

Total Solar Irradiance (TSI) Results from VIRGO (Variability of solar IRradiance and Gravity Oscillations) Onboard SOHO (Solar and Heliospheric Observatory)

NOTE: Version 3.50 shows also VIRGO irradiance data after the vacation of SOHO in summer 1998. These new corrected time series are internally consistent. For more information see <http://www.pmodwrc.ch>.

More detailed information about the individual measurements of the VIRGO radiometers can be found on the VIRGO homepage: <http://virgo.so.estec.esa.nl/>

Total Solar Irradiance results from VIRGO (Variability of solar IRradiance and Gravity Oscillations) onboard SOHO (SOlar and Heliospheric Observatory). The solar irradiance data and the evaluation of level 2 data are briefly described in the two papers below:

IN-FLIGHT PERFORMANCE OF THE VIRGO SOLAR IRRADIANCE INSTRUMENTS ON SOHO

(in Solar Phys. 175, pp.267-286, 1997)

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ABSTRACT

The inflight performance of the total and spectral irradiance instruments within VIRGO (Variability of solar IRradiance and Gravity Oscillations) on the ESA/NASA Mission SOHO (SOlar and Heliospheric Observatory) is in most aspects better than expected. The behaviour during the first year of operation of the two type of radiometers and the sunphotometers together with a description of their data evaluation procedures is presented.

ASSESSMENT OF DEGRADATION OF VIRGO RADIOMETERS ONBOARD SOHO
(in Metrologia, 35, p.685-688, 1999)

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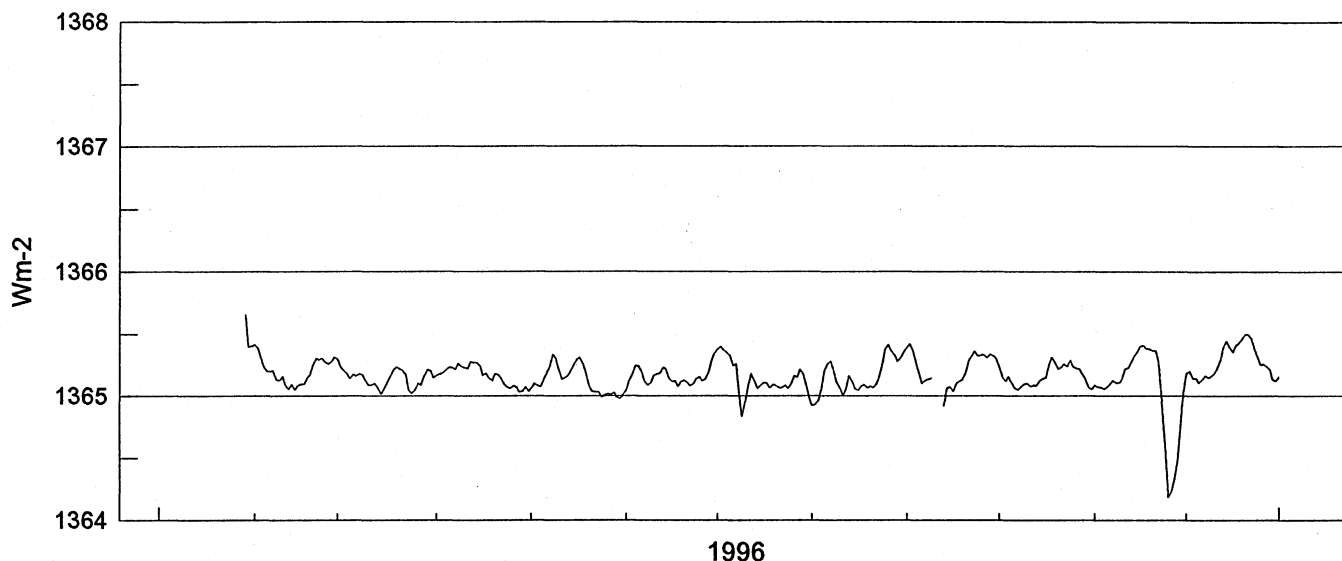
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ABSTRACT

The determination of the total solar irradiance (TSI) from the SOHO/VIRGO experiment is made by first correcting the time series for all a priori known influences and, second, to correct the data for instrumental degradation, using the back-up instruments PMO6-VB and DIARAD-R. The long term behaviour of PMO6-VA shows an exponential decrease in its sensitivity with a time constant of $t=390$ days and a $1/e$ amplitude of 528 ppm, whereas DIARAD-L exhibits a general increase in its sensitivity of about 0.25 ppm/day combined with an early exponential decrease of $t=405$ days and an $1/e$ amplitude of 65 ppm. After correcting PMO6-VA and DIARAD-L for their degradation, the VIRGO TSI shows a minimum around July 1996 and has been increasing since then by about 0.4 Wm^{-2} .

