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SVIRCO DATA: January to December 2007

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Abstract

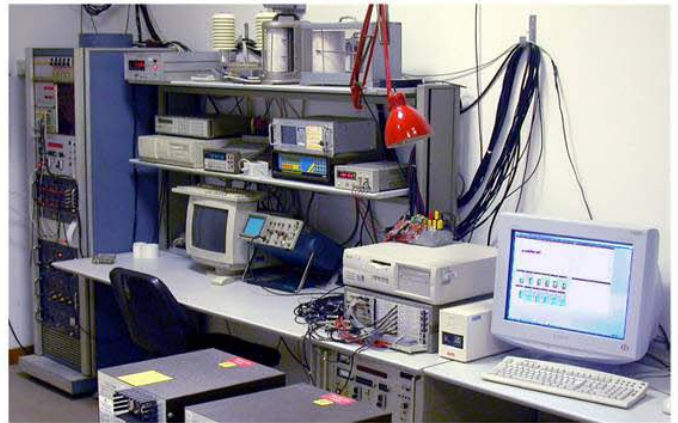
The pressure corrected intensity of the nucleonic component, produced by primary cosmic rays and recorded by the Rome Neutron Monitor, is reported for January to December 2007, together with the barometric pressure data in tabular and graphic form.



S.V.I.R.CO. Observatory

Rome

Italy



SVIRCO OBSERVATORY

During the 1st International Geophysics Year (1957) an international network of “ground-based detectors” for continuous cosmic ray measurements was world-wide established.

The cosmic ray station of Rome joined this network with the purpose to study the time variations of primary cosmic rays (**Studio Variazioni Intensità Raggi Cosmici: S.V.I.R.CO.**) and their modulation in the heliosphere.

From July 1957 to April 1997, the SVIRCO Station (now Observatory) performed uninterrupted measurements at the Physics Department “G. Marconi” of “La Sapienza” University of Rome (41.90° N, 12.52° E, altitude about 60 m a.s.l.)

In May 1997 the neutron monitor was moved into the Physics Department “E. Amaldi” of “Roma Tre” University. Since then it has been continuously running at the new location (41.86° N, 12.47° E, altitude about s.l.).

The SVIRCO Observatory (INAF/IFSI-UNIRomaTre collaboration) is housed in a reserved building provided with a double air-conditioning system. The inner temperature is permanently restrained in a range of 23°-26° C, meanwhile the relative humidity is kept below 57%. Either the environmental parameters are continuously checked and recorded by digital sensors.

On January 1, 2005 three counters were added to the detector. This upgrade, from 17 to 20 NM-64, made the SVIRCO neutron monitor still consist of 5 sections but modified the geometry. Actually the new arrangement has been composed of three 3-counter, one 5-counter and one 6-counter units. The enhancement improved not only the overall counting rate of 15.6 % (January 2005) but, as a result, also the statistical quality of the recorded data.

Each of the 20 BF₃ proportional counters (BP-28 type) is equipped with a smart amplifier/discriminator circuit complete with a spectrum stabilizer. This new electronic unit, developed in our laboratory, holds firmly the pulse height spectrum of the amplifier output (within a range of more than 150 volts around the operating voltage), providing the counter with a great immunity against high voltage variations.

Anyway, systematic and exhaustive tests of the counters are regularly performed. The output pulses of the amplifiers, discriminated by the threshold gates, are collected and stored into a multi-channel analyzer. The analysis of the height distribution (spectrum) of the amplifier pulses coinciding with the discriminator ones, is essential to verify the long term efficiency of each counter together with the amplifier gain and the discriminator threshold level.

As well as the amplifier/discriminator circuits, a large part of the electronic instrumentation operating in the Observatory was designed and realized in our laboratory together with the software for data acquisition and pre-elaboration.

In order to improve the reliability of the recorded data and to prevent measurement breakdowns, two independent systems perform contemporary the data acquisition. Each system is remotely controlled by a dedicated computer and is timed by a high stability quartz clock and/or a GPS receiver. One equipment runs according to a timing of 1 minute and fulfils the acquisition of the 20 counters separately. The other one records the individual 5-minute counting rate of each detector section in addition to the rates of the overall multiplicity, sorted into separated counting channels (from 1 to greater than 8).

A special care is devoted to the atmospheric pressure measurements, thus they are carried out by means of not less than three barometers at the same time. These instruments, achieving a resolution up to 0.01 hPa, are constantly checked out each other for the best measuring accuracy and reliability. Furthermore the devices in use are equipped with different types of transducer such as vibrating cylinder, force balance and quartz, therefore, throughout their different behaviours, it is possible to point out the occurrence of any long-term drift and eventually to re-calibrate the instruments themselves.

More details of the complete acquisition system can be found on the included block diagram.

The overall stability of the monitor is controlled by means of the section ratios. The hourly counting rate of each section, divided by the total rate, is plotted in real time on a daily diagram. Moreover, the daily averages of these ratios are separately plotted, as percentage, in monthly histograms. The annual series of histograms, which is included in this report, shows the long term stability of each section.

Finally, in order to verify the coherence between the variations of the nucleonic intensity recorded by SVIRCO-Rome and by another such a similar observatory, a comparative data analysis was performed with the neutron monitor data of Hermanus (South Africa - 34.43° S, 19.23° E, altitude 26 m a.s.l.). This Observatory was chosen because of its data availability and threshold rigidity, which is equal to 4.45 GV (1995). Both data sets were normalized to their respective annual average and then plotted, together with their ratio, on daily basis and also in a regression form.

We acknowledge the Unit for Space Physics of North-West University (Potchefstroom-South Africa) for Hermanus Neutron Monitor data.

DATA PRESENTATION

The intensity data, of the secondary nucleonic component of cosmic ray, detected in Rome at the SVIRCO Observatory, were corrected for pressure variations at a reference level of 1009.25 hPa with an attenuation coefficient of 0.70% / hPa.

a) Tables:

The hourly corrected data are reported in tabular form for each month together with the daily ratios section R_i . The R_i ratios (%) are computed as rate of each section (channel i) divided by total rate. Only $n - 1$ section ratios are provided, being n the number of sections.

The hourly and daily averages (in hPa) of the atmospheric pressure measured at the Observatory, are also presented in monthly tables.

Furthermore, the monthly averages of the values, reported either in the corrected-data tables or in the pressure ones, are shown below them.

b) Graphs

The hourly-corrected data were also multiplied by a suitable normalization factor and plotted in monthly graphs. The normalization was evaluated as percentage of the counting rate average in the period from January to February 1997, when the Monitor operated at the previous location of "La Sapienza" University. The reference counting rate level (100%), computed for such a referential period, is equal to 554946 counts/hour. The set of normalized graphs are provided for long-term analysis.

The monthly graphs of the atmospheric pressure are reported too.

CONDITIONS FOR SVIRCO DATA USE

You are welcome to use SVIRCO neutron monitor data of IFSI/INAF-UNIRomaTre collaboration under the following conditions:

-You agree to acknowledge our financial supports in any published use of the data. Example:

"SVIRCO NM is supported by the INAF - UNIRomaTre collaboration"

-You are kindly requested to send a copy of any published work derived from our data to:

Dr. Marisa STORINI

Head of SVIRCO Observatory & TPL

Istituto di Fisica dello Spazio Interplanetario - Area di Ricerca Tor Vergata

Via del Fosso del Cavaliere, 100 00133 Roma - Italy,

storini@fis.uniroma3.it or storini@ifs-roma.inaf.it

HOURLY RECOVERED DATA - YEAR 2007

When the whole counting rate of the Neutron Monitor was lost for less than a 15 min interval (*) or a section was inoperative (°), the hourly data were recovered as reported in the table.

Month	Day	Time (UT)
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RELEVANT MONITOR AND DATA CHARACTERISTICS FOR 2007

Cosmic Ray Observatory Rome or SVIRCO
Geographic coordinates 12.47°E, 41.86°N
Altitude Sea level
Threshold rigidity (year) 6.27 GV (1995)
Instrument 20 NM - 64 (three 3-counter,
one 5-counter and one 6-counter units)
Scaling factor 1
Pressure coefficient 0.70 % / hPa
Pressure reference level 1009.25 hPa

Rate enhancement
from 17 to 20 counters 15.6% (since January 2005)

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“SVIRCO Prompt Report: July 2007”

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“SVIRCO Prompt Report: November 2007”

Istituto di Fisica dello Spazio Interplanetario - INAF, Report IFSI-2007-19, December 2007

F. Signoretti, F. Re:

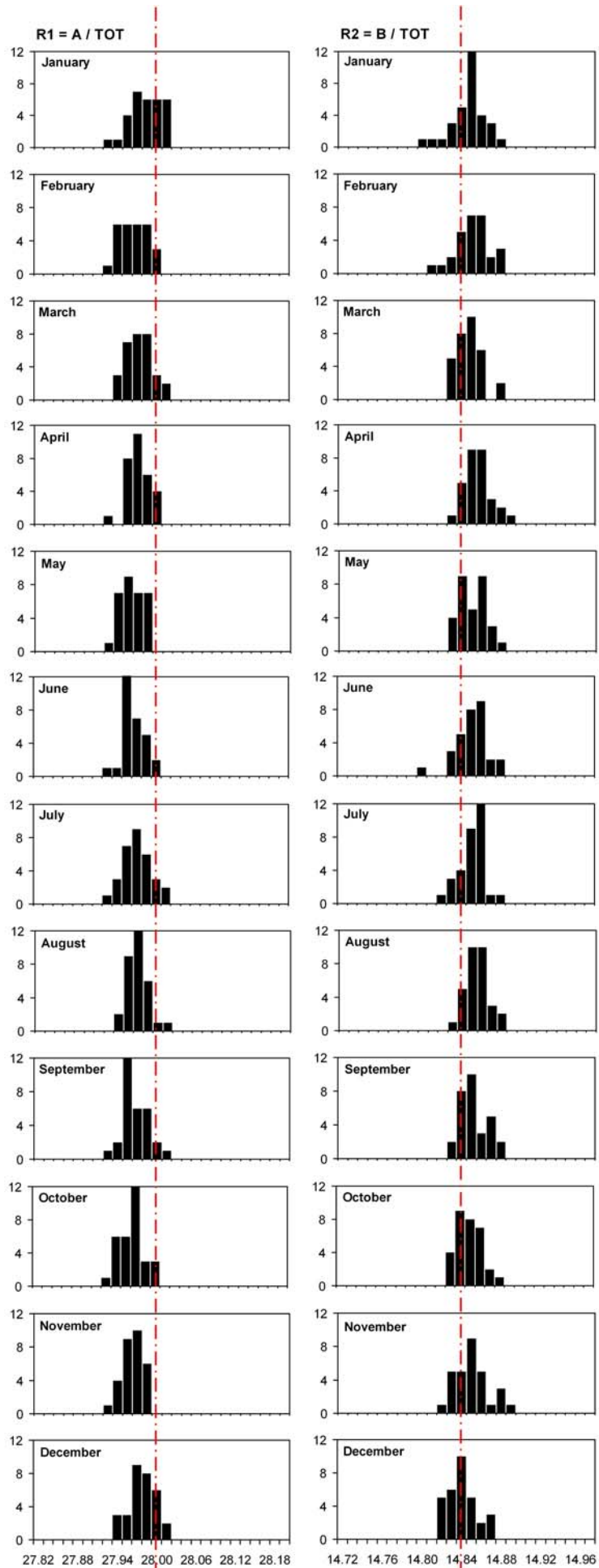
“SVIRCO Prompt Report: December 2007”

Istituto di Fisica dello Spazio Interplanetario - INAF, Report IFSI-2008-1, January 2008

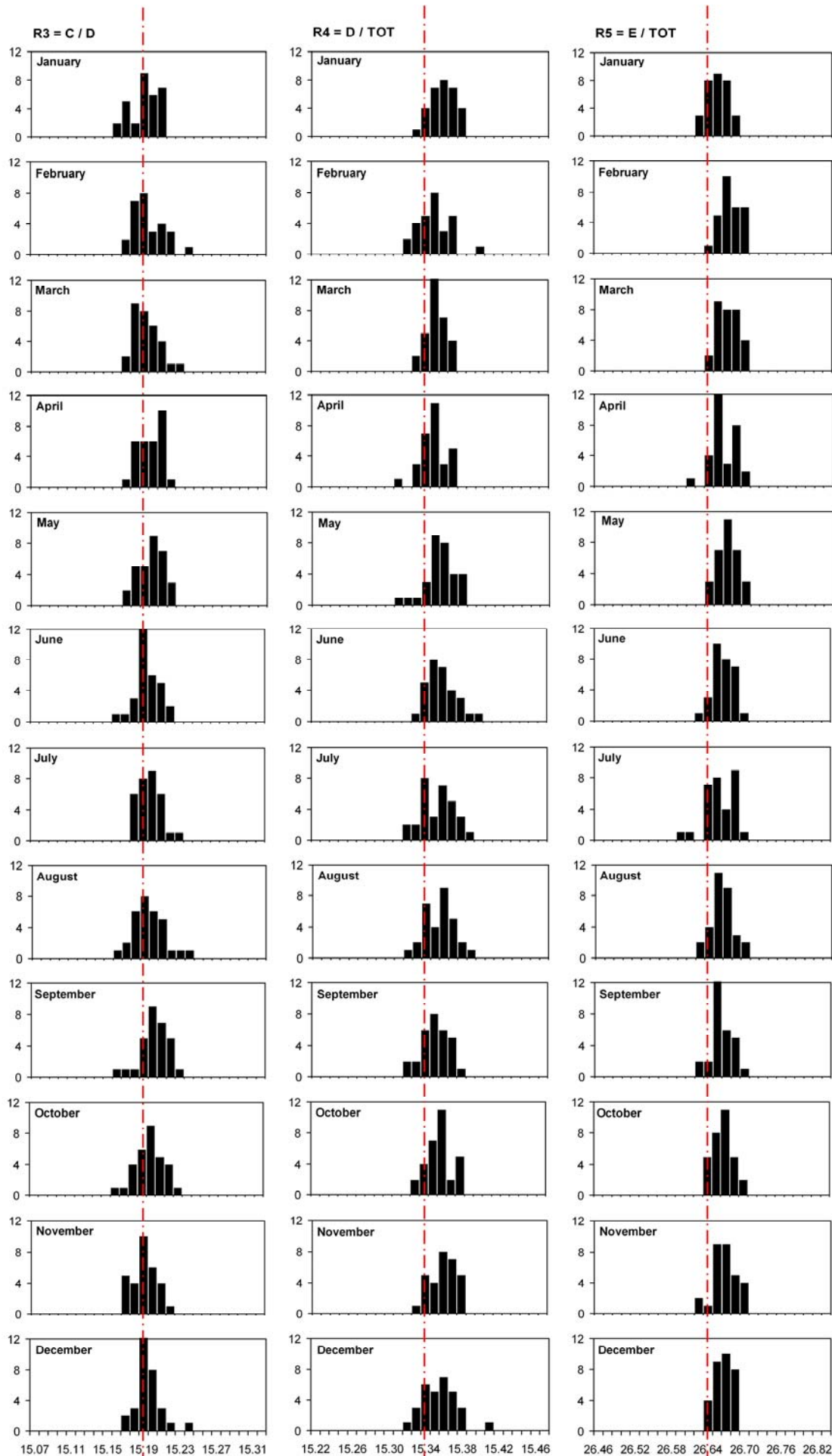
F. Signoretti, F. Re:

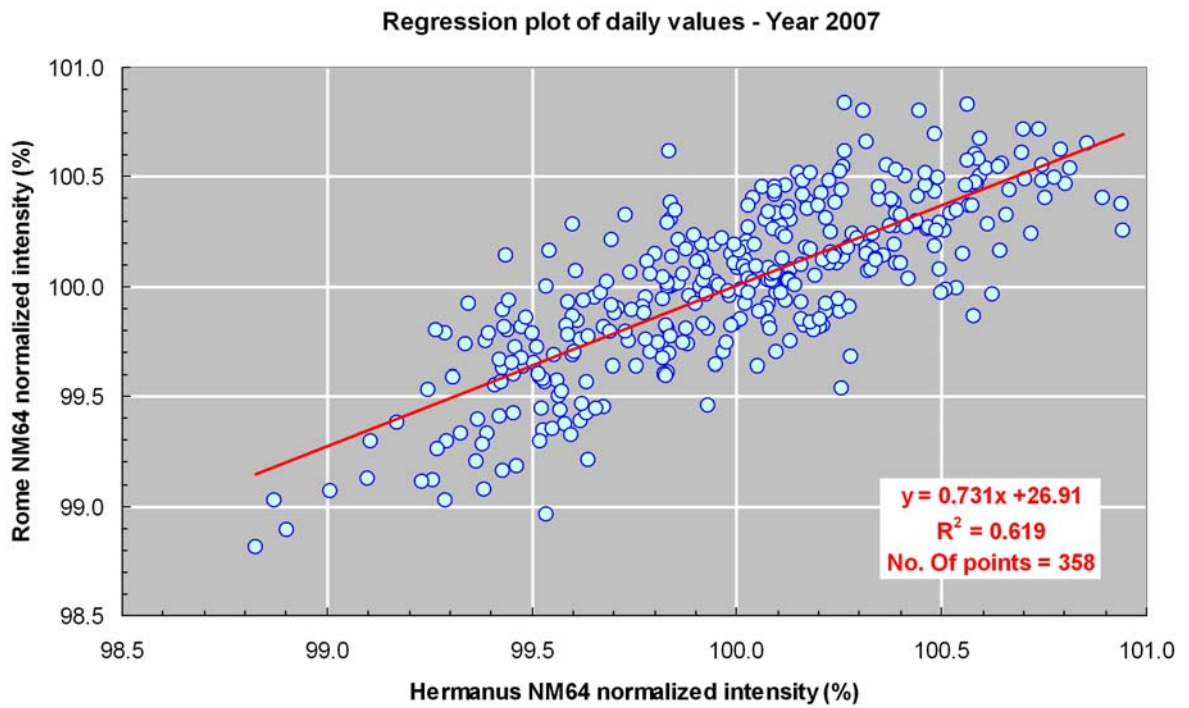
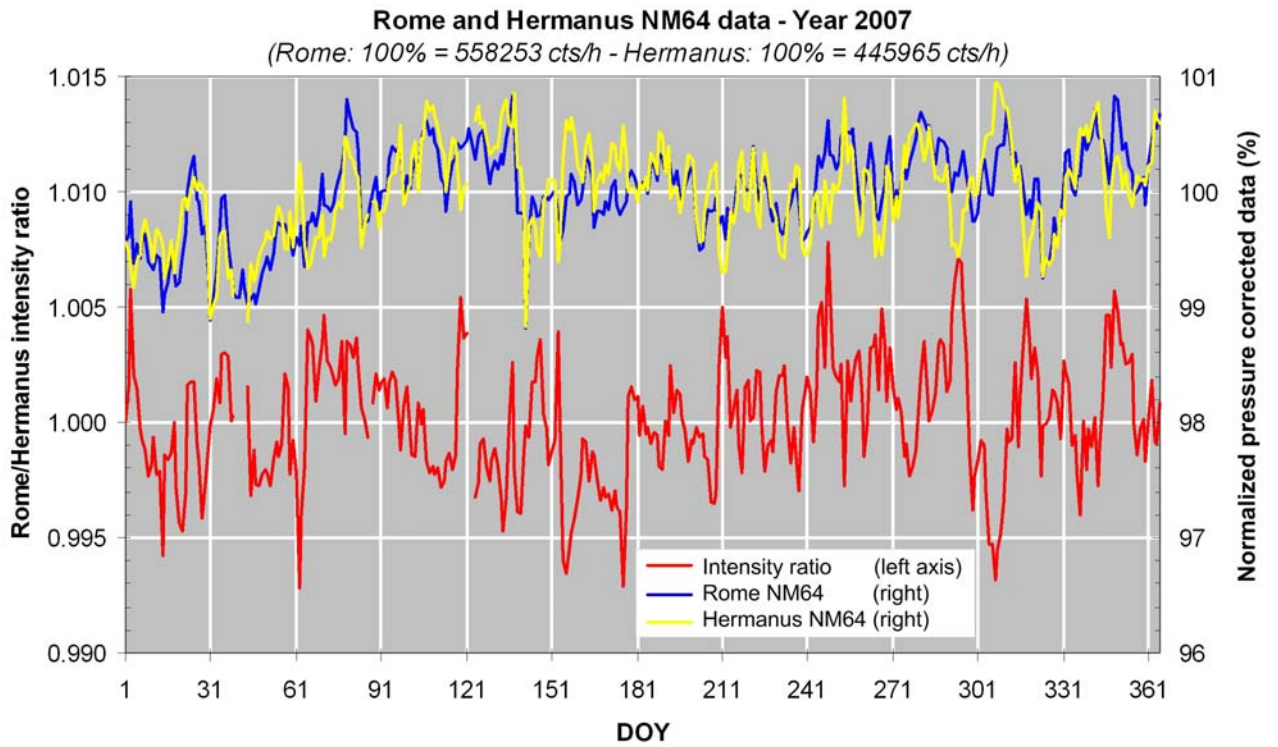
“SVIRCO Prompt Report: January 2008”

