41	10.37	11.33	9.70
Oct	7.75	5.70	7.41	6.63	10.96	13.81	12.05
Nov	7.00	6.49	8.14	7.76	13.06	15.85	14.57
Dec	3.18	8.16	8.80	8.83	6.41	17.39	17.05
2011 Jan	4.55	10.41	9.51	10.01	10.50	18.54	19.58
Feb	18.27	12.93	10.25	11.19	35.94	19.74	22.01
Mar	25.07	14.41	11.33	12.16	43.46	21.40	23.91
Apr	12.13	13.88	12.91	12.99	30.36	23.87	25.31
May	7.33	12.89	14.86	14.07	22.61	26.65	26.60
Jun	12.17	12.62	16.88	15.51	19.42	29.24	27.98
Jul	10.91	13.84	18.68	17.13	20.04	31.69	29.48
Aug	13.73	17.26	18.98	18.44	22.17	31.72	30.50
Sep	21.80	21.38	18.49	19.60	33.37	30.46	31.33
Oct	29.71	24.77	19.32	21.07	47.26	31.02	32.71
Nov	32.00	25.53	20.76	22.38	43.40	32.30	34.03
Dec	26.57	24.63	22.24	23.22	38.34	33.68	34.91

MONTH	IS	IS ^r (S ^{HBm})	IS ^r (S ^W)	IS ^r (S ^{B13})	IS _{GD}	IS _{GD} ^r (S ^W)	IS _{GD} ^r (S ^{B13})
2012 Jan	24.50	23.19	24.08	23.86	37.37	35.60	35.54
Feb	5.33	21.49	25.25	24.37	9.71	36.84	35.97
Mar	26.38	22.98	25.12	24.67	39.45	36.55	36.15
Apr	30.80	25.38	24.38	24.69	47.80	35.30	35.90
May	23.17	26.67	23.51	24.49	35.81	34.12	35.36
Jun	31.89	27.53	22.68	24.21	39.41	33.10	34.73
Jul	35.22	25.93	22.12	23.70	46.08	32.08	33.81
Aug	17.42	22.94	22.44	22.97	25.99	32.11	32.67
Sep	15.00	20.74	22.32	21.90	22.56	31.72	31.12
Oct	18.89	19.43	22.33	21.10	27.99	31.23	29.83
Nov	22.00	18.36	23.34	21.05	34.49	32.29	29.60
Dec	16.50	18.34	23.32	21.18	22.64	32.67	29.79
2013 Jan	21.25	19.75	22.62	21.52	28.71	32.14	30.28
Feb	16.10	21.52	22.47	22.36	19.03	32.08	31.41
Mar	12.73	23.80	22.50	23.42	20.75	32.26	32.97
Apr	44.86	27.66	22.88	24.42	54.87	32.87	34.56
May	33.33	28.20	23.98	25.14	54.10	34.22	35.84
Jun	21.27	26.73	25.15	25.62	30.32	36.07	36.88
Jul	29.00	25.47	26.26	26.06	42.41	37.96	37.89
Aug	20.00	23.71	28.64	27.00	28.21	40.97	39.32
Sep	13.13	24.10	31.30	28.48	24.56	44.34	41.27
Oct	29.89	27.11	31.69	29.88	40.62	45.18	43.09
Nov	37.38	31.43	31.02	31.24	54.34	44.33	44.74
Dec	29.30	34.96	30.95	32.65	47.18	44.39	46.49

OBSERVED and SMOOTHED GDSO INTER-SOL INDICES (IS, IS[SW] and IS[SB13]) 1973-2013

SOLID = OBSERVED, DASHED = SW, DOTTED = SB13



CORRECTED and SMOOTHED **GDSO INTER-SOL INDICES** (ISGD, ISGD[SW] and ISGD[SB13]) 1994-2013

SOLID = CORRECTED, DASHED = SW, DOTTED = SB13