Editor's Note: These data can also be accessed from the NGDC web site <http://www.ngdc.noaa.gov/stp>. Click on the Solar and Upper Atmosphere icon, then on the Get Data icon and scroll down to Solar_Irradiance. The homepage for these data is www.pmodwrc.ch. To download data, go to <ftp://ftp.pmodwrc.ch/data/irradiance/virgo/>.

SOHO/VIRGO Total Solar Irradiance 1996-Version 3.50

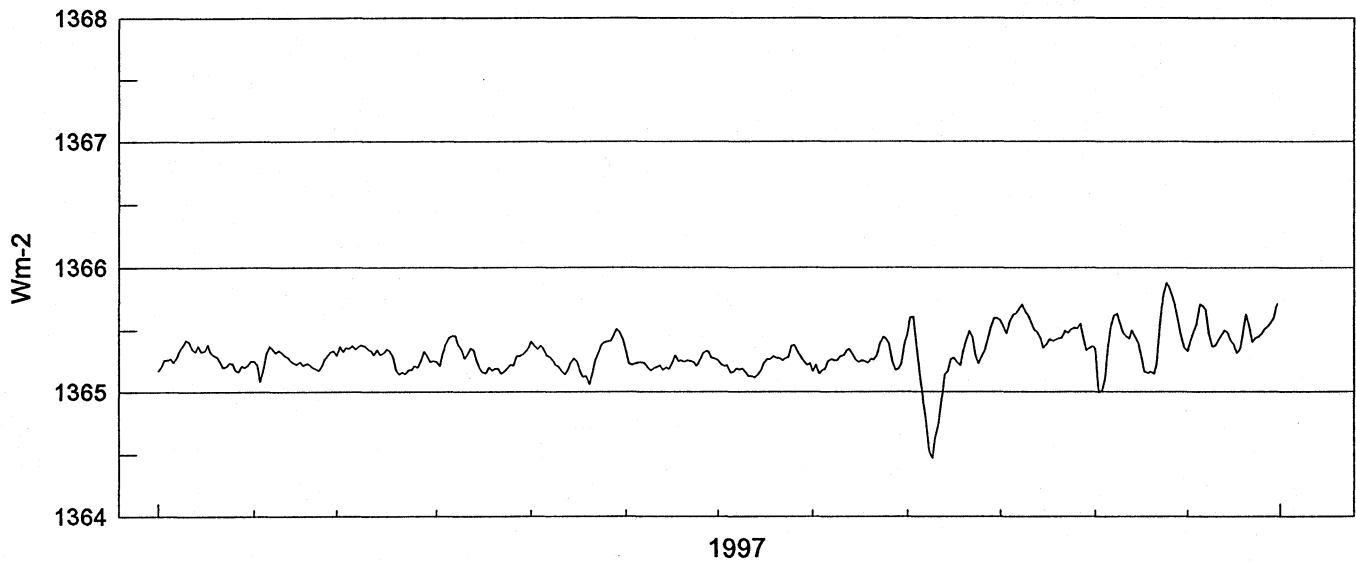


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	1365.412	1365.206	1365.180	1365.065	1365.045	1365.377	1364.925	1365.393	1365.238	1365.086	1365.188
2	--	1365.388	1365.188	1365.190	1365.104	1365.126	1365.400	1364.929	1365.420	1365.151	1365.073	1365.200
3	--	1365.316	1365.147	1365.212	1365.083	1365.171	1365.368	1364.968	1365.375	1365.123	1365.073	1365.146
4	--	1365.234	1365.174	1365.236	1365.078	1365.245	1365.355	1365.073	1365.267	1365.162	1365.057	1365.146
5	--	1365.199	1365.166	1365.229	1365.128	1365.247	1365.335	1365.206	1365.175	1365.109	1365.074	1365.110
6	--	1365.201	1365.182	1365.221	1365.183	1365.206	1365.250	1365.262	1365.106	1365.065	1365.095	1365.136
7	--	1365.204	1365.175	1365.265	1365.242	1365.123	1365.263	1365.281	1365.128	1365.054	1365.131	1365.167
8	--	1365.136	1365.127	1365.242	1365.337	1365.088	1365.026	1365.193	1365.138	1365.072	1365.108	1365.150
9	--	1365.130	1365.087	1365.230	1365.314	1365.110	1364.832	1365.112	1365.142	1365.100	1365.111	1365.158
10	--	1365.162	1365.088	1365.225	1365.217	1365.165	1364.956	1365.070	--	1365.105	1365.134	1365.188
11	--	1365.086	1365.106	1365.277	1365.138	1365.179	1365.098	1365.002	--	1365.080	1365.222	1365.236
12	--	1365.059	1365.066	1365.272	1365.151	1365.188	1365.180	1365.065	--	1365.088	1365.229	1365.300
13	--	1365.094	1365.017	1365.273	1365.165	1365.228	1365.131	1365.163	1364.921	1365.081	1365.280	1365.397