Istituto di Fisica dello Spazio Interplanetario - INAF, Report IFSI-2008-3, February 2008

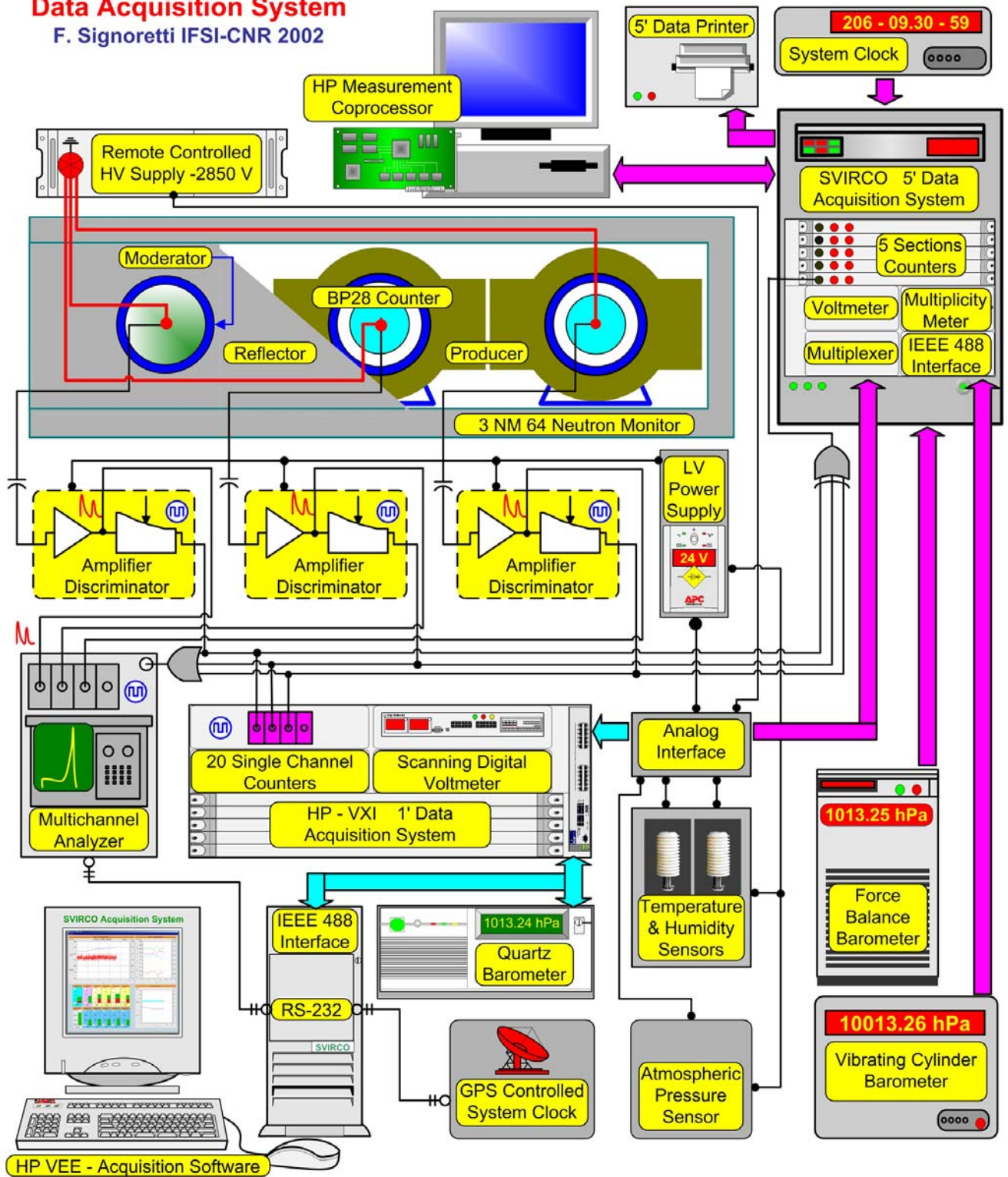


INAF/UNIRomaTre S.V.I.R.CO. Observatory 20 NM-64
 Year 2007 - Ratios of Neutron Monitor Units





S.V.I.R.CO.
Data Acquisition System
 F. Signoretti IFSI-CNR 2002



S.V.I.R.CO. Observatory - Rome (41.86° N - 12.47° E, s.l.)

Pressure corrected data - January 2007

UT DAY	1	2	3	4	5	6	7	8	9	10	11	12	DAILY				
	13	14	15	16	17	18	19	20	21	22	23	24	AVG	R1	R2	R3	R4
1	552691	554099	552839	554137	553915	555744	558375	557194	557100	558093	556131	557179	555849	28.002	14.823	15.171	15.371
2	555129	551685	555516	551370	552389	555151	556730	555713	555457	558290	555935	557239	556224	27.990	14.849	15.169	15.361
3	557317	556593	556666	556672	558348	558770	558357	556839	558883	558772	560571	559891	557790	27.991	14.831	15.209	15.348
4	554691	554946	556982	552338	558391	555363	555173	554270	558027	555534	556999	556779	554778	27.947	14.839	15.184	15.361
5	553088	555132	554214	554740	556385	557781	555857	557649	557682	555542	559074	558276	555766	27.966	14.843	15.185	15.359
6	552812	553168	554243	555785	554599	556703	553679	557038	555044	556004	556697	554377	555052	27.968	14.856	15.182	15.371
7	553498	554774	555160	553281	555383	553536	555149	556202	557685	555955	557085	559173	555841	27.967	14.829	15.166	15.373
8	554274	556791	553368	556963	554673	556158	555853	557391	558068	557738	559587	559018	556225	27.986	14.848	15.202	15.344
9	551842	553191	553457	551156	555049	553950	555983	556763	558938	560181	559130	558389	554852	27.967	14.844	15.196	15.366
10	553229	552867	553830	554253	553623	555165	557202	553591	557131	556423	558164	556766	554612	27.975	14.844	15.186	15.345
11	552313	551443	552474	553362	553149	554732	553508	557543	558225	556507	555993	557896	554514	27.964	14.824	15.206	15.359
12	552462	553099	553485	553827	554656	553521	554926	555334	554906	556110	558454	558545	555192	27.952	14.847	15.200	15.341
13	554275	552791	553876	552505	555470	557890	553861	556496	556528	555375	556915	555151	555043	27.984	14.811	15.203	15.364
14	551308	550845	550452	551291	553053	552006	554091	554283	551896	553593	556532	557135	552463	28.003	14.849	15.152	15.350
15	550115	551864	550635	550474	551504	548509	553167	552901	556248	554859	555233	554850	553320	27.988	14.825	15.181	15.344
16	552363	554822	555648	552687	552732	554825	552068	555570	554894	555973	557114	554291	553812	27.995	14.840	15.169	15.357
17	553083	553705	552955	552492	555269	555350	555472	555360	556059	555937	558597	555723	555123	28.008	14.800	15.185	15.351
18	552761	553538	552165	555589	554141	556734	554183	554847	554510	554927	556316	558709	554315	28.001	14.842	15.182	15.330
19	552436	554976	553776	553170	553689	555300	553542	552243	553991	552801	556061	554160	553693	27.987	14.791	15.209	15.376
20	553474	551439	552998	551495	555098	554260	555345	553669	556096	556075	553401	551626	553831	28.001	14.826	15.193	15.353
21	553827	553779	552595	551094	554518	555498	552909	555924	555367	557410	552117	555316	555218	27.971	14.864	15.154	15.331
22	553576	556522	555358	553194	555471	555476	556554	555018	555892	557591	556073	554737	556266	27.965	14.839	15.194	15.361
23	553754	556228	556622	555557	559101	557305	558110	558107	558301	556624	557030	557819	558265	27.948	14.841	15.194	15.366
24	559250	558379	557955	555998	556574	558748	560140	561689	560982	561013	559673	560464	559388	27.977	14.824	15.202	15.346
25	558764	559336	557586	558977	558785	560018	559715	559454	560140	560301	560953	559691	559962	27.936	14.866	15.200	15.359
26	558307	555854	555915	554791	557076	556263	557276	556743	557401	559829	558348	559672	557827	27.956	14.843	15.188	15.335
27	555240	555667	557696	554798	555545	555227	556244	558344	557928	558841	558806	562216	557811	27.920	14.855	15.185	15.364
28	554758	555354	554105	556090	556313	557039	555501	557299	558199	557592	556085	558684	556242	27.979	14.841	15.170	15.355
29	555125	556137	555585	553375	558138	554774	556400	556159	555553	559086	557650	557169	556584	27.954	14.840	15.205	15.335
30	556251	554820	553945	554999	556067	554601	555405	555055	556251	555012	554847	554646	554241	28.007	14.842	15.167	15.340
31	550575	550376	553311	551091	550627	552973	551450	553242	550674	550505	553331	550052	552055	27.982	14.835	15.170	15.346
MONTHLY AVG	553954	554330	554368	553792	555153	555464	555556	556062	556582	556726	557061	556956	555553	27.975	14.837	15.186	15.354

S.V.I.R.CO. Observatory - Rome (41.86° N - 12.47° E, s.l.)

Pressure corrected data - February 2007

UT	1	2	3	4	5	6	7	8	9	10	11	12	DAILY				
DAY	13	14	15	16	17	18	19	20	21	22	23	24	AVG	R1	R2	R3	R4
1	554045	553911	553796	553175	551777	552409	553508	553300	552360	553354	551927	553696					
	553612	551492	551154	552423	551316	553062	552768	555504	553506	552695	554344	554051	553049	27.990	14.819	15.185	15.366
2	556639	553706	553860	550776	553117	552616	551802	556279	555104	552317	556691	553599					
	551504	554600	552840	554159	553689	554860	554457	555794	555445	556826	556266	556354	554304	27.952	14.855	15.206	15.328
3	555806	557280	558055	556455	556590	554390	555607	555567	558084	556776	557582	554591					
	557088	556428	556330	555501	557398	557309	555353	557812	557117	556358	557350	555176	556500	27.989	14.833	15.177	15.318
4	555804	555257	558278	557753	557239	558519	559430	560672	558186	559398	556229	558487					
	557809	557163	557196	559123	561189	557119	556899	558582	558134	557635	557898	557407	557975	27.942	14.847	15.192	15.346
5	558410	557391	557729	558526	558441	558405	556867	558742	560297	558451	557673	557089					
	558998	557383	556088	556044	557104	554881	558662	560362	559729	558784	560867	556849	558074	27.980	14.855	15.182	15.332
6	559187	559913	557567	558826	557880	557497	554435	554593	557577	554846	557192	556192					
	555277	554698	554778	555085	553019	554870	555468	554513	553434	552510	552102	553855	555638	27.938	14.828	15.181	15.364
7	553349	553123	556514	553386	553272	555743	554439	553569	554646	553442	555534	553932					
	556010	556637	554701	555670	556190	554479	553832	556067	551811	554296	552949	554751	554514	27.926	14.837	15.204	15.344
8	551343	553032	554294	553206	553088	552846	554115	551403	554763	553520	552927	555788					
	556603	554934	554591	553653	552671	555314	552552	550429	553644	552018	552031	552049	553367	27.986	14.841	15.172	15.332
9	553508	549423	551549	552257	551848	554174	550202	553557	553004	554891	555774	555435					
	554078	553468	553553	553231	553428	551780	554177	552598	554337	553420	554065	552495	553177	27.984	14.834	15.194	15.332
10	551799	554179	554271	551997	553567	553136	553981	551356	552630	553015	552848	553504					
	552506	552577	554574	554290	553122	553850	552474	552919	553272	553011	553344	552745	553124	27.915	14.867	15.200	15.340
11	553162	552503	552204	554376	555433	553214	555579	555211	554424	553465	554628	554018					
	556772	556654	555114	556660	552818	552252	555391	555030	554240	556205	555233	551970	554440	27.953	14.824	15.218	15.314
12	552541	552568	553062	552310	553427	554477	554767	552252	553389	554884	557213	553640					
	553938	553375	553790	553406	554567	556025	552086	551732	553220	552452	555572	551749	553602	27.930	14.856	15.233	15.320
13	552302	551989	550747	552167	552514	553014	552358	551004	554024	552471	552889	552873					
	551407	555354	553394	554954	553752	556535	553366	554824	549265	551095	551437	553372	552796	27.965	14.850	15.176	15.351
14	552523	553406	550787	551923	550979	551600	552643	552115	554437	555138	556769	556392					
	554133	555335	553007	555557	552815	551732	554057	552763	550677	552619	550729	551621	553073	27.961	14.836	15.187	15.369
15	552815	552849	552835	552281	552183	554328	551750	553341	552584	554809	555499	550843					
	554750	556087	557098	554588	553323	552434	552216	554169	552200	552041	552967	551360	553306	27.960	14.836	15.178	15.331
16	550434	550241	550122	550327	550569	550443	554191	555498	551361	552867	555384	555149					
	553487	554104	551879	552641	555340	552818	554314	552960	555585	553450	553120	551143	552809	27.981	14.872	15.168	15.327
17	552723	551301	553879	551405	553319	553337	554977	554622	551844	554140	553866	553212					
	552768	551710	553895	553808	553451	554248	554900	553652	553615	554927	556578	553031	553550	27.953	14.842	15.214	15.356
18	554021	553132	552942	552184	553367	553433	552810	552915	553546	556031	555088	558879					
	557258	553886	555517	553373	555973	556660	554348	552834	555570	554340	552366	553563	554335	27.962	14.864	15.172	15.342
19	552479	553027	552878	551689	554397	552518	553009	553830	553506	554195	553591	554579					
	554900	555493	557362	556373	556597	558007	558616	557472	557601	556418	553067	552964	554774	27.927	14.866	15.218	15.348
20	555664	552694	553786	554731	553682	555041	555043	556529	556014	555441	556759	556419					
	556130	553971	556603	556717	558460	557362	555593	556123	552501	551001	554255	552920	555143	27.978	14.805	15.167	15.392
21	553196	553340	552425	552505	554644	551587	555741	553131	555177	557093	556123	556914					
	555814	558257	555363	555036	555961	552741	556540	554351	555589	552371	551760	551666	554472	27.971	14.846	15.173	15.346
22	553852	554948	553391	552456	554125	552718	554206	556847	557508	556454	556337	556996					
	554758	555720	555927	554393	555013	556367	555532	553962	556591	555855	556690	555446	555254	27.948	14.833	15.185	15.347
23	557694	556775	555823	558523	556774	557540	559323	556998	558501	556242	555869	555951					
	556442	555726	557768	555204	555131	555561	557748	555867	557157	555923	556771	556860	556757	27.961	14.814	15.182	15.360
24	555655	558095	558396	557294	555657	560575	557985	556624	556510	556006	555935	557712					
	556001	556461	556330	555755	556304	556656	557037	558342	555256	555098	557184	555748	556776	27.956	14.833	15.200	15.338
25	555651	558261	557996	555386	556032	557900	556240	557763	558156	554150	558822	555168					
	558575	557820	555769	557011	556229	556751	554453	555448	555665	555388	557144	555745	556563	27.950	14.851	15.200	15.325
26	557297	555863	557385	558370	556944	559497	561996	558668	558546	558774	558956	555796					
	555546	558915	555005	555201	555153	553193	554705	554131	555899	552034	555546	556951	556682	27.938	14.855	15.184	15.365
27	556789	555306	556537	555523	554980	555724	555013	553783	555965	556613	559002	558924					
	556375	555388	556181	556334	558075	557118	557695	557719	557037	552926	555234	556763	556292	27.929	14.842	15.185	15.346
28	556920	554166	556829	556699	556384	554355	556384	555855	558763	557712	559249	558191					
	560753	559250	554835	557958	556851	555760	553217	552546	554751	552394	552434	553720	556082	27.971	14.840	15.171	15.355
MONTHLY	554486	554203	554569	554161	554365	554680	554943	554858	555390	555232	555941	555499					
AVG	555475	555460	555023	555148	555176	554991	554945	554947	554745	554075	554618	554012	554873	27.957	14.842	15.189	15.344

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Pressure corrected data - March 2007