14	--	1365.055	1365.056	1365.246	1365.205	1365.221	1365.065	1365.125	1365.061	1365.122	1365.323	1365.444
15	--	1365.082	1365.110	1365.171	1365.261	1365.142	1365.086	1365.057	1365.074	1365.145	1365.358	1365.396
16	--	1365.099	1365.166	1365.186	1365.303	1365.119	1365.111	1365.048	1365.039	1365.151	1365.403	1365.360
17	--	1365.097	1365.214	1365.143	1365.315	1365.124	1365.111	1365.077	1365.102	1365.240	1365.411	1365.407
18	--	1365.148	1365.238	1365.130	1365.264	1365.077	1365.070	1365.092	1365.120	1365.319	1365.382	1365.428
19	--	1365.170	1365.227	1365.179	1365.175	1365.121	1365.095	1365.068	1365.134	1365.278	1365.385	1365.463
20	--	1365.255	1365.207	1365.175	1365.071	1365.130	1365.088	1365.078	1365.189	1365.222	1365.370	1365.502
21	--	1365.306	1365.175	1365.147	1365.036	1365.109	1365.068	1365.068	1365.291	1365.231	1365.368	1365.502
22	--	1365.297	1365.048	1365.095	1365.034	1365.081	1365.070	1365.096	1365.321	1365.264	1365.271	1365.470
23	--	1365.307	1365.023	1365.075	1365.031	1365.097	1365.090	1365.166	1365.364	1365.243	1364.955	1365.386
24	--	1365.275	1365.046	1365.062	1364.991	1365.145	1365.061	1365.269	1365.327	1365.294	1364.605	1365.319
25	--	1365.263	1365.105	1365.082	1365.006	1365.156	1365.093	1365.385	1365.333	1365.241	1364.180	1365.255
26	--	1365.280	1365.091	1365.071	1365.019	1365.125	1365.165	1365.413	1365.337	1365.225	1364.216	1365.260
27	--	1365.318	1365.166	1365.030	1365.012	1365.139	1365.156	1365.364	1365.313	1365.223	1364.318	1365.243
28	--	1365.300	1365.217	1365.037	1365.026	1365.195	1365.214	1365.333	1365.338	1365.177	1364.464	1365.215
29	--	1365.236	1365.206	1365.072	1364.994	1365.297	1365.179	1365.280	1365.326	1365.147	1364.747	1365.135
30	1365.397		1365.150	1365.040	1364.981	1365.350	1365.091	1365.311	1365.306	1365.073	1365.018	1365.126
31	1365.404		1365.169		1365.011		1364.975	1365.361		1365.052		1365.159

NOTE: '--' indicates data not available.

SOHO/VIRGO Total Solar Irradiance 1997-Version 3.50

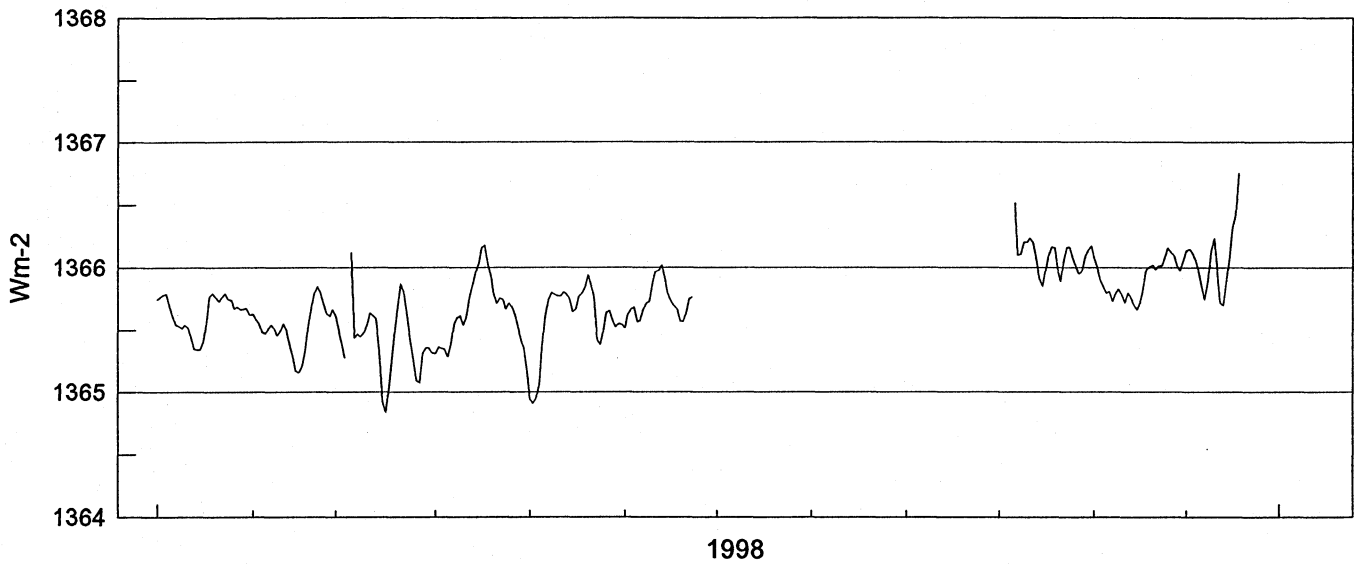
49
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1365.177	1365.249	1365.367	1365.248	1365.358	1365.422	1365.269	1365.228	1365.388	1365.600	1365.366	1365.361
2	1365.198	1365.223	1365.329	1365.212	1365.411	1365.328	1365.256	1365.170	1365.476	1365.579	1365.353	1365.334
3	1365.263	1365.088	1365.360	1365.307	1365.371	1365.229	1365.220	1365.220	1365.603	1365.538	1364.995	1365.422
4	1365.260	1365.178	1365.352	1365.389	1365.348	1365.220	1365.209	1365.152	1365.608	1365.476	1365.007	1365.484
5	1365.272	1365.314	1365.375	1365.438	1365.374	1365.233	1365.216	1365.182	1365.369	1365.566	1365.103	1365.551
6	1365.243	1365.366	1365.347	1365.454	1365.352	1365.243	1365.159	1365.185	1365.131	1365.623	1365.332	1365.707
7	1365.277	1365.353	1365.368	1365.455	1365.296	1365.243	1365.166	1365.252	1364.969	1365.637	1365.525	1365.692
8	1365.344	1365.319	1365.378	1365.385	1365.287	1365.238	1365.192	1365.268	1364.785	1365.671	1365.616	1365.667
9	1365.379	1365.337	1365.376	1365.349	1365.256	1365.200	1365.187	1365.255	1364.523	1365.708	1365.633	1365.467
10	1365.420	1365.317	1365.348	1365.273	1365.220	1365.177	1365.190	1365.257	1364.467	1365.652	1365.566	1365.369
11	1365.408	1365.298	1365.332	1365.309	1365.205	1365.195	1365.160	1365.290	1364.629	1365.616	1365.485	1365.375
12	1365.349	1365.280	1365.300	1365.351	1365.170	1365.198	1365.128	1365.298	1364.729	1365.565	1365.450	1365.419
13	1365.330	1365.249	1365.343	1365.340	1365.146	1365.214	1365.129	1365.337	1364.925	1365.508	1365.436	1365.461
14	1365.376	1365.228	1365.301	1365.251	1365.177	1365.178	1365.119	1365.350	1365.142	1365.487	1365.499	1365.500
15	1365.327	1365.227	1365.318	1365.188	1365.240	1365.200	1365.142	1365.307	1365.170	1365.435	1365.451	1365.479
16	1365.332	1365.246	1365.350	1365.158	1365.273	1365.187	1365.179	1365.262	1365.266	1365.356	1365.401	1365.418
17	1365.383	1365.218	1365.332	1365.153	1365.247	1365.233	1365.236	1365.239	1365.276	1365.383	1365.277	1365.390
18	1365.322	1365.232	1365.290	1365.203	1365.176	1365.297	1365.266	1365.256	1365.239	1365.429	1365.171	1365.317
19	1365.298	1365.227	1365.172	1365.175	1365.123	1365.249	1365.268	1365.250	1365.218	1365.415	1365.153	1365.348
20	1365.286	1365.201	1365.142	1365.189	1365.130	1365.254	1365.294	1365.235	1365.330	1365.425	1365.166	1365.499
21	1365.246	1365.191	1365.159	1365.190	1365.062	1365.245	1365.276	1365.265	1365.420	1365.435	1365.151	1365.628
22	1365.200	1365.175	1365.152	1365.152	1365.140	1365.257	1365.278	1365.262	1365.494	1365.438	1365.221	1365.535
23	1365.204	1365.198	1365.178	1365.169	1365.257	1365.249	1365.254	1365.295	1365.444	1365.497	1365.530	1365.405
24	1365.237	1365.260	1365.182	1365.192	1365.318	1365.241	1365.275	1365.390	1365.300	1365.482	1365.780	1365.438
25	1365.230	1365.298	1365.210	1365.223	1365.381	1365.209	1365.281	1365.446	1365.230	1365.508	1365.875	1365.443
26	1365.181	1365.326	1365.199	1365.217	1365.406	1365.251	1365.374	1365.433	1365.291	1365.520	1365.848	1365.468
27	1365.165	1365.331	1365.253	1365.294	1365.407	1365.310	1365.379	1365.394	1365.343	1365.516	1365.772	1365.510
28	1365.212	1365.295	1365.329	1365.292	1365.414	1365.332	1365.323	1365.253	1365.443	1365.550	1365.686	1365.531
29	1365.201		1365.293	1365.302	1365.466	1365.329	1365.292	1365.181	1365.522	1365.449	1365.559	1365.556
30	1365.216		1365.246	1365.327	1365.513	1365.276	1365.249	1365.186	1365.599	1365.336	1365.449	1365.600
31	1365.253		1365.251		1365.485		1365.221	1365.226		1365.360		1365.716