UT	1	2	3	4	5	6	7	8	9	10	11	12	DAILY				
DAY	13	14	15	16	17	18	19	20	21	22	23	24	AVG	R1	R2	R3	R4
1	555710	554076	553726	554333	554185	554938	556878	555291	555034	556660	557157	557254					
	555911	557514	557005	556148	555684	555010	553696	553317	553593	553336	552400	555077	555164	27.969	14.816	15.186	15.338
2	554775	555714	555320	555021	556588	557877	555546	557308	555720	554919	556977	556328					
	556062	556221	556842	555619	557802	557822	553505	555877	556154	556521	555349	555161	556043	27.998	14.834	15.172	15.347
3	556949	556123	555253	556125	553432	556208	556815	557325	555356	558083	553501	557154					
	556458	558718	553708	555798	555084	556578	554296	554432	554167	555435	553811	555019	555659	27.940	14.838	15.224	15.350
4	554734	556357	554921	554828	557792	555744	559538	557009	556914	558713	558566	558498					
	558714	555445	555658	556903	557470	555803	556892	556042	553532	556146	556372	555011	556567	27.974	14.827	15.165	15.356
5	556271	555741	552279	552066	555958	554696	554801	554430	555245	555807	558125	554628					
	557003	555210	556020	555117	553516	552086	552779	555078	553045	551885	554407	554859	554627	27.957	14.840	15.192	15.348
6	555841	555186	554667	554666	556099	557915	558058	556980	559153	556787	559640	561130					
	561002	556405	554694	555095	555828	555249	555079	555953	556052	556581	555682	558901	556777	27.948	14.851	15.176	15.347
7	555310	555808	557817	554760	555807	556749	557745	557717	556765	558016	557153	559111					
	557614	560848	558194	557847	554143	555425	554139	558342	555935	555245	554223	560088	556867	27.944	14.816	15.198	15.347
8	555257	557347	555915	556859	557478	557818	557805	560616	558685	558498	558725	558301					
	558836	560146	558272	556816	556885	557398	556890	553538	556290	555293	555411	553906	557208	27.972	14.867	15.172	15.331
9	553330	556271	554186	555284	555821	556977	558697	556301	556825	558076	558811	557547					
	557055	557985	556467	554413	555431	558604	555757	558088	558596	557590	555436	554283	556576	27.981	14.819	15.180	15.325
10	555908	552954	553736	555528	554659	557331	556139	556610	556785	557292	559626	558003					
	557096	557607	558918	557700	559383	558209	558352	558170	559633	558490	560579	558625	557389	27.981	14.838	15.181	15.354
11	557401	559529	561422	558112	560091	562803	557100	560653	558749	559433	558437	561987					
	559674	560041	557615	560103	559688	560287	558927	558156	557050	556639	557753	556380	559085	27.950	14.854	15.168	15.366
12	557563	559036	556817	558448	556573	558009	558331	560392	556812	556197	558327	558487					
	560167	562409	557378	559089	557151	556007	556733	557970	554541	555492	555698	555879	557646	27.973	14.816	15.185	15.344
13	556708	554314	555795	557544	556223	558457	557291	556120	559441	559476	557883	560035					
	557874	557757	558739	561114	556896	558433	557447	556044	557411	558676	554999	555499	557507	28.007	14.822	15.179	15.361
14	555581	557821	556852	556727	556555	556457	556872	556333	557101	558761	559007	557955					
	558092	557866	560443	560789	553738	558954	556966	554652	556975	557785	556407	555806	557271	28.001	14.828	15.172	15.359
15	555303	556708	556087	558876	555735	558188	556311	557014	557478	556837	557548	557064					
	561020	557830	559113	558847	557183	556668	557274	557598	558347	558523	559310	559701	557690	27.996	14.844	15.172	15.348
16	558491	556856	558282	558005	558873	557973	558260	560301	559059	557584	558449	559763					
	557193	557520	557938	558127	557829	557835	557273	558595	558803	559387	559165	557431	558291	27.968	14.847	15.175	15.350
17	558330	557917	556146	555599	557276	558448	560521	558327	558602	558962	561667	560012					
	559089	559962	556558	558749	561095	560198	558352	562620	559108	557320	558632	559105	558858	27.993	14.834	15.184	15.336
18	558908	555719	557861	560489	558423	556657	559521	557742	560021	562905	559738	559103					
	560535	560439	559001	560862	559326	560438	560804	559674	558617	560540	559884	559250	559436	27.947	14.829	15.207	15.356
19	557398	558526	557710	557368	558783	559815	559512	562155	563988	560176	558541	560936					
	562816	562298	562117	562275	561945	561992	561664	561719	560999	561577	560912	560563	560658	27.981	14.841	15.191	15.337
20	559912	560520	560140	562066	558729	563707	562365	562782	562616	564469	562848	563850					
	564567	566145	564752	563519	563408	565310	563662	561967	562887	561615	561350	562522	562738	27.950	14.837	15.177	15.366
21	560661	558347	560531	559986	560797	559499	561159	561721	562596	562643	563125	563467					
	562851	562660	564162	562913	563433	565287	562902	562282	561848	561152	561038	561060	561922	27.926	14.835	15.198	15.346
22	561618	562284	560377	560788	559221	559078	560071	560502	561240	562282	562849	560697					
	561919	561929	560896	563188	559814	562002	561874	561585	561948	560549	561661	562873	561302	27.972	14.845	15.198	15.344
23	562883	561830	561528	562277	563560	561914	561764	563661	558991	562189	560913	557753					
	558810	557614	562256	562249	563203	562148	559419	562472	560436	558704	561264	559851	561154	27.942	14.847	15.190	15.350
24	561332	562111	559856	561902	561166	561940	564052	563793	562886	563549	559468	560761					
	561220	561331	557110	557173	559781	559790	557701	558755	558169	556536	559442	557030	560286	27.940	14.836	15.209	15.355
25	556008	556054	554313	557223	554348	553613	555396	555256	554102	556732	557548	557655					
	558395	559836	556812	556840	555573	555668	554110	553594	555779	554625	556869	555958	555929	27.967	14.828	15.180	15.346
26	555871	555723	556001	555360	557213	557287	554888	557455	557393	559651	559370	556961					
	558903	557902	555321	557320	557687	556140	557950	557256	553445	556711	556589	556155	556856	27.963	14.836	15.187	15.342
27	555157	557077	556147	554741	556198	555212	556499	557739	557266	558429	558823	558943					
	559103	558737	557825	558638	554512	556621	555944	556889	555078	556278	555145	556739	556823	27.972	14.874	15.170	15.334
28	555758	557088	555566	554928	557063	556742	557024	559397	558281	556962	558782	557062					
	557551	558542	558112	558680	560039	556482	559135	555986	557182	556731	558871	556696	557444	27.970	14.845	15.181	15.329
29	558212	559170	556815	555807	557409	557469	557509	557411	560641	558468	558885	559735					
	560158	559963	557468	559315	558462	557726	559868	558469	559150	557934	556282	555370	558237	27.960	14.826	15.206	15.342
30	558108	556275	558040	558156	559411	559166	560377	559235	558033	559860	560136	561006					
	558525	561880	561218	560320	558173	559589	559624	558340	556976	557845	556037	558423	558948	27.944	14.838	15.210	15.369
31	558881	557293	559673	555216	556887	556533	557784	559978	556646	556702	560303	559803					
	557558	555827	555521	557971	558867	556111	556076	557530	556715	555712	556011	553938	557231	27.962	14.831	15.202	15.340
MONTHLY	557231	557283	556896	557067	557366	557910	558214	558631	558336	558875	559062	559064					
AVG	559089	559180	558262	558695	558033	558254	557584	557774	557370	557318	557322	557328	558006	27.966	14.837	15.187	15.347

S.V.I.R.CO. Observatory - Rome (41.86° N - 12.47° E, s.l.)

Pressure corrected data - April 2007

UT DAY	1 13	2 14	3 15	4 16	5 17	6 18	7 19	8 20	9 21	10 22	11 23	12 24	DAILY AVG	R1	R2	R3	R4
1	557005	557951	555570	558740	558292	557706	557710	559980	559108	559880	559599	560532					
	562533	563068	557867	556047	558256	558950	555782	557404	556701	556739	556028	556412	558244	27.959	14.866	15.193	15.334
2	555932	556780	559197	556874	553897	557330	557051	556957	558463	559726	562766	560436					
	563318	558391	559594	560485	558926	556144	558154	555663	556370	559909	558919	559439	558363	27.984	14.851	15.179	15.338
3	557238	556793	556048	558994	559566	558831	558865	559768	560675	558786	559621	561298					
	559261	560720	558742	557451	558161	556984	556822	555237	556103	557188	558203	558997	558348	27.964	14.842	15.203	15.349
4	558812	558809	558760	559194	558254	559445	560811	561123	562056	562182	562580	561590					
	561427	560581	559530	559868	559830	559273	559559	559422	559214	558190	558467	556209	559799	27.974	14.848	15.200	15.345
5	559331	560152	559261	560441	558779	559897	559190	562083	562153	562176	563756	562116					
	561923	562296	563419	560988	558824	560663	559742	559502	558365	558070	558367	558568	560419	27.953	14.855	15.187	15.361
6	559196	559028	559409	557640	559085	558417	558933	560787	558679	559009	559900	562096					
	561398	560860	563653	562463	561117	561008	559305	560218	562077	559735	559660	561895	560232	27.956	14.837	15.190	15.340
7	558391	558274	558370	558552	560965	558549	558556	561638	560278	560437	560889	560916					
	561474	562683	561326	563707	561161	562812	560967	560871	560064	560647	557438	560343	560388	27.997	14.843	15.209	15.350
8	560057	559150	561040	560632	559675	560444	561071	559342	561984	562197	563184	561954					
	561200	564004	562572	562220	562230	560528	560237	560879	560733	558779	558388	556817	560805	27.960	14.835	15.185	15.332
9	556035	555329	556008	557682	559727	556963	555558	555976	555974	557646	558313	556461					
	559460	557995	561706	560260	559720	557953	560697	559360	557951	559058	558658	558065	558023	27.971	14.844	15.193	15.348
10	557166	557912	557640	559414	557660	559011	557636	558413	559087	558794	560452	559713					
	560125	560924	559767	560265	558816	562381	559927	558908	558885	558493	557072	559072	559064	27.948	14.835	15.170	15.362
11	557565	556691	558745	555830	555680	558319	556199	558355	560392	559400	558492	559307					
	558906	560942	563036	558903	559904	558782	557988	560295	558189	558106	556829	555254	558421	27.976	14.847	15.193	15.359
12	558207	555656	557887	558281	555967	558401	558655	558391	558583	559139	563609	559619					
	561406	560946	561155	558221	561512	560197	560492	559984	558887	558602	559647	558154	559233	27.977	14.816	15.200	15.333
13	560056	557775	559137	559276	560575	560682	561722	559574	559039	562161	563133	559238					
	560872	561594	559989	560959	558868	559297	559966	557678	558607	556379	559333	560666	559857	27.988	14.848	15.173	15.340
14	557909	560065	559985	557386	557734	556722	559222	562120	557633	562679	559466	560524					
	561274	557979	560763	557823	558207	559170	559867	555305	557451	558732	555558	555899	558728	27.965	14.827	15.202	15.307
15	558781	558110	558941	562005	558269	558163	559804	561823	562879	562824	562074	565642					
	562911	561005	560962	561386	562000	562770	559063	560492	561234	559547	559329	559506	560813	27.959	14.855	15.193	15.345
16	557819	560449	560430	560291	561003	561631	562574	559855	561933	562435	559988	562423					
	561838	561029	563493	561064	560087	563443	561438	558420	557778	562864	562730	562042	561127	27.944	14.852	15.201	15.348
17	561418	560900	560977	560598	561471	561506	558864	559523	562133	560484	562107	565243					
	566695	564800	564873	562826	562659	561267	560026	561425	561138	561172	559710	559629	561727	27.913	14.881	15.202	15.327
18	558106	559154	561443	560162	558501	562302	560505	561232	563497	562426	559858	561938					
	560106	560449	560032	560797	562407	561742	560754	562599	561667	560230	563770	559631	560971	27.951	14.853	15.194	15.326
19	559923	561064	560878	559767	561047	563529	562395	561275	560463	562419	562006	563598					
	561135	562269	562110	560827	561689	560618	561148	561825	559932	561605	560179	560837	561356	27.943	14.835	15.211	15.342
20	562555	557607	559568	560447	561516	561611	561914	559559	560857	563047	565045	560316					
	561900	562215	563112	560328	559929	559358	560146	559472	559971	562306	557053	557064	560704	27.955	14.840	15.204	15.339
21	555588	560055	561066	559464	560807	560503	562182	561909	560013	561235	564584	562933					
	561961	562177	561971	562729	559447	559372	559862	558416	559333	557803	558695	555582	560320	27.954	14.867	15.202	15.348
22	557553	559411	557932	558495	559032	559379	559838	561722	559073	563133	561863	561006					
	560628	559131	560741	561184	560456	556854	556798	556584	556921	555523	556397	552945	558858	27.988	14.839	15.170	15.363
23	556931	556682	557086	556220	556560	560481	560212	560640	559359	561206	563365	560507					
	558932	560201	559165	558399	557804	557888	557224	557630	559359	557687	557746	555970	558636	27.969	14.859	15.173	15.348
24	556937	556356	555526	557276	556035	556598	557561	555649	557745	560374	560887	557198					
	557376	558880	559002	556521	558220	556270	557124	556049	556623	555557	557437	557952	557298	27.951	14.834	15.184	15.355
25	558642	557956	557623	558382	555781	558454	557929	558454	558940	558658	558660	556919					
	558931	558064	558202	558240	558020	561199	561043	560995	560796	560129	560331	559868	558842	27.968	14.849	15.171	15.351
26	558258	561005	556483	558707	558956	558115	558533	559290	557200	560529	559434	561245					
	561266	561789	559517	557553	560492	558157	558794	562640	561858	561452	561947	559399	559692	27.972	14.828	15.186	15.368
27	562893	561367	558617	560124	561715	559845	562206	557420	557157	559160	559542	559547					
	561036	559926	560693	558241	558793	558548	560476	559772	559763	561250	560688	559526	559929	27.940	14.856	15.186	15.347
28	559443	558463	562265	560534	560994	560742	560233	561704	561073	563884	563597	560953					
	562336	561129	561454	562712	559587	561033	557026	557327	559890	560362	558607	559660	560625	27.987	14.827	15.171	15.339
29	560061	560319	557743	560037	557854	560436	560336	560836	562353	560319	561371	559808					
	563166	561873	559887	561540	561616	561342	559153	559155	559948	558832	561275	560344	560400	27.967	14.851	15.209	15.320
30	561272	560109	562279	559575	556969	558341	561605	559762	562766	561986	561823	562522					
	560736	560602	559924	559982	559244	562093	561315	559547	561068	559945	558570	560179	560509	27.964	14.838	15.183	15.366
MONTHLY	558636	558646	558864	559034	558746	559412	559596	559839	560051	560944	561399	560920					
AVG	561184	560951	560942	560133	559933	559870	559363	559102	559229	559163	558901	558531	559724	27.963	14.845	15.191	15.344

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Pressure corrected data - May 2007

UT DAY	1	2	3	4	5	6	7	8	9	10	11	12	DAILY				
	13	14	15	16	17	18	19	20	21	22	23	24	AVG	R1	R2	R3	R4
1	558065	560831	560137	558292	558860	560363	560940	563199	560597	562460	562172	563061					
	561454	562356	561153	559758	561997	561980	560170	561990	560769	559796	559388	559324	560796	27.978	14.826	15.178	15.354
2	558656	559574	560121	561926	561765	561291	561049	563093	562192	560492	563463	562300					
	564265	564713	561772	562821	561200	561344	560402	562217	558986	560414	559279	558433	561324	27.961	14.853	15.184	15.356
3	559287	558566	566109	556411	560046	559555	559579	558966	563087	561330	562205	562866					
	563714	561726	564302	559352	561513	561352	562247	561019	559881	561122	559601	560544	560599	27.959	14.819	15.195	15.359
4	560943	557785	557894	560537	559116	561310	560200	559077	561997	561365	563899	561369					
	559047	558871	559994	561193	558795	560650	560609	560758	559239	558482	556177	557038	559848	27.926	14.844	15.196	15.348
5	559003	558962	559163	559560	559407	556900	560580	560168	561803	562860	561705	563137					
	561620	562050	561483	562977	560886	560886	561519	563320	560972	562092	560738	560960	560948	27.947	14.827	15.208	15.345
6	559807	557509	559672	560553	559684	559371	560746	561518	563228	561376	562004	563351					
	562499	562713	564366	560301	562695	561499	564448	561103	559880	557870	561802	557238	561051	27.960	14.834	15.210	15.363
7	558687	559016	561215	558075	560429	559495	561785	564006	563447	561696	561954	561803					
	562213	561559	560545	565591	563192	563024	561219	560944	561118	561158	559075	559021	561261	27.961	14.850	15.198	15.340
8	556254	558153	557456	558952	559180	559760	558922	559117	560228	561055	563583	560945					
	561103	560508	562352	561830	559000	559556	560398	559105	558390	560403	559141	559058	559769	27.925	14.847	15.183	15.372
9	557457	557769	557702	556538	555848	557738	557603	558992	558613	559874	559838	559576					
	560894	559231	560611	558277	557495	560034	558718	560348	558857	558203	558609	559057	558662	27.944	14.859	15.183	15.364
10	557070	557481	559493	555562	556725	557537	559285	559121	560538	558305	558453	557598					
	559460	561735	561159	560619	559702	559928	561735	559759	560738	559704	559882	558760	559181	27.970	14.838	15.199	15.338
11	559137	560020	559768	558633	558198	559919	558024	561573	559652	557547	559311	561436					
	561185	561230	561167	560916	562734	559506	560418	558856	558397	558550	560092	558568	559785	27.931	14.824	15.213	15.373
12	558157	559552	559563	560071	558762	558164	558219	560959	559670	559942	559790	560557					
	560103	560892	559650	561590	559402	563381	557050	558942	557711	557486	555133	558924	559320	27.961	14.829	15.169	15.340
13	559646	557967	557773	561092	556459	558476	559016	561463	560711	560739	561892	560637					
	561119	561123	563002	562122	561267	560248	560747	562071	560157	558527	560357	555291	560079	27.968	14.848	15.204	15.322
14	556764	557392	556629	558406	556973	557685	556861	558215	561005	559262	559466	560216					
	563743	561210	560594	560101	562674	561788	562047	559903	560159	559805	559468	560151	559605	27.930	14.843	15.200	15.357
15	557081	558061	556924	558954	561308	561054	560404	560604	560548	562097	562067	560294					
	562659	562300	561967	562489	561355	564197	560096	562360	561057	560623	558882	563569	560873	27.947	14.850	15.171	15.363
16	561131	561649	560860	560620	561283	559993	560853	560592	561492	562258	563825	563162					
	562631	563054	561130	562357	562559	562930	561515	562102	560220	562890	560495	559133	561614	27.929	14.871	15.201	15.317
17	562699	561958	561168	562335	563499	562567	562358	562843	561447	565347	565943	562749					
	565315	563670	564771	561739	561069	561712	562414	562393	562054	560632	564448	564200	562889	27.946	14.863	15.200	15.339
18	564709	564501	564158	564702	564890	563795	559571	560554	561138	562854	561144	562609					
	567197	563469	565299	562271	563077	560358	560021	560683	558816	557554	556412	555274	561878	27.948	14.825	15.217	15.345
19	556898	556095	556567	558445	556385	555763	555676	555069	556719	555977	556562	559711					
	558432	557976	558839	556911	559452	558370	558619	557857	557267	556554	557200	556611	557248	27.980	14.865	15.201	15.307
20	556085	556142	556824	554429	555993	555133	556329	558012	557492	556065	558835	557200					
	559836	558143	559550	557423	558045	556500	557738	557230	557446	559013	558989	554254	557196	27.955	14.830	15.182	15.363
21	556329	554727	556796	558811	555667	557829	559592	558373	558980	558971	562730	561115					
	559871	561417	558549	559262	556499	553569	553854	554653	553579	553063	555127	552981	557181	27.971	14.823	15.167	15.356
22	556030	550662	553344	552877	552239	552090	550757	551516	549549	547625	550466	550155					
	550710	551820	548606	550407	550315	551506	551287	552277	553620	552835	554548	553384	551610	27.958	14.852	15.208	15.352
23	552666	552257	554880	552577	552866	554473	555870	554732	558052	556439	558171	561576					
	557666	559618	557677	557887	555643	554957	555723	557720	555203	556471	557332	558547	556209	27.951	14.848	15.176	15.378
24	558156	557119	555464	556946	558208	557118	557798	558221	560651	560197	559077	557733					
	557894	559498	559808	557534	559225	557913	559232	556654	557346	556032	558249	555567	557985	27.939	14.853	15.196	15.347
25	557034	555043	557059	554983	554921	554107	556286	557337	557908	557683	558576	560312					
	559853	557652	556953	561076	559161	559293	558910	558836	558190	558371	555368	556587	557563	27.976	14.849	15.178	15.348
26	555220	558275	556321	555779	554936	553537	557208	555600	557312	557950	558119	559396					
	559472	559309	558511	558253	558454	558512	557549	556170	554234	555785	556057	557210	557049	27.938	14.841	15.193	15.339
27	553969	556083	556509	557367	554918	554975	557540	556257	556892	556581	557487	559837					
	558382	559401	558054	558685	559666	557166	557847	555774	557861	555344	557934	556437	557124	27.953	14.830	15.206	15.376
28	555205	555614	558060	556489	559071	557079	557047	559649	559249	559073	559226	557591					
	560922	561707	561701	559283	558668	557304	555620	556153	558509	556401	554583	558924	558047	27.937	14.841	15.203	15.355
29	556248	557617	558841	557509	558410	558555	560685	558621	558003	556963	561736	559172					
	559660	561077	560050	559047	557723	557621	557680	555396	555824	554163	555493	556071	558007	27.952	14.823	15.195	15.354
30	555936	557334	558313	556864	558035	556684	556427	556150	558621	557972	557248	559189					
	557885	560350	559010	559507	559510	556994	557937	557478	558685	558064	557167	557758	557880	27.980	14.827	15.176	15.348
31	557574	558121	557093	555862	557046	555115	558564	557646	556836	559226	557876	558894					
	558243	558315	559709	562554	559920	557350	558168	556471	557601	559152	556681	559797	558076	27.971	14.825	15.184	15.346
MONTHLY	557803	557801	558125	558070	558101	557982	558573	559073	559602	559406	560285	560308					
AVG	560614	560603	560398	560133	559771	559401	559224	559050	558476	558276	558184	558022	559053	27.953	14.841	15.193	15.350