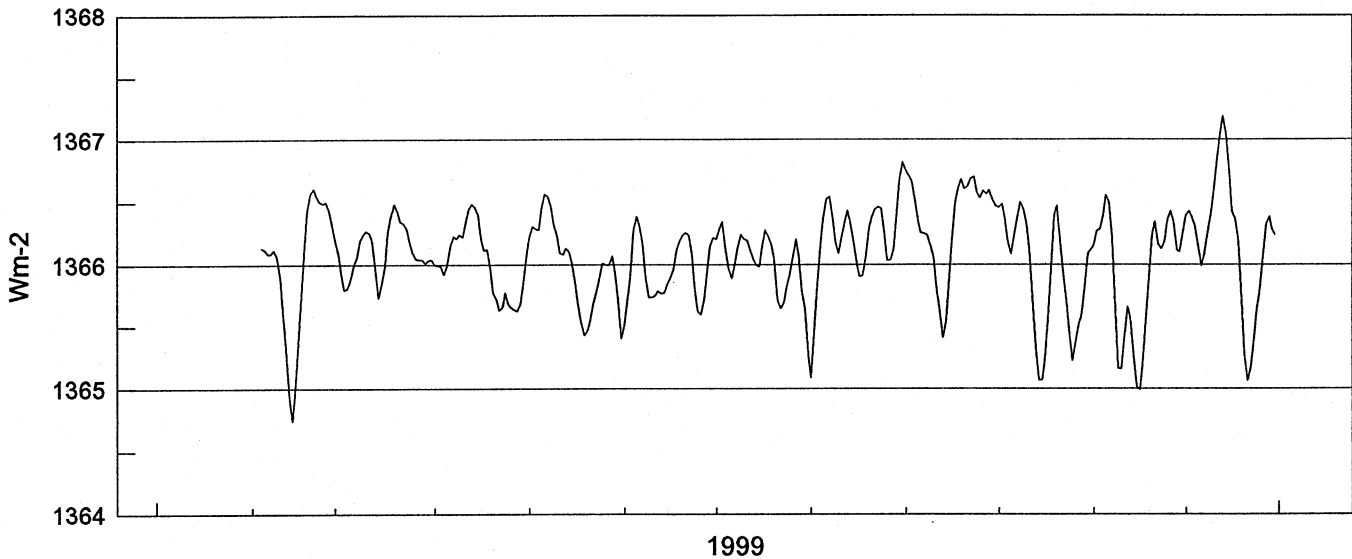
NOTE: '-' indicates data not available.

SOHO/VIRGO Total Solar Irradiance 1998 - Version 3.50



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1365.743	1365.628	1365.496	1365.312	1365.151	1365.545	--	--	--	--	1366.173	1366.054
2	1365.762	1365.585	1365.385	1365.362	1364.945	1365.514	--	--	--	--	1366.077	1366.136
3	1365.782	1365.559	1365.278	1365.352	1364.909	1365.622	--	--	--	--	1365.998	1366.148
4	1365.786	1365.483	--	1365.349	1364.951	1365.661	--	--	--	--	1365.900	1366.124
5	1365.683	1365.476	--	1365.286	1365.074	1365.684	--	--	--	--	1365.840	1366.060
6	1365.616	1365.514	1365.439	1365.391	1365.364	1365.567	--	--	--	--	1365.797	1365.969
7	1365.547	1365.539	1365.470	1365.554	1365.613	1365.573	--	--	--	--	1365.809	1365.844
8	1365.532	1365.513	1365.450	1365.595	1365.739	1365.665	--	--	--	1366.100	1365.730	1365.743
9	1365.514	1365.461	1365.474	1365.614	1365.793	1365.717	--	--	--	1366.108	1365.794	1365.877
10	1365.541	1365.502	1365.540	1365.541	1365.785	1365.732	--	--	--	1366.205	1365.829	1366.132
11	1365.523	1365.553	1365.637	1365.615	1365.771	1365.878	--	--	--	1366.203	1365.785	1366.234
12	1365.451	1365.496	1365.617	1365.748	1365.769	1365.961	--	--	--	1366.234	1365.721	1366.016
13	1365.350	1365.383	1365.591	1365.845	1365.799	1365.975	--	--	--	1366.202	1365.793	1365.720
14	1365.340	1365.281	1365.341	1365.957	1365.786	1366.019	--	--	--	1366.066	1365.763	1365.698
15	1365.342	1365.169	1364.927	1366.036	1365.748	1365.914	--	--	--	1365.912	1365.701	1365.893
16	1365.408	1365.158	1364.837	1366.155	1365.650	1365.798	--	--	--	1365.854	1365.662	1366.101
17	1365.575	1365.207	1364.990	1366.178	1365.667	1365.734	--	--	--	1365.961	1365.722	1366.318
18	1365.764	1365.334	1365.241	1366.019	1365.763	1365.697	--	--	--	1366.091	1365.819	1366.423
19	1365.792	1365.516	1365.501	1365.941	1365.791	1365.666	--	--	--	1366.163	1365.982	--
20	1365.758	1365.675	1365.718	1365.792	1365.836	1365.573	--	--	--	1366.157	1366.005	--
21	1365.730	1365.796	1365.865	1365.715	1365.940	1365.566	--	--	--	1365.999	1366.017	--
22	1365.762	1365.848	1365.798	1365.757	1365.873	1365.635	--	--	--	1365.886	1365.985	--
23	1365.790	1365.804	1365.609	1365.742	1365.764	1365.748	--	--	--	1366.066	1366.016	--
24	1365.743	1365.714	1365.416	1365.667	1365.424	1365.760	--	--	--	1366.160	1366.016	--
25	1365.737	1365.635	1365.280	1365.714	1365.386	--	--	--	--	1366.160	1366.092	--
26	1365.673	1365.615	1365.094	1365.681	1365.481	--	--	--	--	1366.070	1366.158	--
27	1365.683	1365.664	1365.078	1365.618	1365.645	--	--	--	--	1366.000	1366.122	--
28	1365.665	1365.620	1365.318	1365.533	1365.653	--	--	--	--	1365.947	1366.098	--
29	1365.671	--	1365.359	1365.426	1365.574	--	--	--	--	1365.970	1366.003	--
30	1365.672	--	1365.359	1365.354	1365.525	--	--	--	--	1366.086	1365.974	--
31	1365.625	--	1365.316	--	1365.553	--	--	--	--	1366.143	--	--

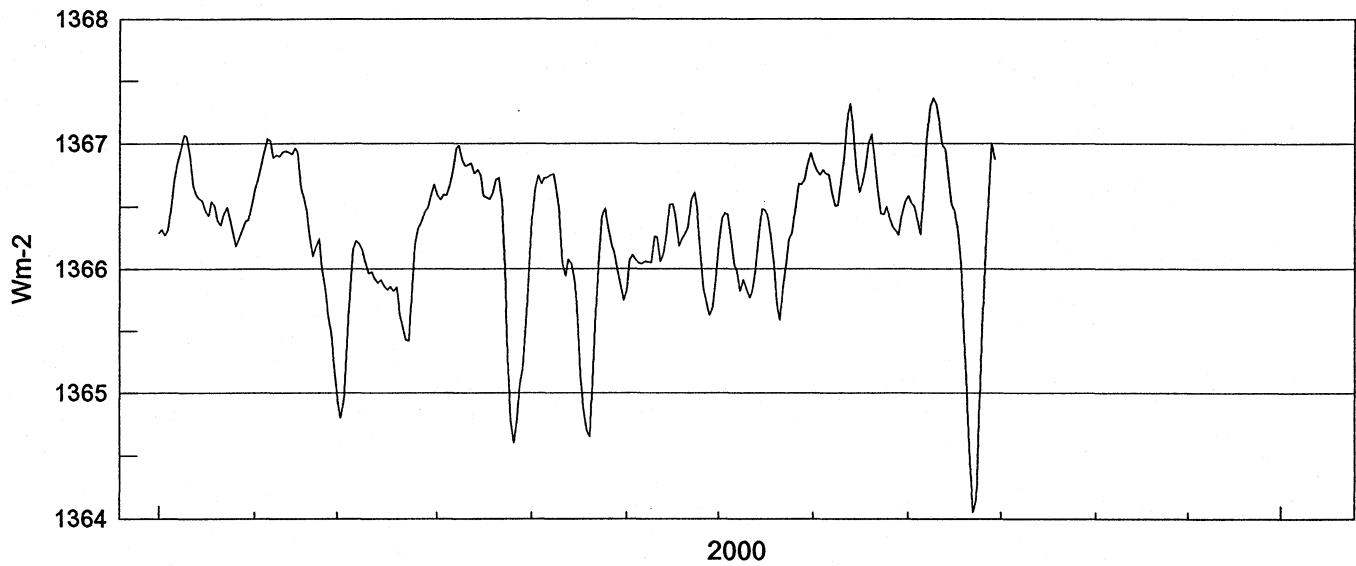
SOHO/VIRGO Total Solar Irradiance 1999 - Version 3.50