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Pressure corrected data - June 2007

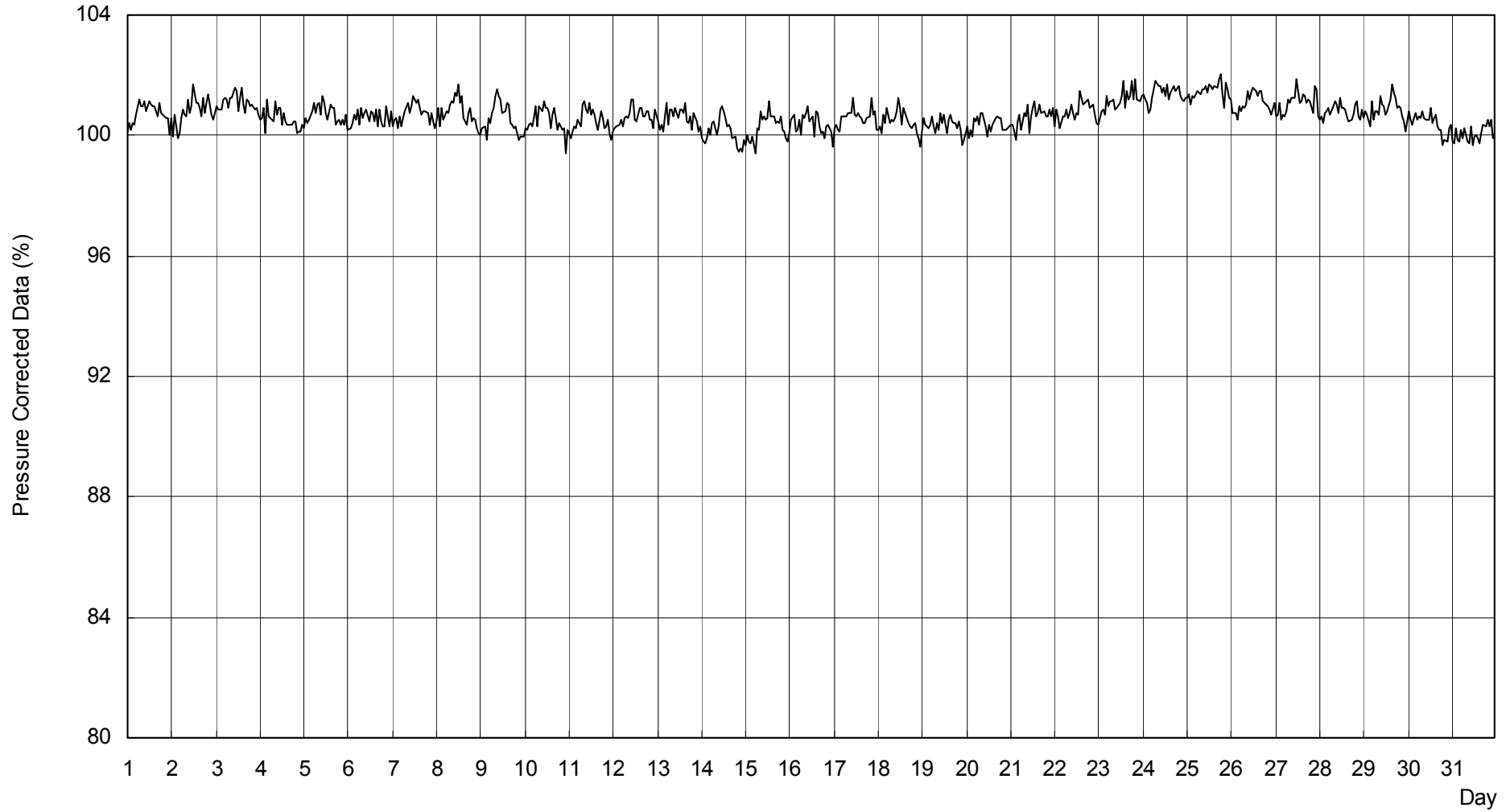
UT DAY	1 13	2 14	3 15	4 16	5 17	6 18	7 19	8 20	9 21	10 22	11 23	12 24	DAILY AVG	R1	R2	R3	R4
1	558149	558767	556254	558930	558755	558204	561068	559327	560255	559329	558988	559526					
	558985	557137	561093	560412	555633	557494	558150	557378	556443	557180	554458	558391	558346	27.969	14.823	15.170	15.352
2	556479	556725	556608	557480	558338	557496	557242	556791	557061	556585	555174	554032					
	557740	556579	555673	557370	557076	558732	558506	560199	557064	559068	556426	555291	557072	27.942	14.835	15.188	15.351
3	557432	555477	558867	555841	554621	554297	554272	556403	554359	552391	553649	556512					
	557543	554953	555632	555155	555430	554172	556618	556990	556999	556353	558637	557358	555832	27.949	14.817	15.187	15.375
4	555590	555462	555054	555897	554440	556451	555179	554222	555078	556232	555486	555461					
	557774	558690	559292	556569	557537	555638	559022	559631	556656	556114	555856	557754	556462	27.960	14.845	15.184	15.341
5	557241	556012	557750	558010	557407	558749	557149	557244	557579	559942	557837	558039					
	557612	559715	559177	559633	560502	557047	556207	558557	557235	557931	558458	558252	558054	27.943	14.854	15.213	15.331
6	557359	556913	555874	555999	558021	558177	558966	556257	558316	559890	560463	558866					
	558000	559246	559216	557367	557713	559000	556796	561834	558420	557777	558256	558030	558198	27.989	14.792	15.201	15.346
7	558231	559235	558360	559464	559486	559544	560384	560297	560838	559624	559813	559573					
	558882	560496	558319	558044	559028	559883	557284	558725	557307	559724	557305	559532	559141	27.938	14.839	15.204	15.362
8	557269	559303	559387	561528	558989	558013	558484	560855	560724	560670	560289	560482					
	558831	558084	555343	558187	558067	556960	557432	559354	557878	556780	557145	558496	558690	27.950	14.824	15.186	15.391
9	558347	555786	556874	559217	555806	557290	555910	556723	556768	559075	561369	558397					
	559125	560197	556662	556320	558078	558160	556804	556064	557791	556930	556451	558902	557627	27.946	14.830	15.204	15.369
10	555491	557578	557570	556987	556668	557613	556727	557983	557781	558416	557800	557213					
	559914	558560	558540	557020	558472	558635	560222	557643	556481	558924	558124	558180	557856	27.954	14.854	15.190	15.357
11	560706	556459	558890	557273	558216	554496	556565	557590	556431	555509	557739	559524					
	560824	558418	558297	558374	560141	559754	560163	557545	559200	559668	558940	560012	558364	27.964	14.829	15.188	15.361
12	557154	559435	558242	558678	561670	558194	557524	560178	561608	560189	561044	558747					
	561253	561988	560699	560205	559476	560527	560763	562669	559511	561542	558399	559322	559959	27.944	14.844	15.191	15.346
13	557470	559341	559114	558518	559912	559700	557892	560673	557470	557769	559398	560634					
	561836	561392	557440	562113	559180	559578	561434	560597	560430	562380	560710	556949	559664	27.962	14.835	15.189	15.331
14	556579	559783	558546	556597	558177	559678	561137	559174	560790	561255	565057	560267					
	560361	560444	560521	558951	558477	561176	558681	559260	554778	556588	554079	555492	558994	27.952	14.851	15.196	15.348
15	552685	557370	555034	554477	556550	556350	558596	557031	558297	559618	559473	557802					
	559756	557699	560785	556997	555860	554814	557591	553958	554001	554879	552870	554661	556548	27.977	14.863	15.181	15.331
16	556081	555211	556735	555598	556884	557756	557666	556670	556307	557719	555585	558529					
	557112	557260	559578	555623	559633	558579	560858	556926	557361	558557	556391	557163	557324	27.977	14.844	15.205	15.327
17	558304	558114	556179	555456	557542	558945	557122	557472	557367	557262	557784	557523					
	559263	555463	557763	557697	557773	557504	556776	557179	555876	556723	557459	555964	557271	27.955	14.851	15.176	15.384
18	557594	555881	556502	555190	554026	557321	555171	556610	557881	556627	556590	556276					
	554730	558054	558457	558186	557994	559373	558056	558270	557739	556539	559379	557580	557163	27.962	14.849	15.187	15.345
19	557264	556400	554987	556846	557750	556512	557352	557273	557673	557326	557309	558098					
	556576	558125	557619	562007	558560	559131	560616	558355	558249	558902	554877	559220	557793	27.922	14.852	15.200	15.351
20	555990	558316	556336	555315	556907	555677	556324	555472	557077	559067	558765	558597					
	559121	558046	559057	559214	557191	557709	558413	559764	557023	556276	555814	556089	557398	27.980	14.838	15.158	15.358
21	556036	557042	560286	557811	557248	558281	558833	558342	558406	558970	558362	558978					
	560267	558985	560932	559554	559670	557738	558015	557917	556449	558040	558102	558572	558452	27.952	14.866	15.191	15.335
22	559036	558830	555268	557283	559995	557033	559705	560911	560267	561192	562611	561630					
	560849	559388	557689	558775	558507	555977	558983	557721	556289	558270	558066	557565	558827	27.941	14.849	15.217	15.373
23	554402	555987	557072	555038	553967	556599	556983	556726	560260	559048	559620	558610					
	561618	557484	558528	558952	558866	559281	558539	558127	556588	556203	557041	557348	557620	27.948	14.844	15.184	15.357
24	555385	554855	557144	554764	557667	556702	558118	558168	559531	559535	560179	558096					
	557088	558544	557772	556583	557391	557076	556587	555798	556463	556263	554390	557241	557139	27.963	14.848	15.189	15.345
25	557920	556434	555450	556957	556626	557896	558693	560439	558214	558326	558237	559574					
	559560	555293	559525	559012	557216	555272	557093	556796	554583	556573	556515	557204	557475	27.942	14.837	15.184	15.376
26	557773	556088	556909	554937	555916	553627	558538	557278	556722	558797	558709	559035					
	559039	558275	558720	559643	557158	559450	559203	560350	559405	559155	554081	557118	557747	27.961	14.855	15.184	15.335
27	556193	556192	556600	555931	558376	558031	558032	558636	559564	561209	560085	559319					
	558756	559365	562299	561660	561563	560276	559002	560364	559637	557500	557730	556107	558851	27.983	14.838	15.195	15.349
28	557167	558816	557855	554350	556889	557552	560101	558613	560380	559932	560485	561656					
	561473	562865	560918	560596	562718	560374	558611	557802	557226	558302	558731	558430	559243	27.983	14.848	15.192	15.340
29	560711	561133	558117	557157	559595	559458	557314	557432	559280	559538	559012	559488					
	560780	558139	557714	558414	557239	556935	558213	560361	561222	560430	558388	558332	558933	27.941	14.875	15.173	15.366
30	558700	557665	557380	556808	554741	556986	555526	557218	559583	558664	558933	561512					
	558072	557926	562215	561114	558550	559566	557253	559808	558934	560201	557558	557202	558422	27.988	14.834	15.172	15.356
MONTHLY	557158	557420	557175	556811	557373	557421	557752	557934	558392	558657	558862	558733					
AVG	559091	558560	558849	558658	558357	558194	558396	558531	557441	557993	557021	557592	558016	27.958	14.842	15.189	15.353

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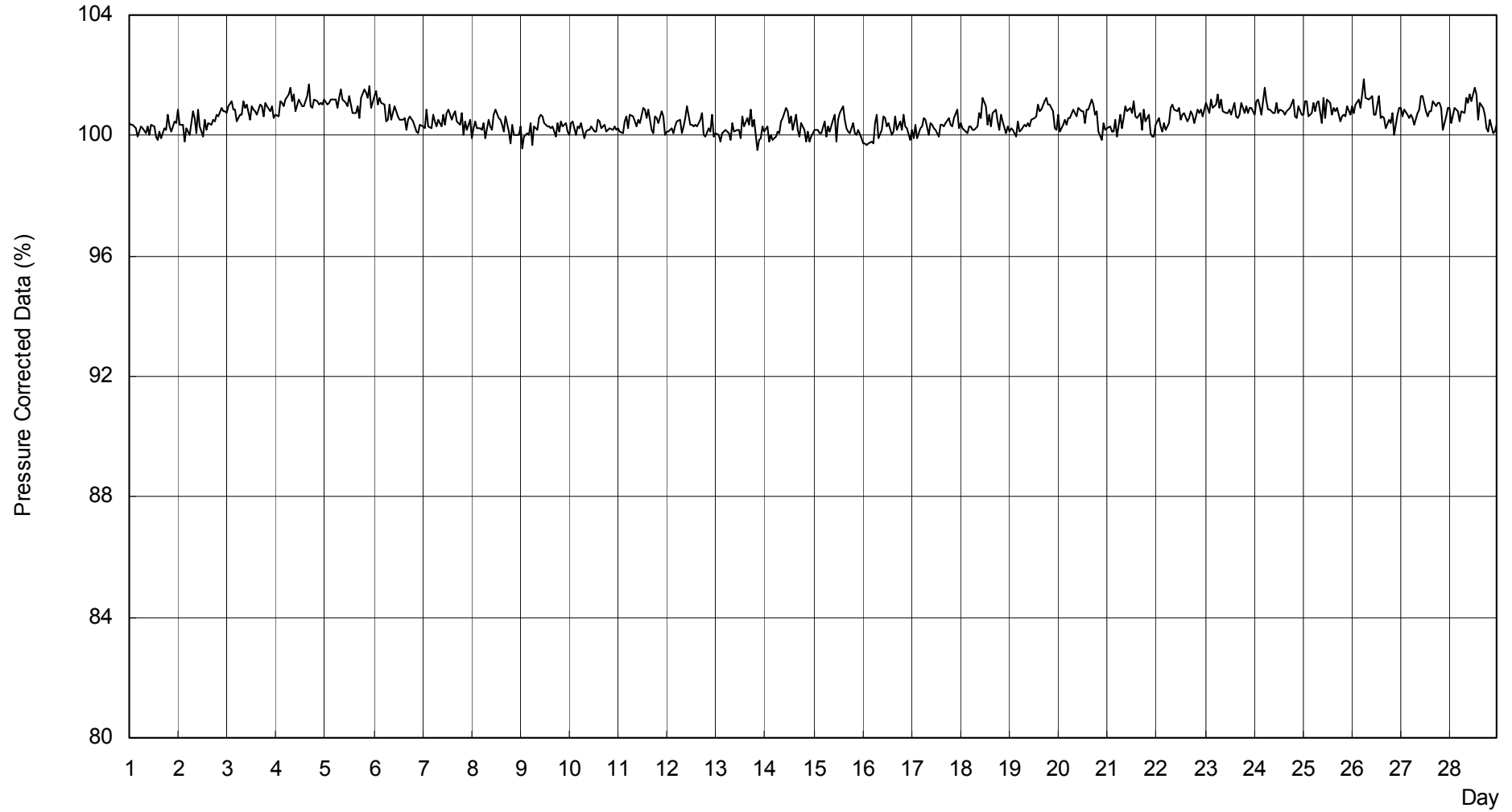
Pressure corrected data - July 2007

UT DAY	1	2	3	4	5	6	7	8	9	10	11	12	DAILY					
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1	556758	556276	555291	557700	555595	555629	558197	559398	561637	558663	557320	560582						
	559708	560368	560040	558501	560483	561975	559954	557216	558140	558171	556389	557542	558397	27.981	14.842	15.173	15.371	
2	557905	557716	557323	556939	555821	558561	558630	557865	557998	562102	558732	560065						
	560168	562812	560874	561435	558631	559712	559259	559617	558019	556185	557202	556676	558760	27.966	14.827	15.217	15.359	
3	558977	557674	556155	557366	557440	556994	558794	558186	557620	557070	560116	559257						
	557976	560975	559658	559153	562475	556677	560064	558447	559808	559362	558450	559864	558690	27.966	14.850	15.184	15.362	
4	556494	556845	554964	556464	556243	559489	560346	559519	560242	557644	559256	557511						
	557481	557291	559287	559400	558434	558531	558815	561034	558927	559358	556292	556255	558172	27.967	14.847	15.206	15.336	
5	558278	558215	557600	558251	557605	559531	558853	558328	560233	559395	560152	562378						
	560238	560578	561724	561275	560281	561502	560912	558991	559976	557473	561116	557685	559607	27.942	14.848	15.193	15.368	
6	556092	556558	556135	558840	557820	558328	559830	558718	560611	560962	561230	558864						
	559804	560617	561919	561279	562665	560288	560535	561637	559597	561051	560645	556518	559606	27.983	14.850	15.175	15.342	
7	559264	558397	557427	558201	560688	558723	560926	560525	558060	560159	559421	559936						
	561310	558916	560090	558542	559751	558679	557236	558488	555976	556609	555750	558286	558807	27.991	14.846	15.186	15.386	
8	559475	559993	558241	557970	558750	560430	560049	561002	559583	561482	562211	561579						
	560425	558781	562886	559706	561071	561102	562491	560202	559957	559165	559750	556396	560112	27.961	14.849	15.184	15.338	
9	557315	560079	557209	557990	558171	558058	560898	560405	563784	561998	563689	562813						
	561514	564718	565500	560869	558258	557985	557421	559319	558699	555346	556876	558002	559871	27.982	14.820	15.192	15.340	
10	556105	555964	558924	555652	556751	558842	560243	561006	563247	561905	562759	562135						
	563343	561847	562083	561753	560770	557420	557877	556803	556653	556479	555886	556837	559220	27.965	14.852	15.205	15.337	
11	558899	560225	562686	561300	558822	561396	558678	560372	559881	561296	561783	561710						
	561331	563661	558929	561756	562165	560416	560291	557855	557942	556019	558675	556378	560103	27.970	14.861	15.179	15.317	
12	559405	560637	558813	559134	560136	558604	559550	559689	558667	559746	559258	561608						
	562108	561762	560053	560204	558728	558393	556922	555622	557909	560115	558879	557357	559304	27.931	14.839	15.205	15.352	
13	556752	558041	555856	558350	556165	558888	559077	559808	560194	560181	560543	560465						
	561224	559617	563017	558823	559840	558922	556816	556168	558850	556244	556249	556938	558626	27.990	14.853	15.187	15.332	
14	556754	558949	559635	562164	561684	561834	559816	560112	559056	557919	557505	557886						
	559218	558769	562319	561505	559235	557975	558781	559964	558341	558215	558211	557335	559299	28.007	14.836	15.200	15.323	
15	555256	556618	556121	559037	559124	557458	558774	559005	560705	558282	559481	559800						
	558772	558136	559150	558945	558313	556168	558237	554639	556659	557133	556518	558040	557932	27.942	14.836	15.194	15.354	
16	557223	557774	555438	558383	557952	555506	554582	559255	561708	559032	558164	558917						
	557962	557982	559607	557998	556084	557631	554965	558413	557912	559881	557823	557082	557803	28.011	14.820	15.176	15.313	
17	558642	558544	558561	556244	558711	556801	556597	556390	557027	558629	558040	559619						
	558125	559332	560610	559789	559077	559472	558826	558656	558626	558655	559417	560713	558546	27.966	14.852	15.184	15.351	
18	558626	557746	558600	559334	560017	557463	558560	557538	557227	557874	558039	560389						
	558691	558202	559066	560014	557417	560026	560551	560552	560031	560891	561659	559122	559068	27.916	14.869	15.190	15.372	
19	560250	560083	557698	557339	558216	557609	558390	559814	560175	559457	560211	558879						
	558446	559628	560639	560205	560414	558612	558602	562514	560484	560804	559648	559110	559468	27.950	14.837	15.197	15.344	
20	559298	561743	557316	559848	560885	560485	557833	555476	559429	560355	559294	558488						
	560260	561139	559713	559061	561322	558042	560660	558133	559539	557224	557642	558864	559252	27.934	14.844	15.190	15.352	
21	557655	555549	555563	555138	555728	555785	558457	558247	559023	558992	560473	558478						
	559124	558203	557795	558453	556816	556091	555485	554155	554286	555133	555261	555791	556903	27.968	14.850	15.196	15.376	
22	554934	554512	555870	555291	553084	555391	557004	556174	558331	556769	553764	555989						
	555611	556263	556343	555592	555403	553141	555694	555205	557466	553189	555039	554920	555457	27.947	14.828	15.180	15.360	
23	554280	553716	556582	553297	553239	555902	556319	554237	556281	556109	558436	558532						
	554109	558876	556311	553572	555531	555332	556240	555685	556951	555020	554451	555337	555598	27.990	14.838	15.181	15.338	
24	556636	557493	554967	556687	555310	555596	555761	554971	557793	555562	557573	558542						
	558211	556665	556544	556827	555940	556581	555761	555897	555453	556111	556881	556450	556425	27.969	14.811	15.202	15.336	
25	557656	558050	557689	556212	558237	556174	556438	557180	556127	557008	557929	559511						
	556560	557112	556004	556224	557732	558809	558163	558993	557276	557985	556889	557806	557407	27.945	14.819	15.229	15.347	
26	557257	555796	557190	558559	557853	556632	557577	557189	555153	558012	560516	556587						
	558496	556164	555017	556771	557581	557066	558274	557865	558361	557733	558484	555769	557329	27.947	14.846	15.194	15.328	
27	556312	554223	557959	558387	560025	556658	556731	559968	556358	557813	556543	559706						
	558361	558622	557340	556934	557879	558037	555915	555280	557685	557541	556807	556910	557416	27.974	14.833	15.180	15.355	
28	555513	557388	557296	556471	558115	560460	559033	559337	556467	558991	561225	558338						
	557832	556507	557835	559418	557286	558031	558645	556606	557533	558814	557135	557614	557920	27.926	14.837	15.194	15.363	
29	557129	556409	558206	558417	558893	555473	558186	557112	556129	558347	557269	554243						
	559179	557494	557005	558754	554295	556598	553857	553172	556492	556410	555622	555754	556685	27.981	14.825	15.190	15.368	
30	555684	554751	556076	554990	556271	556519	557149	558517	557897	558072	558970	557870						
	558952	557086	556383	557171	557267	558116	554990	556113	558410	558205	557509	556841	557075	27.951	14.849	15.205	15.340	
31	555730	557719	556958	557766	555155	555452	555763	555709	556100	555999	555883	553918						
	556494	557213	556893	557374	554489	554979	555480	555086	554479	555387	555613	556818	555936	27.957	14.841	15.203	15.361	
MONTHLY	557308	557538	557237	557610	557694	557764	558292	558421	558798	558898	559219	559180						
AVG	559066	559204	559375	558945	558569	558139	557991	557688	557950	557610	557509	557258	558219	27.964	14.841	15.193	15.349	

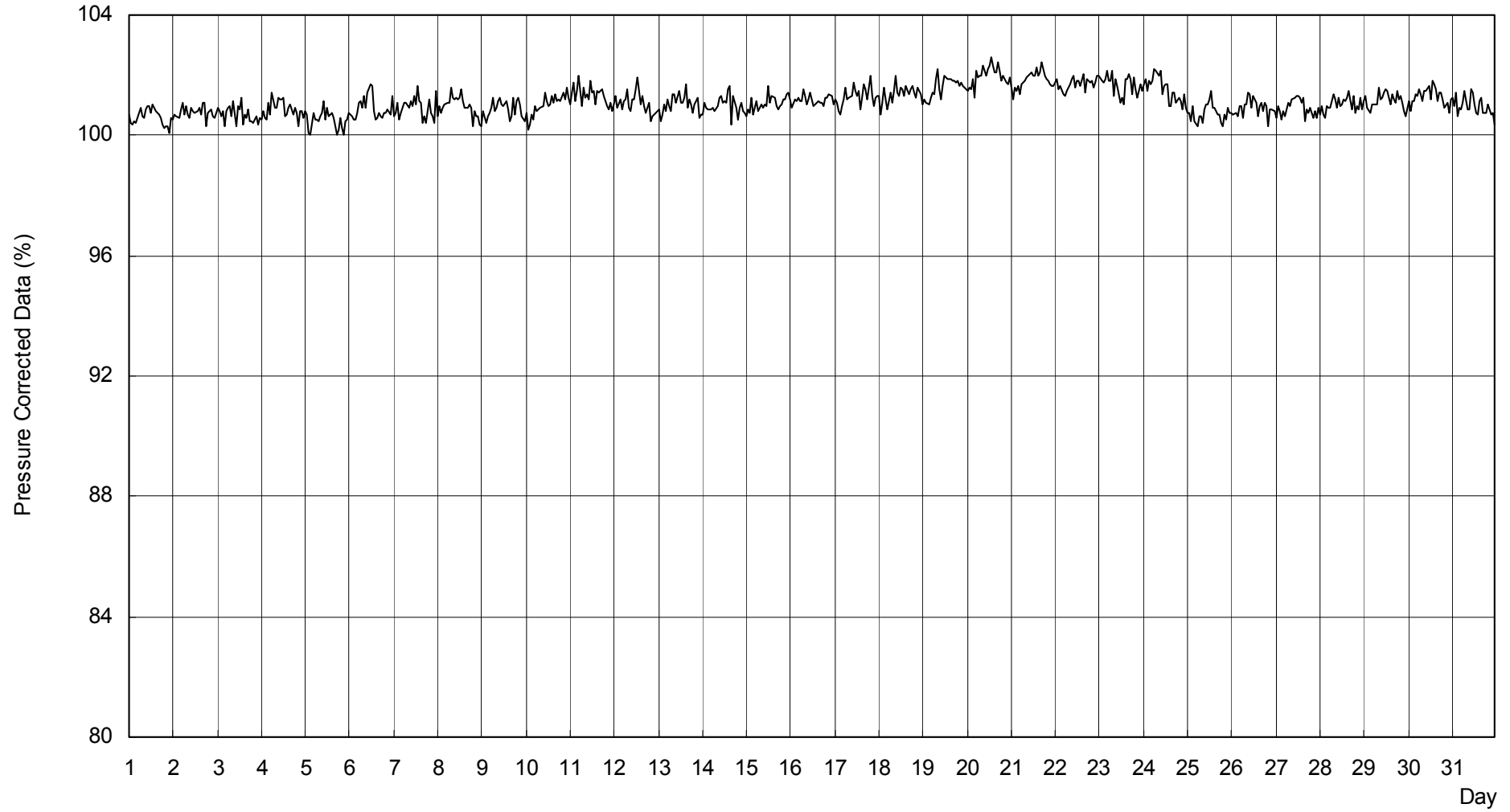
S.V.I.R.CO. Observatory - Pressure Corrected Data - January 2007



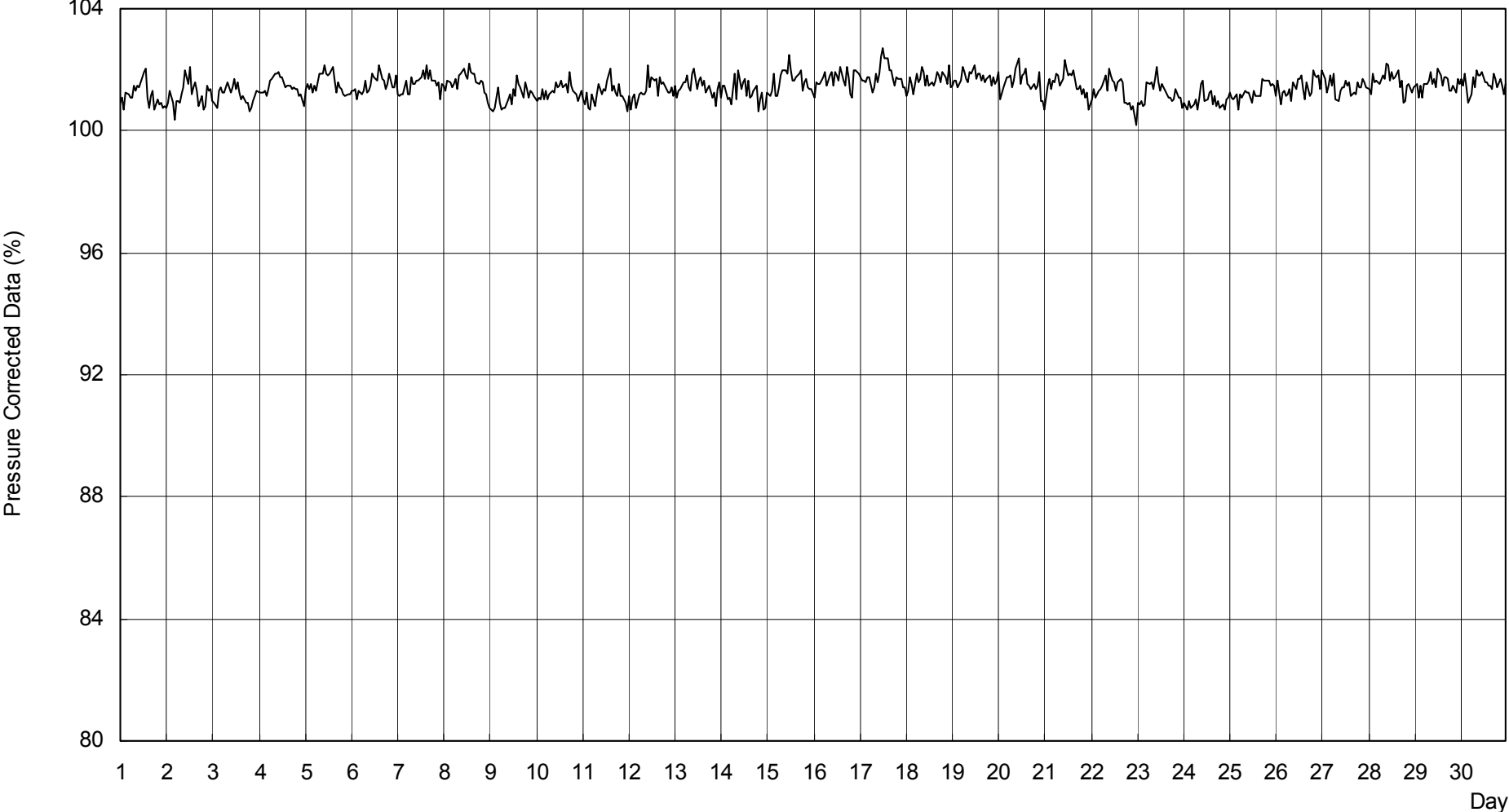
S.V.I.R.CO. Observatory - Pressure Corrected Data - February 2007



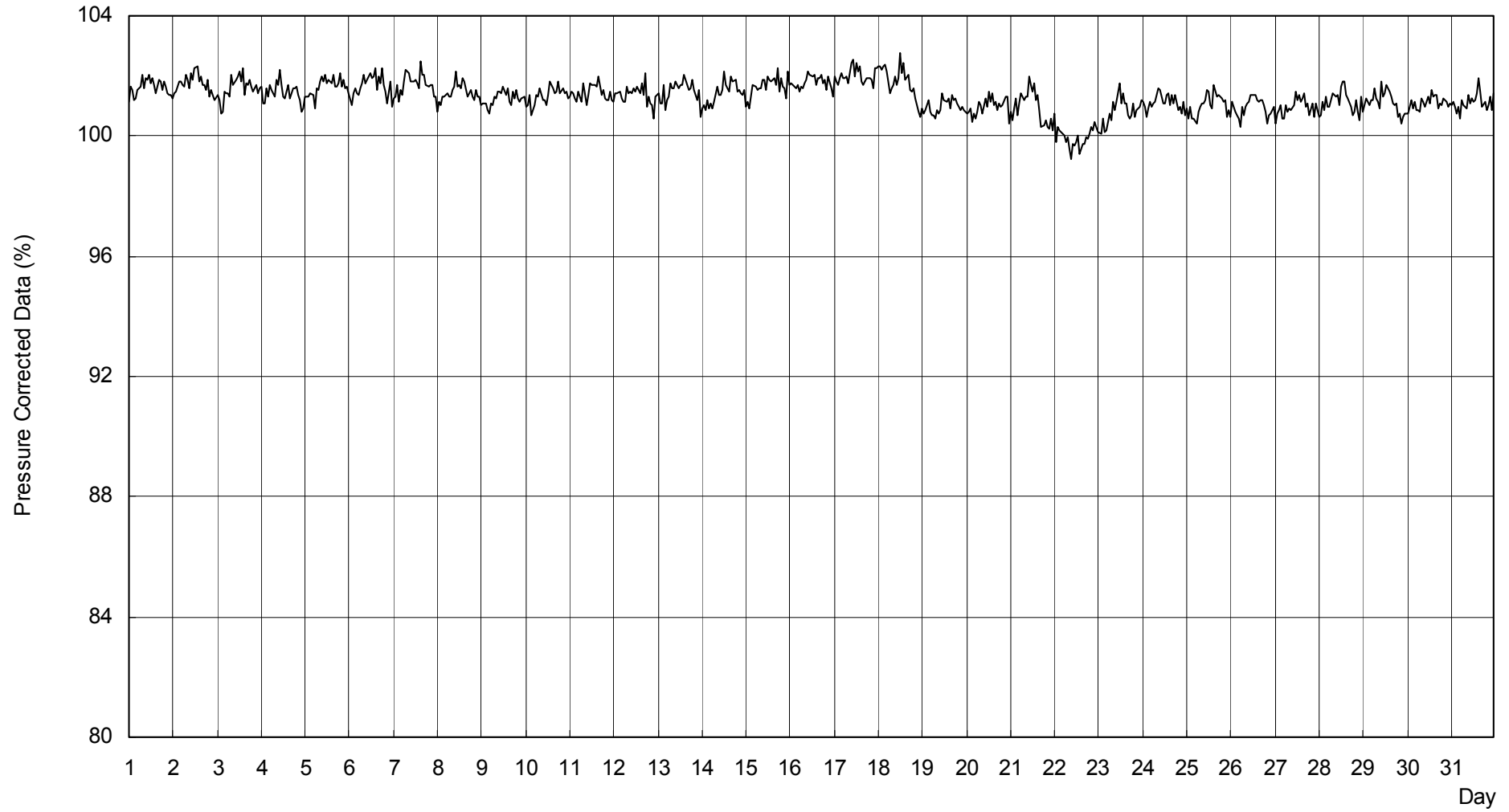
S.V.I.R.CO. Observatory - Pressure Corrected Data - March 2007