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	--	1366.095	1366.000	1366.091	1365.402	1366.211	1365.272	1366.820	1366.469	1366.121	1366.251
2	--	--	1365.916	1365.996	1366.224	1365.515	1366.206	1365.088	1366.754	1366.460	1366.152	1366.398
3	--	--	1365.802	1365.990	1366.307	1365.687	1366.291	1365.448	1366.718	1366.484	1366.268	1366.426
4	--	1366.132	1365.812	1365.921	1366.283	1365.902	1366.339	1365.839	1366.673	1366.383	1366.283	1366.380
5	--	1366.122	1365.885	1365.992	1366.280	1366.274	1366.131	1366.151	1366.524	1366.182	1366.396	1366.311
6	--	1366.084	1365.994	1366.154	1366.453	1366.382	1365.967	1366.362	1366.350	1366.084	1366.554	1366.147
7	--	1366.088	1366.060	1366.225	1366.564	1366.314	1365.890	1366.522	1366.255	1366.243	1366.503	1365.991
8	--	1366.119	1366.185	1366.207	1366.543	1366.173	1365.984	1366.546	1366.248	1366.360	1366.207	1366.077
9	--	1366.062	1366.239	1366.240	1366.463	1365.894	1366.131	1366.377	1366.232	1366.499	1365.641	1366.243
10	--	1365.908	1366.267	1366.217	1366.324	1365.741	1366.238	1366.195	1366.153	1366.447	1365.165	1366.393
11	--	1365.641	1366.247	1366.348	1366.240	1365.742	1366.202	1366.094	1366.056	1366.321	1365.157	1366.597
12	--	1365.318	1366.191	1366.440	1366.090	1365.749	1366.194	1366.223	1365.827	1366.128	1365.422	1366.797
13	--	1364.937	1365.969	1366.483	1366.083	1365.792	1366.128	1366.348	1365.637	1365.746	1365.659	1367.023
14	--	1364.743	1365.736	1366.457	1366.131	1365.769	1366.049	1366.432	1365.407	1365.333	1365.574	1367.188
15	--	1364.977	1365.851	1366.396	1366.105	1365.777	1365.992	1366.327	1365.544	1365.068	1365.276	1367.044
16	--	1365.365	1365.997	1366.217	1366.004	1365.834	1365.982	1366.172	1365.830	1365.070	1365.013	1366.738
17	--	1365.755	1366.259	1366.116	1365.844	1365.890	1366.137	1366.004	1366.200	1365.226	1364.992	1366.430
18	--	1366.156	1366.393	1366.124	1365.686	1365.958	1366.272	1365.907	1366.502	1365.558	1365.195	1366.365
19	--	1366.438	1366.482	1365.968	1365.528	1366.118	1366.224	1365.915	1366.622	1365.965	1365.544	1366.190
20	--	1366.572	1366.421	1365.780	1365.428	1366.195	1366.153	1366.058	1366.683	1366.404	1365.892	1365.715
21	--	1366.605	1366.346	1365.728	1365.469	1366.234	1366.038	1366.287	1366.606	1366.467	1366.244	1365.275
22	--	1366.541	1366.333	1365.632	1365.553	1366.253	1365.719	1366.375	1366.623	1366.196	1366.343	1365.063
23	--	1366.503	1366.292	1365.657	1365.693	1366.236	1365.648	1366.445	1366.691	1365.929	1366.169	1365.172
24	--	1366.488	1366.172	1365.776	1365.790	1366.086	1365.695	1366.461	1366.700	1365.705	1366.127	1365.410
25	--	1366.496	1366.100	1365.681	1365.914	1365.833	1365.816	1366.446	1366.587	1365.473	1366.190	1365.621
26	--	1366.430	1366.044	1365.656	1366.009	1365.621	1365.920	1366.283	1366.535	1365.226	1366.351	1365.797
27	--	1366.331	1366.042	1365.631	1366.001	1365.599	1366.061	1366.033	1366.589	1365.379	1366.426	1366.072
28	--	1366.198	1366.039	1365.626	1365.993	1365.716	1366.201	1366.037	1366.566	1365.523	1366.338	1366.325
29	--		1366.010	1365.688	1366.064	1365.952	1366.082	1366.116	1366.596	1365.583	1366.116	1366.381
30	--		1366.036	1365.877	1365.956	1366.149	1365.789	1366.356	1366.523	1365.813	1366.102	1366.281
31	--		1366.039		1365.724		1365.648	1366.682		1366.084		1366.232

NOTE: '--' indicates data not available.