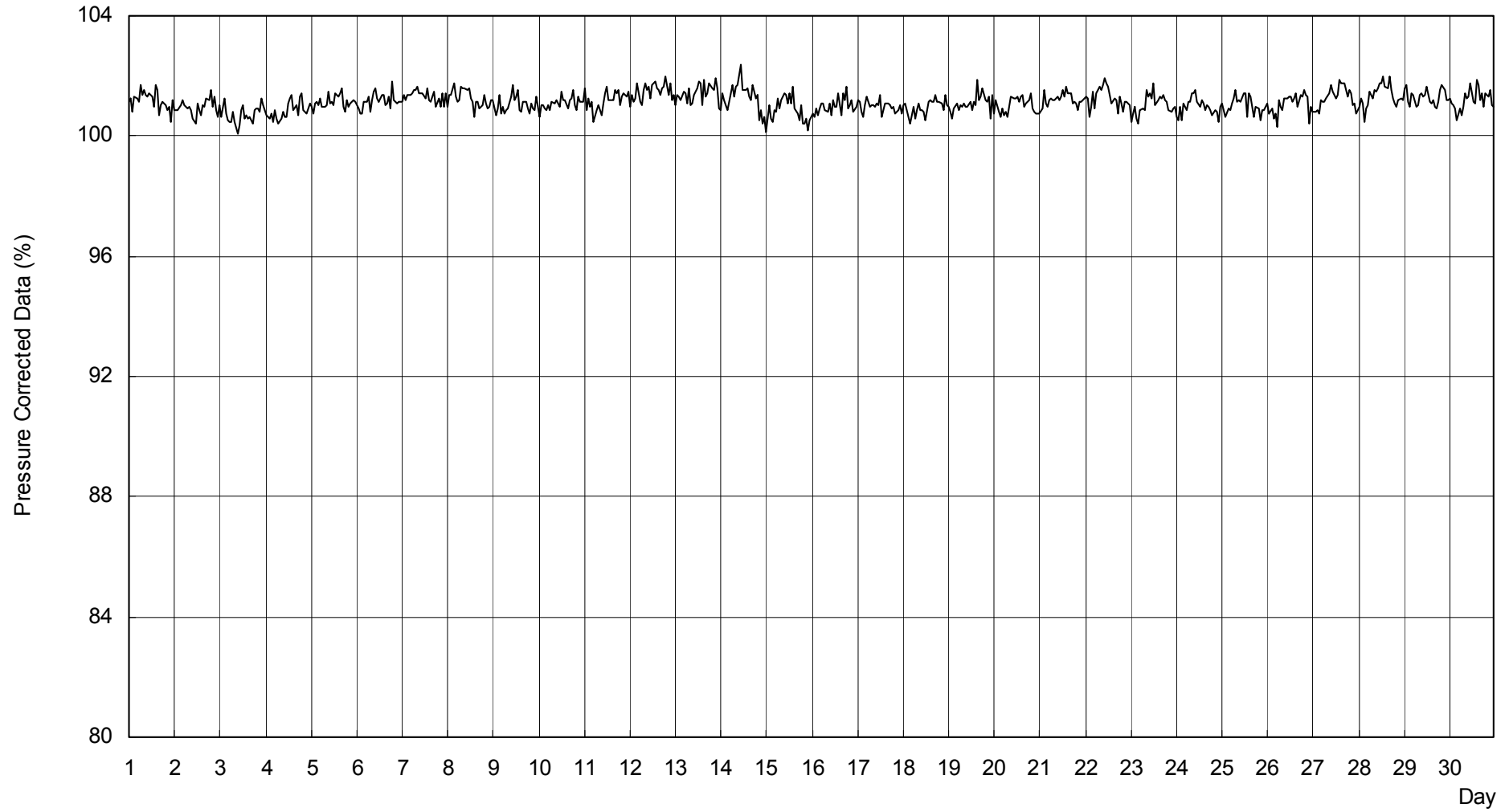
S.V.I.R.CO. Observatory - Pressure Corrected Data - April 2007



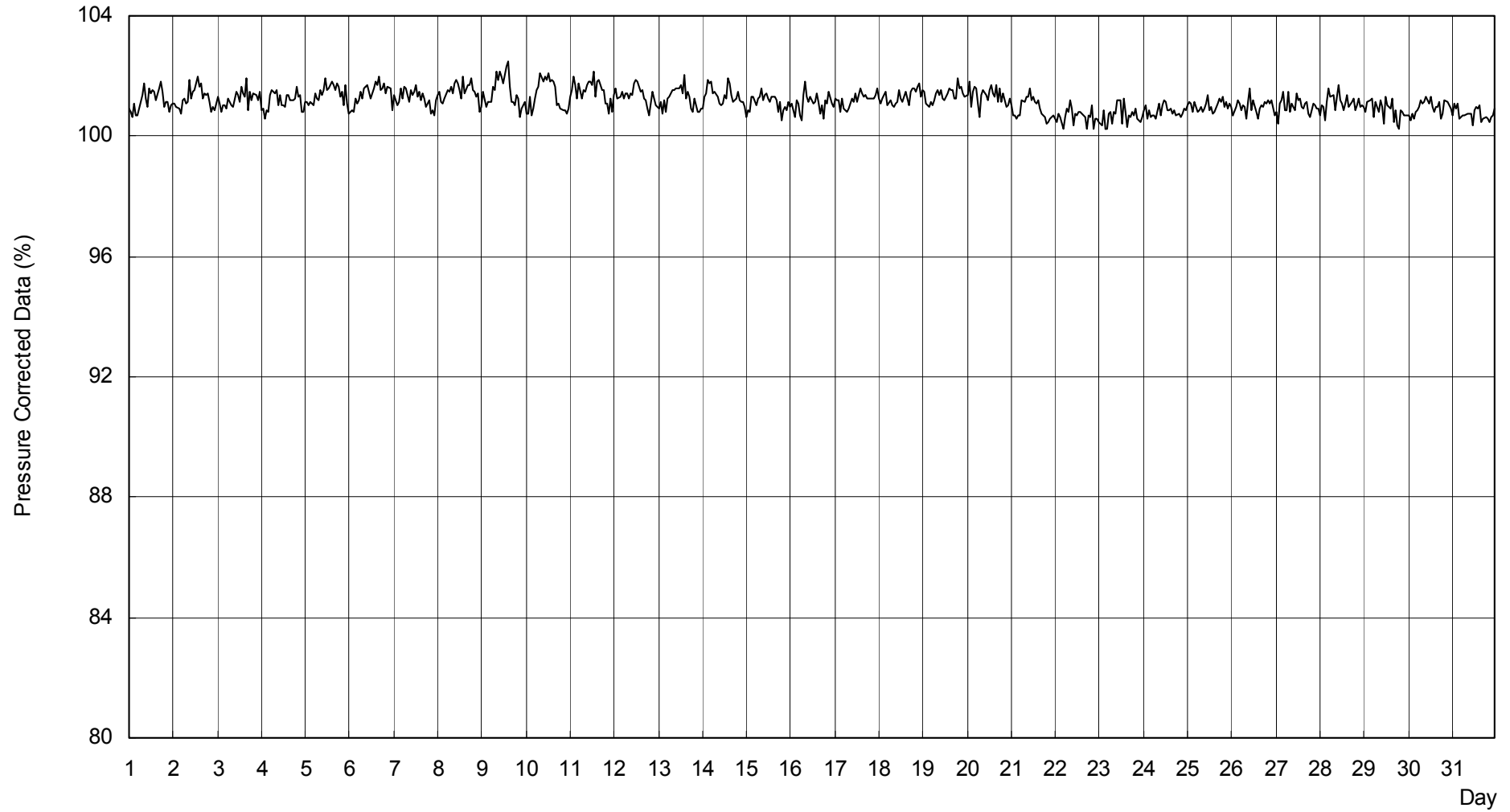
S.V.I.R.CO. Observatory - Pressure Corrected Data - May 2007



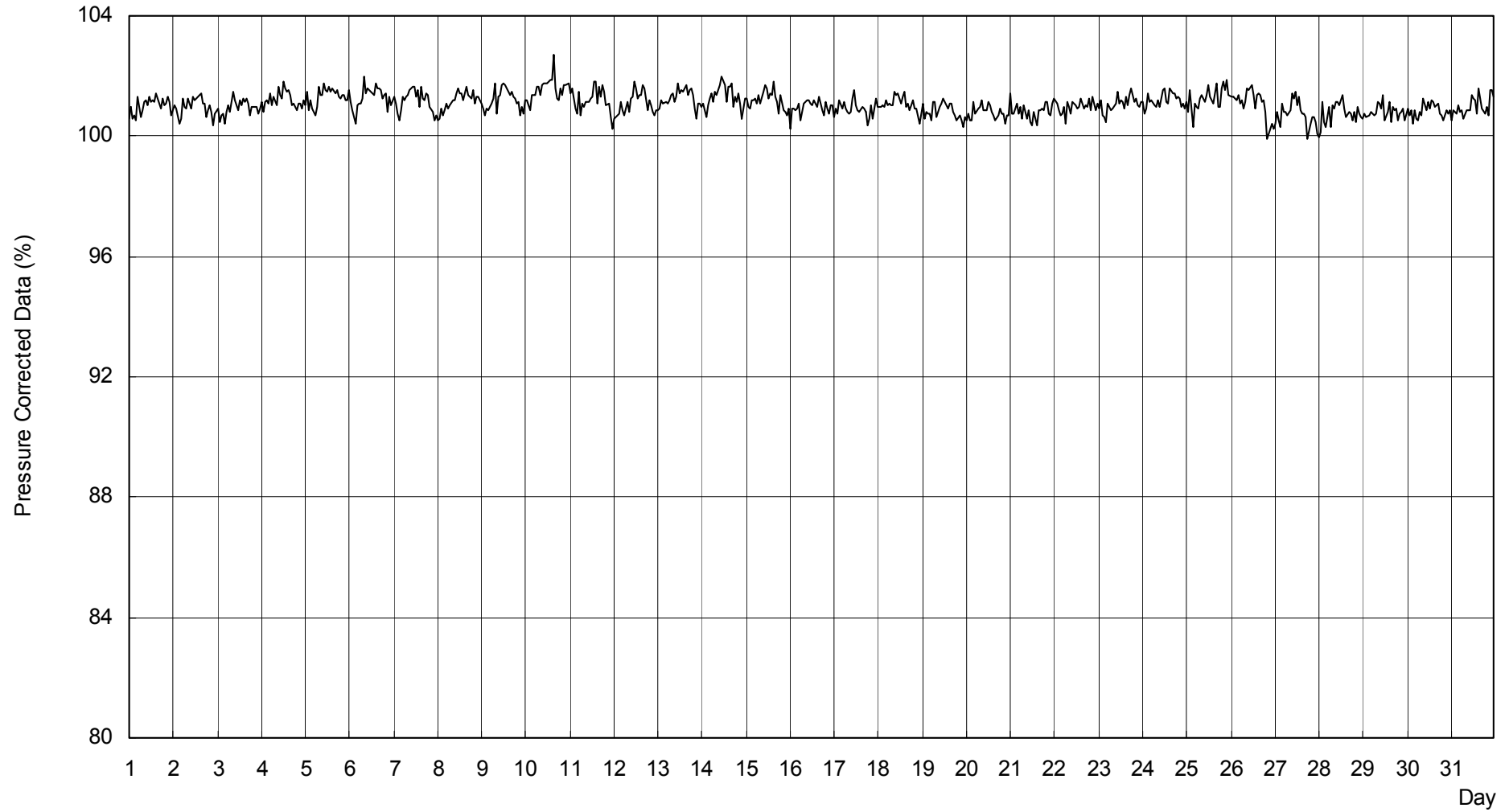
S.V.I.R.CO. Observatory - Pressure Corrected Data - June 2007



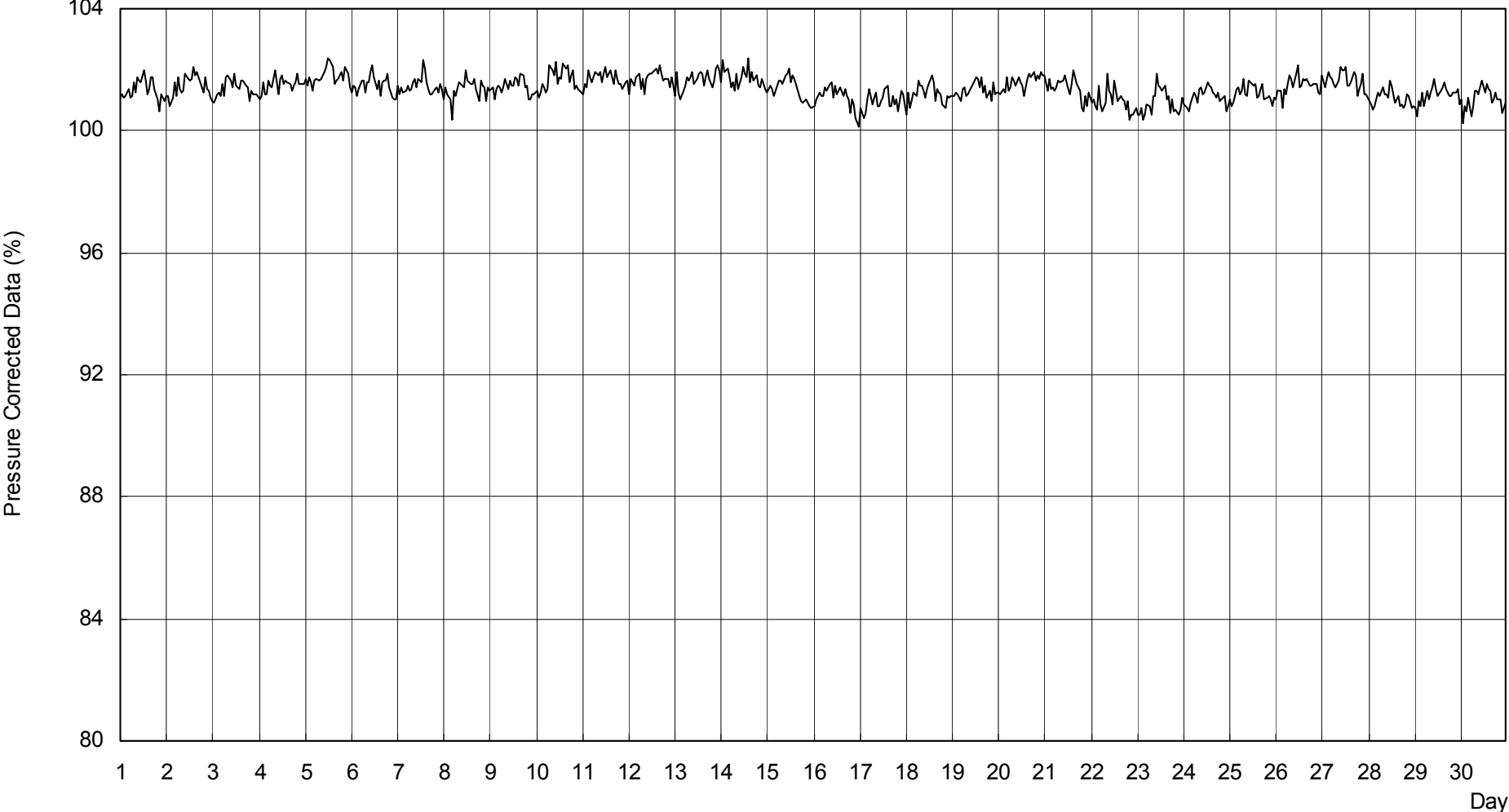
S.V.I.R.CO. Observatory - Pressure Corrected Data - July 2007



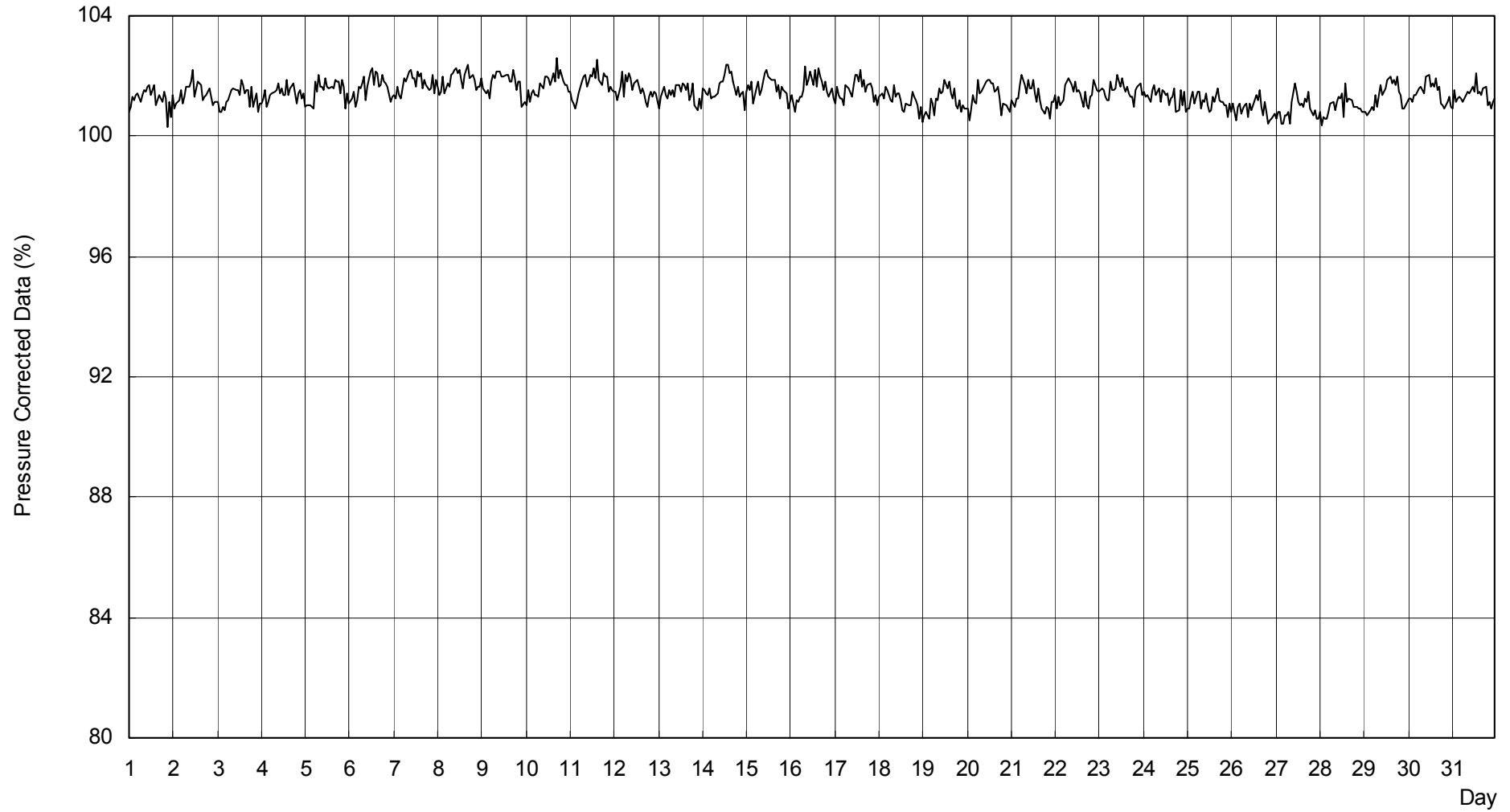
S.V.I.R.CO. Observatory - Pressure Corrected Data - August 2007



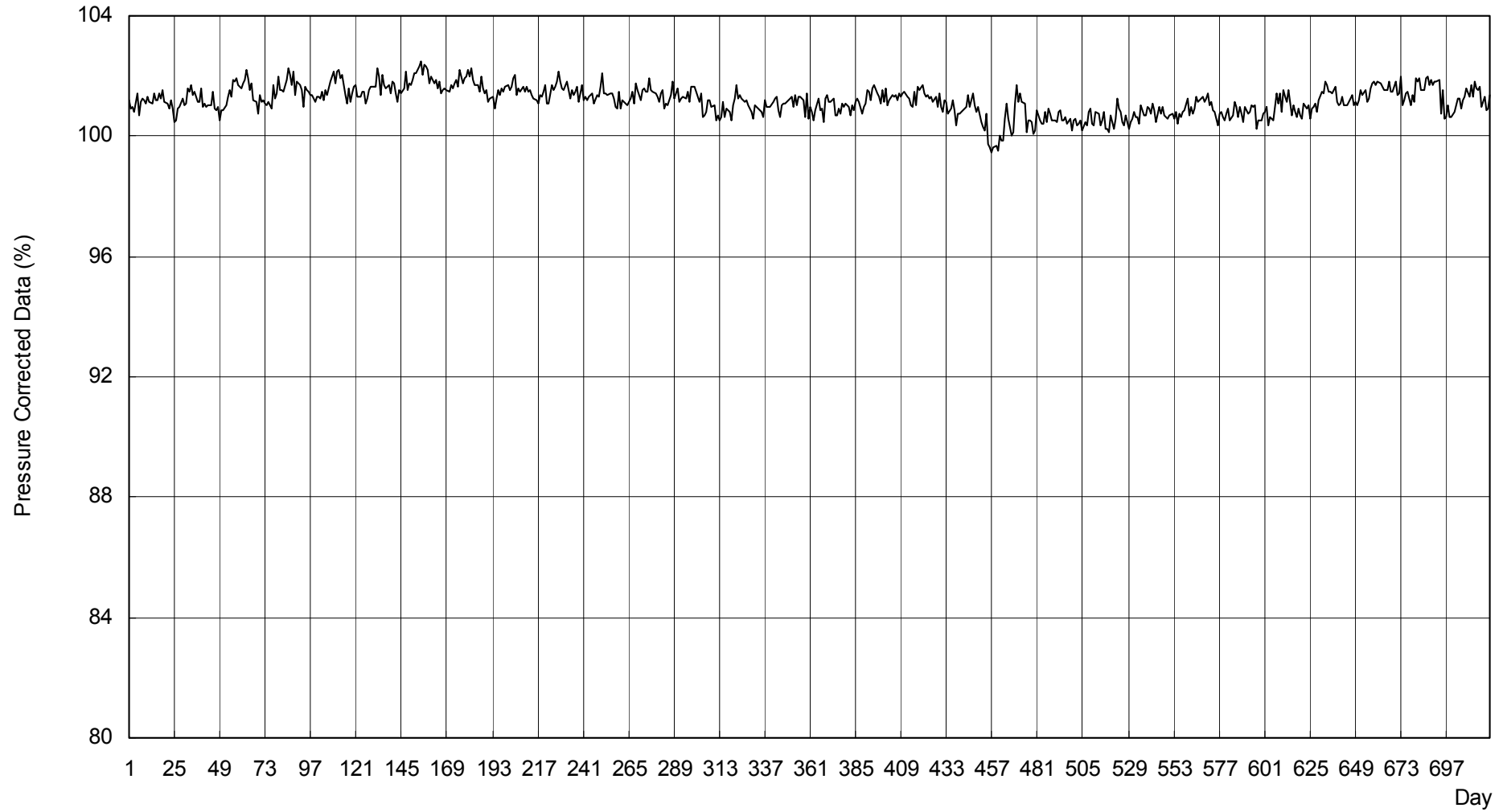
S.V.I.R.CO. Observatory - Pressure Corrected Data - September 2007



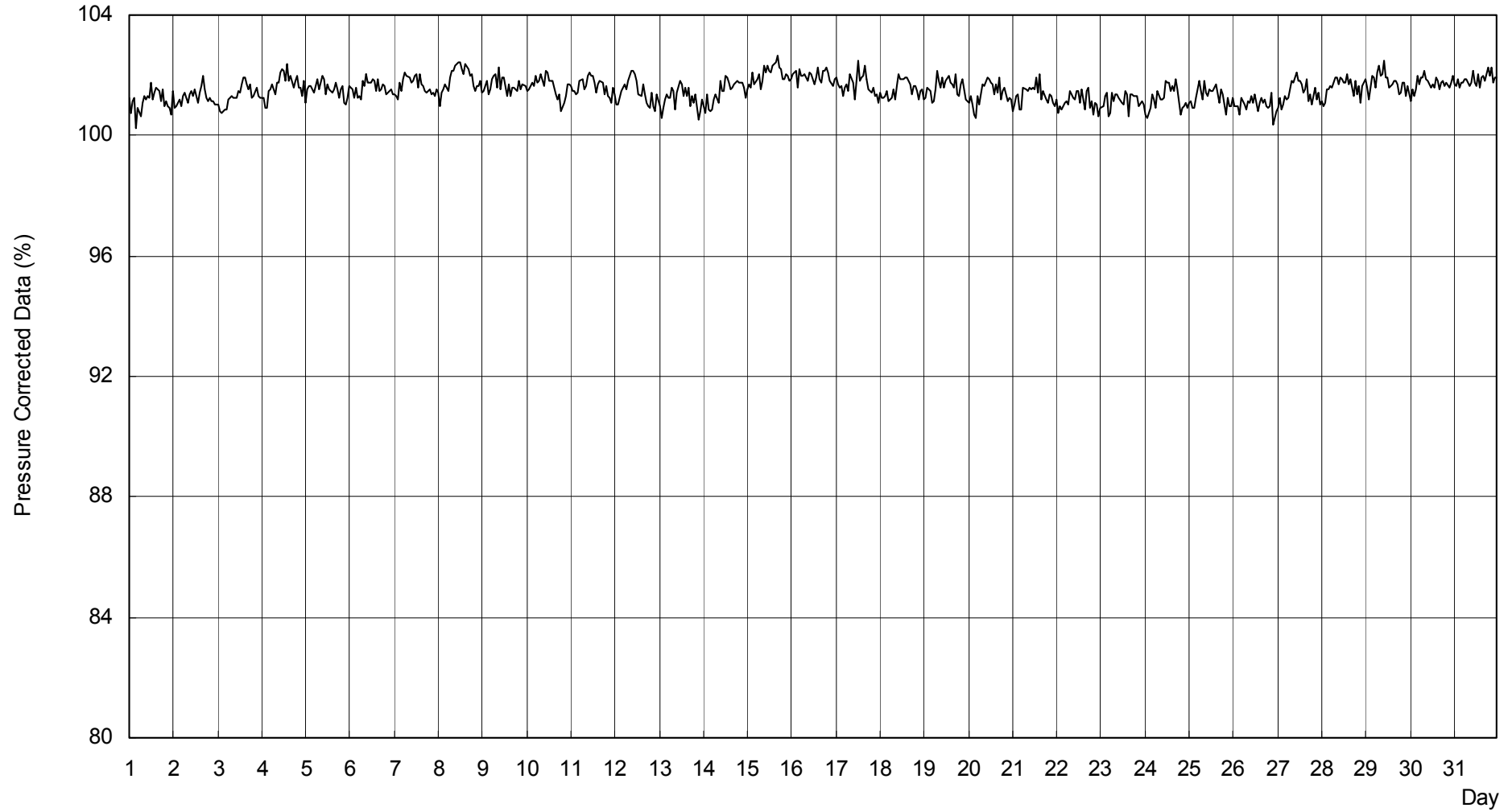
S.V.I.R.CO. Observatory - Pressure Corrected Data - October 2007



S.V.I.R.CO. Observatory - Pressure Corrected Data - November 2007



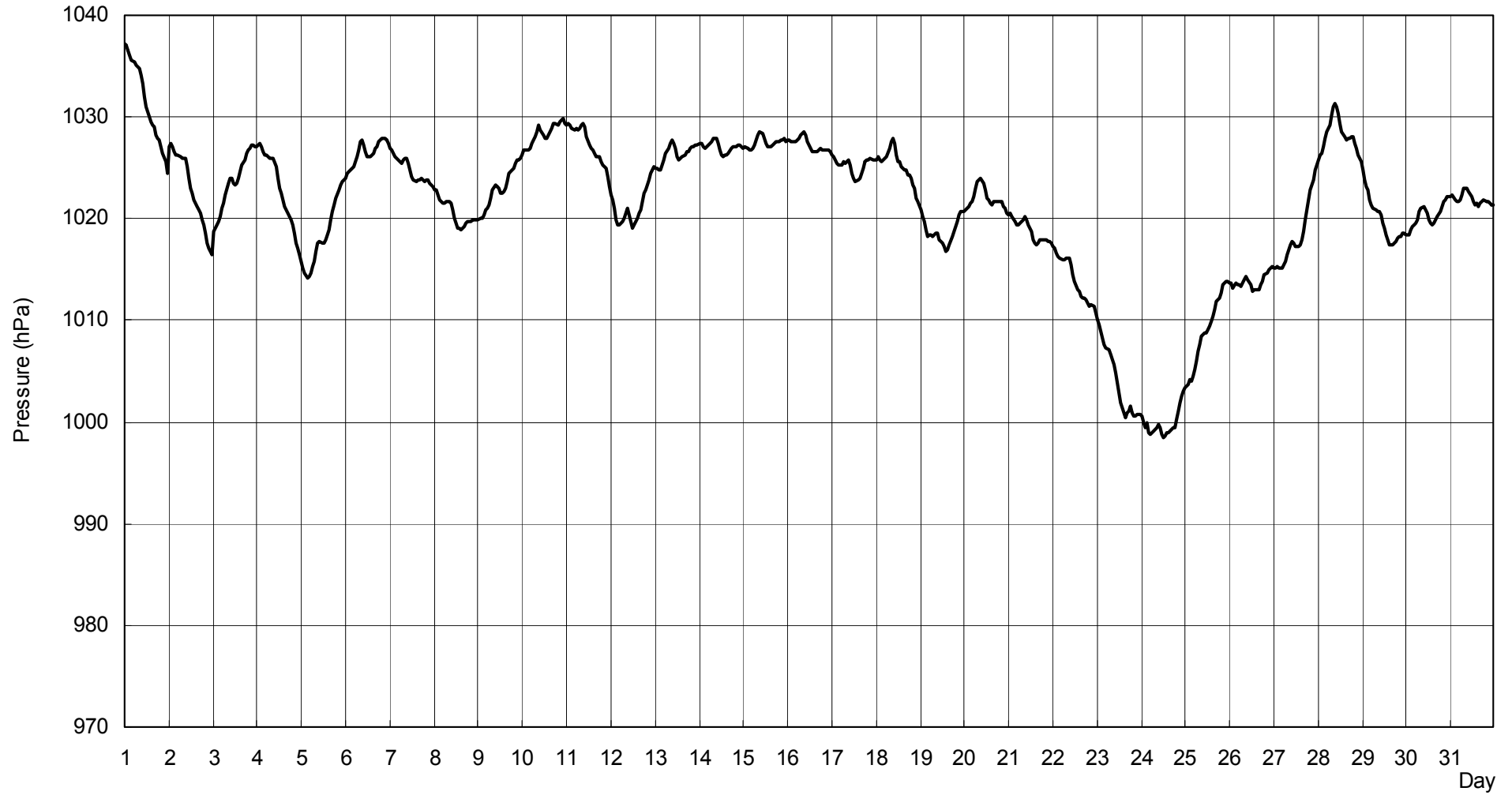
S.V.I.R.CO. Observatory - Pressure Corrected Data - December 2007



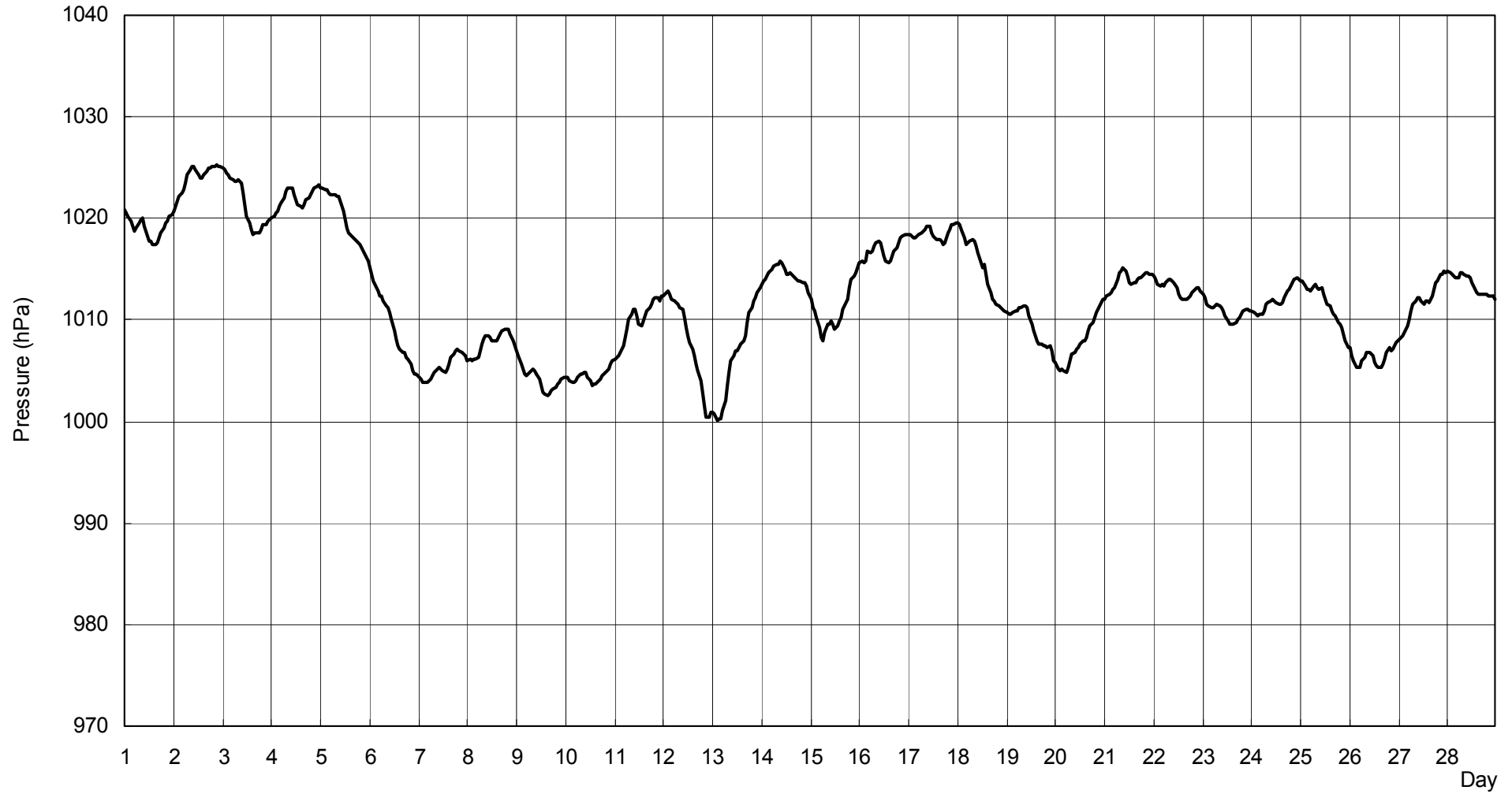
S.V.I.R.CO. Observatory - Rome (41.86° N - 12.47° E, s.l.)
 Pressure in hectoPascal - February 2007