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Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1366.291	1366.639	1364.931	1366.552	1366.392	1365.832	1366.198	1366.862	1366.582	--	--	--
2	1366.317	1366.727	1365.308	1366.594	1366.652	1366.069	1366.400	1366.789	1366.527	--	--	--
3	1366.267	1366.819	1365.780	1366.588	1366.750	1366.110	1366.448	1366.755	1366.506	--	--	--
4	1366.322	1366.938	1366.159	1366.674	1366.683	1366.070	1366.432	1366.794	1366.401	--	--	--
5	1366.530	1367.035	1366.225	1366.794	1366.728	1366.043	1366.243	1366.763	1366.273	--	--	--
6	1366.712	1367.020	1366.200	1366.966	1366.734	1366.041	1366.031	1366.755	1366.579	--	--	--
7	1366.854	1366.889	1366.159	1366.987	1366.751	1366.062	1365.986	1366.605	1367.036	--	--	--
8	1366.952	1366.909	1366.056	1366.876	1366.759	1366.054	1365.823	1366.506	1367.292	--	--	--
9	1367.068	1366.899	1365.962	1366.824	1366.638	1366.051	1365.913	1366.507	1367.363	--	--	--
10	1367.058	1366.939	1365.975	1366.836	1366.454	1366.257	1365.839	1366.711	1367.308	--	--	--
11	1366.911	1366.940	1365.924	1366.844	1366.042	1366.252	1365.767	1366.900	1367.180	--	--	--
12	1366.666	1366.936	1365.886	1366.764	1365.945	1366.063	1365.822	1367.219	1366.990	--	--	--
13	1366.592	1366.915	1365.911	1366.791	1366.078	1366.123	1365.997	1367.315	1366.955	--	--	--
14	1366.565	1366.964	1365.859	1366.746	1366.044	1366.297	1366.256	1367.109	1366.710	--	--	--
15	1366.542	1366.934	1365.833	1366.582	1365.906	1366.515	1366.479	1366.782	1366.524	--	--	--
16	1366.462	1366.657	1365.859	1366.571	1365.605	1366.520	1366.474	1366.618	1366.463	--	--	--
17	1366.427	1366.563	1365.822	1366.558	1365.143	1366.409	1366.430	1366.684	1366.331	--	--	--
18	1366.538	1366.443	1365.853	1366.618	1364.875	1366.181	1366.260	1366.806	1366.043	--	--	--
19	1366.504	1366.265	1365.634	1366.710	1364.700	1366.246	1366.026	1367.003	1365.554	--	--	--
20	1366.383	1366.102	1365.547	1366.728	1364.653	1366.276	1365.723	1367.072	1365.015	--	--	--
21	1366.351	1366.179	1365.432	1366.543	1365.094	1366.333	1365.588	1366.906	1364.455	--	--	--
22	1366.439	1366.238	1365.419	1366.011	1365.651	1366.562	1365.866	1366.652	1364.050	--	--	--
23	1366.492	1366.006	1365.849	1365.293	1366.100	1366.609	1366.050	1366.445	1364.157	--	--	--
24	1366.400	1365.846	1366.195	1364.782	1366.443	1366.483	1366.235	1366.435	1364.795	--	--	--
25	1366.279	1365.621	1366.325	1364.599	1366.483	1366.149	1366.287	1366.496	1365.521	--	--	--
26	1366.181	1365.479	1366.372	1364.786	1366.339	1365.843	1366.486	1366.411	1366.141	--	--	--
27	1366.246	1365.211	1366.455	1365.064	1366.205	1365.719	1366.680	1366.334	1366.625	--	--	--
28	1366.313	1364.959	1366.494	1365.206	1366.116	1365.629	1366.678	1366.302	1367.010	--	--	--
29	1366.380	1364.799	1366.583	1365.566	1365.999	1365.677	1366.715	1366.270	1366.873	--	--	--
30	1366.390		1366.677	1366.029	1365.870	1365.905	1366.840	1366.440	--	--	--	--
31	1366.507		1366.588		1365.743		1366.925	1366.541	--	--	--	--

NOTE: '--' indicates data not available.

SOHO/VIRGO Total Solar Irradiance

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