UT DAY	1	2	3	4	5	6	7	8	9	10	11	12	DAILY AVG
	13	14	15	16	17	18	19	20	21	22	23	24	
1	1020.95	1020.63	1020.21	1019.70	1019.26	1018.75	1019.10	1019.53	1019.82	1020.03	1019.39	1018.33	
	1017.84	1017.69	1017.54	1017.42	1017.53	1017.92	1018.59	1019.03	1019.46	1019.62	1020.14	1020.35	1019.12
2	1020.76	1021.24	1021.68	1022.12	1022.45	1022.85	1023.52	1024.20	1024.70	1025.05	1025.14	1024.86	
	1024.35	1024.00	1024.04	1024.25	1024.57	1024.88	1025.00	1025.11	1025.16	1025.22	1025.17	1025.16	1023.98
3	1024.93	1024.81	1024.50	1024.30	1023.91	1023.82	1023.63	1023.68	1023.71	1023.51	1022.67	1021.48	
	1020.36	1019.60	1018.96	1018.47	1018.57	1018.53	1018.65	1018.80	1019.28	1019.44	1019.62	1019.81	1021.46
4	1019.96	1020.24	1020.60	1020.77	1021.10	1021.56	1021.99	1022.64	1022.96	1023.02	1023.09	1022.48	
	1021.82	1021.35	1021.10	1021.04	1021.23	1021.76	1022.02	1022.35	1022.54	1022.97	1023.19	1023.27	1021.88
5	1023.06	1022.92	1022.83	1022.75	1022.49	1022.35	1022.40	1022.36	1022.19	1022.13	1021.74	1020.88	
	1019.94	1019.11	1018.62	1018.28	1018.06	1017.88	1017.79	1017.51	1017.18	1016.79	1016.48	1015.85	1020.07
6	1015.15	1014.58	1013.80	1013.25	1012.90	1012.43	1012.31	1011.98	1011.44	1011.15	1010.82	1010.08	
	1009.12	1008.22	1007.52	1007.16	1006.83	1006.84	1006.34	1006.20	1005.77	1005.11	1004.74	1004.61	1009.51
7	1004.40	1004.13	1003.85	1003.86	1003.88	1004.02	1004.19	1004.56	1004.86	1005.20	1005.40	1005.15	
	1005.00	1004.83	1005.09	1005.61	1006.16	1006.58	1006.93	1007.08	1007.00	1006.77	1006.67	1006.42	1005.32
8	1006.04	1006.10	1006.07	1006.08	1006.15	1006.21	1006.94	1007.65	1008.07	1008.40	1008.51	1008.37	
	1008.05	1008.00	1007.88	1008.20	1008.50	1008.95	1009.05	1009.11	1009.08	1008.70	1008.02	1007.49	1007.73
9	1006.93	1006.52	1005.62	1005.13	1004.69	1004.48	1004.75	1005.05	1005.17	1005.07	1004.78	1004.20	
	1003.61	1002.87	1002.74	1002.53	1002.68	1003.01	1003.11	1003.37	1003.74	1003.91	1004.07	1004.28	1004.26
10	1004.37	1004.30	1004.04	1003.87	1003.87	1003.93	1004.35	1004.65	1004.72	1004.87	1004.82	1004.36	
	1003.99	1003.61	1003.62	1003.68	1004.04	1004.21	1004.42	1004.72	1004.99	1005.19	1005.64	1005.91	1004.42
11	1006.06	1006.28	1006.44	1006.78	1007.44	1008.23	1009.12	1009.98	1010.48	1010.93	1011.18	1010.44	
	1009.65	1009.33	1009.85	1010.27	1010.85	1011.14	1011.46	1012.03	1012.17	1012.14	1011.93	1012.28	1009.85
12	1012.42	1012.61	1012.79	1012.56	1012.09	1011.93	1011.74	1011.62	1011.29	1011.07	1010.30	1009.40	
	1008.60	1007.80	1007.14	1006.63	1005.76	1005.10	1004.17	1003.00	1001.80	1000.45	1000.44	1000.83	1007.98
13	1000.98	1000.71	1000.18	1000.19	1000.25	1000.93	1002.08	1003.47	1004.65	1005.85	1006.40	1006.85	
	1006.99	1007.19	1007.63	1007.89	1008.34	1009.47	1010.58	1011.17	1011.89	1012.15	1012.66	1013.22	1006.32
14	1013.54	1013.76	1014.00	1014.57	1014.83	1014.99	1015.22	1015.47	1015.54	1015.77	1015.69	1015.03	
	1014.57	1014.47	1014.70	1014.52	1014.21	1013.99	1013.74	1013.79	1013.58	1013.68	1013.35	1012.84	1014.41
15	1012.10	1011.19	1010.88	1010.30	1009.24	1008.25	1007.97	1008.61	1009.51	1009.53	1009.80	1009.70	
	1009.21	1009.26	1009.81	1010.23	1011.02	1011.62	1011.97	1013.00	1013.96	1014.28	1014.57	1015.10	1010.88
16	1015.70	1015.82	1015.62	1015.79	1016.70	1016.57	1016.74	1017.16	1017.57	1017.70	1017.71	1017.06	
	1016.29	1015.86	1015.66	1015.69	1016.18	1016.71	1017.12	1017.53	1018.09	1018.18	1018.35	1018.35	1016.84
17	1018.42	1018.36	1018.11	1018.09	1018.28	1018.38	1018.56	1018.68	1018.93	1019.16	1019.22	1018.69	
	1018.23	1018.02	1017.87	1017.84	1017.81	1017.45	1017.52	1018.42	1018.93	1019.32	1019.45	1019.49	1018.47
18	1019.54	1019.45	1018.95	1018.10	1017.47	1017.64	1017.77	1017.97	1017.78	1017.27	1016.68	1015.65	
	1015.09	1015.43	1014.62	1013.58	1012.80	1012.12	1011.83	1011.66	1011.39	1011.27	1011.07	1010.91	1015.25
19	1010.66	1010.51	1010.55	1010.75	1010.85	1010.86	1011.17	1011.28	1011.38	1011.32	1011.22	1010.47	
	1009.71	1009.02	1008.53	1007.95	1007.60	1007.66	1007.43	1007.46	1007.34	1007.42	1007.09	1006.00	1009.34
20	1005.77	1005.26	1004.92	1005.15	1005.05	1004.78	1005.35	1005.96	1006.50	1006.77	1007.12	1007.33	
	1007.63	1007.92	1007.91	1008.23	1008.83	1009.35	1009.75	1010.19	1010.65	1010.98	1011.55	1012.07	1007.71
21	1012.03	1012.32	1012.43	1012.61	1012.94	1013.15	1013.90	1014.54	1014.87	1015.06	1014.90	1014.46	
	1013.77	1013.53	1013.70	1013.72	1013.89	1014.20	1014.16	1014.40	1014.64	1014.62	1014.56	1014.47	1013.87
22	1014.34	1013.95	1013.47	1013.38	1013.45	1013.41	1013.61	1013.99	1014.08	1013.87	1013.70	1013.18	
	1012.68	1012.23	1012.06	1011.96	1012.03	1012.20	1012.35	1012.58	1012.95	1013.24	1013.13	1012.91	1013.11
23	1012.56	1012.15	1011.52	1011.36	1011.27	1011.28	1011.29	1011.54	1011.37	1011.23	1010.99	1010.46	
	1009.96	1009.57	1009.55	1009.54	1009.70	1010.08	1010.19	1010.47	1010.81	1011.04	1011.06	1010.89	1010.83
24	1010.82	1010.74	1010.49	1010.36	1010.47	1010.57	1010.85	1011.45	1011.67	1011.81	1012.07	1011.96	
	1011.66	1011.50	1011.57	1011.69	1012.12	1012.73	1013.05	1013.34	1013.67	1014.01	1014.12	1014.04	1011.95
25	1013.90	1013.84	1013.30	1013.02	1013.08	1012.93	1013.34	1013.46	1013.22	1013.10	1013.13	1012.70	
	1012.08	1011.66	1011.37	1010.90	1010.60	1010.52	1009.89	1009.55	1009.29	1008.72	1008.03	1007.24	1011.62
26	1007.26	1006.45	1005.96	1005.39	1005.36	1005.38	1005.89	1006.36	1006.68	1006.84	1006.77	1006.52	
	1005.93	1005.54	1005.39	1005.29	1005.59	1006.08	1006.72	1007.24	1007.09	1007.02	1007.43	1007.81	1006.33
27	1008.11	1008.32	1008.43	1008.81	1009.37	1009.99	1010.83	1011.53	1011.87	1012.21	1012.29	1011.98	
	1011.62	1011.83	1011.86	1011.67	1012.22	1012.99	1013.55	1013.85	1014.48	1014.51	1014.71	1014.70	1011.74
28	1014.83	1014.68	1014.46	1014.39	1014.22	1014.07	1014.63	1014.61	1014.50	1014.26	1014.27	1014.22	
	1013.75	1013.15	1012.74	1012.45	1012.55	1012.55	1012.57	1012.53	1012.39	1012.41	1012.31	1012.04	1013.52
MONTHLY AVG	1012.70	1012.57	1012.35	1012.27	1012.25	1012.28	1012.62	1013.00	1013.20	1013.29	1013.21	1012.72	
	1012.20	1011.88	1011.75	1011.67	1011.80	1012.02	1012.14	1012.34	1012.48	1012.47	1012.48	1012.44	1012.42

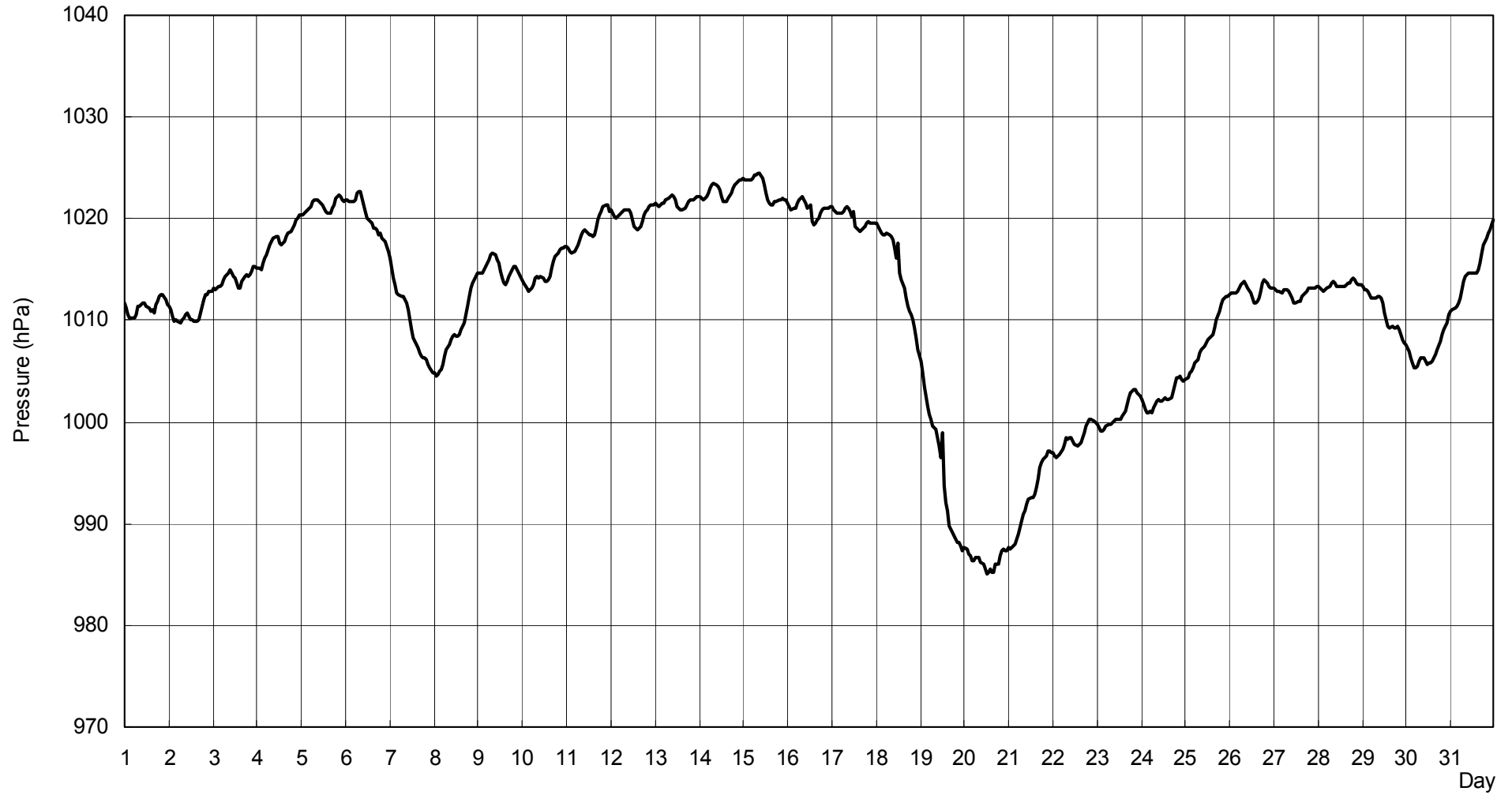
S.V.I.R.CO. Observatory - Pressure in hectoPascal - January 2007



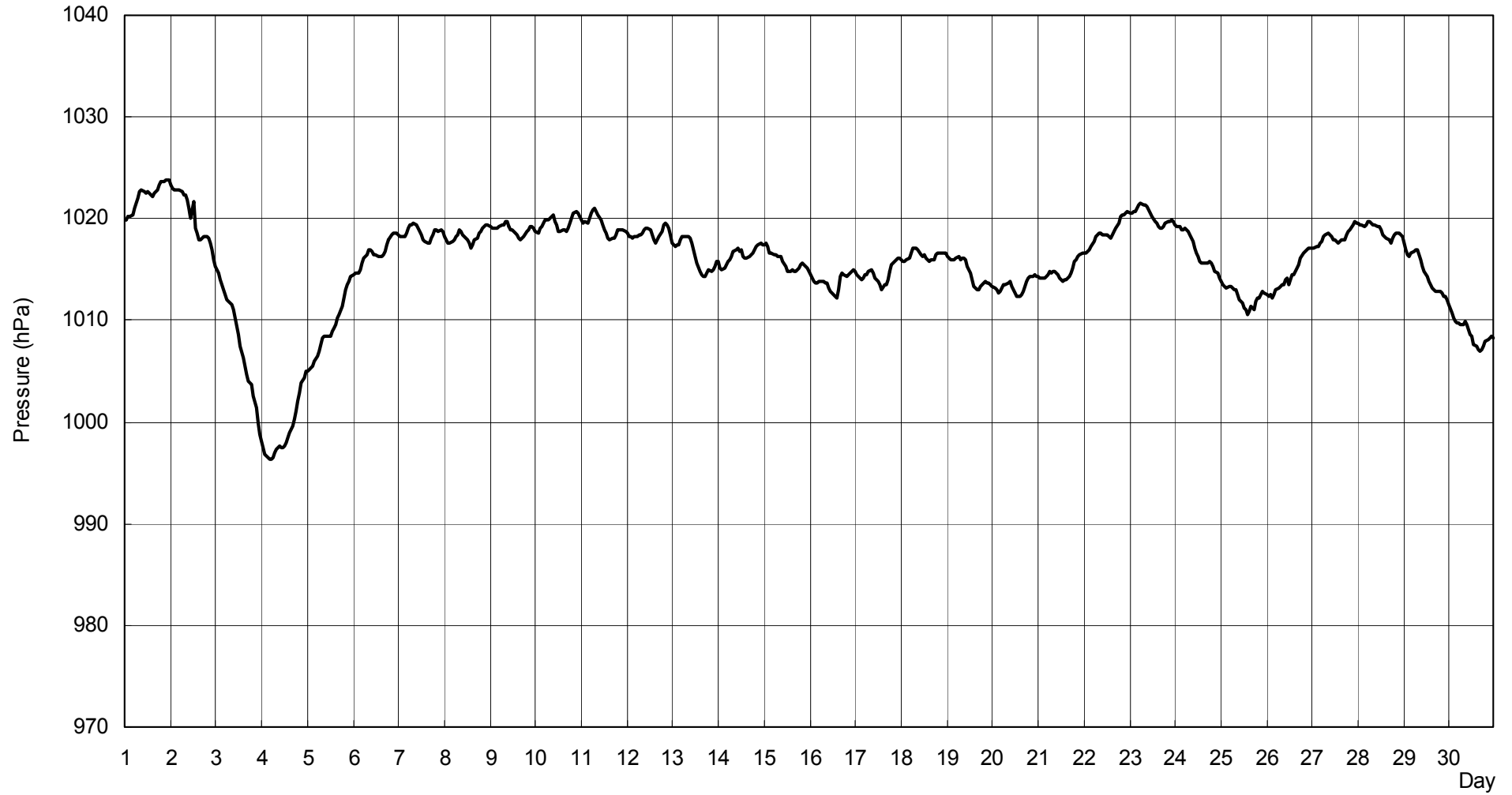
S.V.I.R.CO. Observatory - Pressure in hectoPascal - February 2007



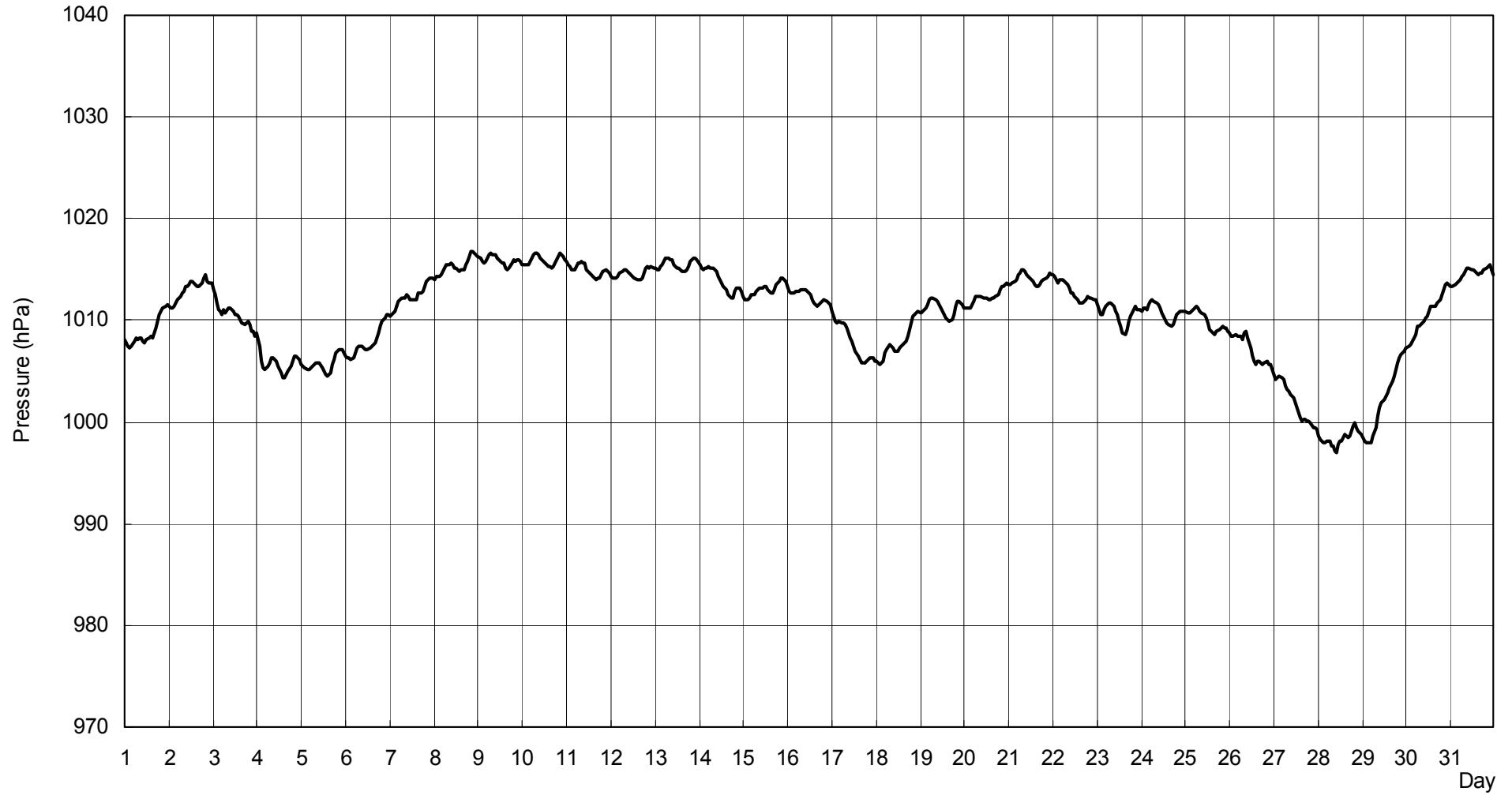
S.V.I.R.CO. Observatory - Pressure in hectoPascal - March 2007



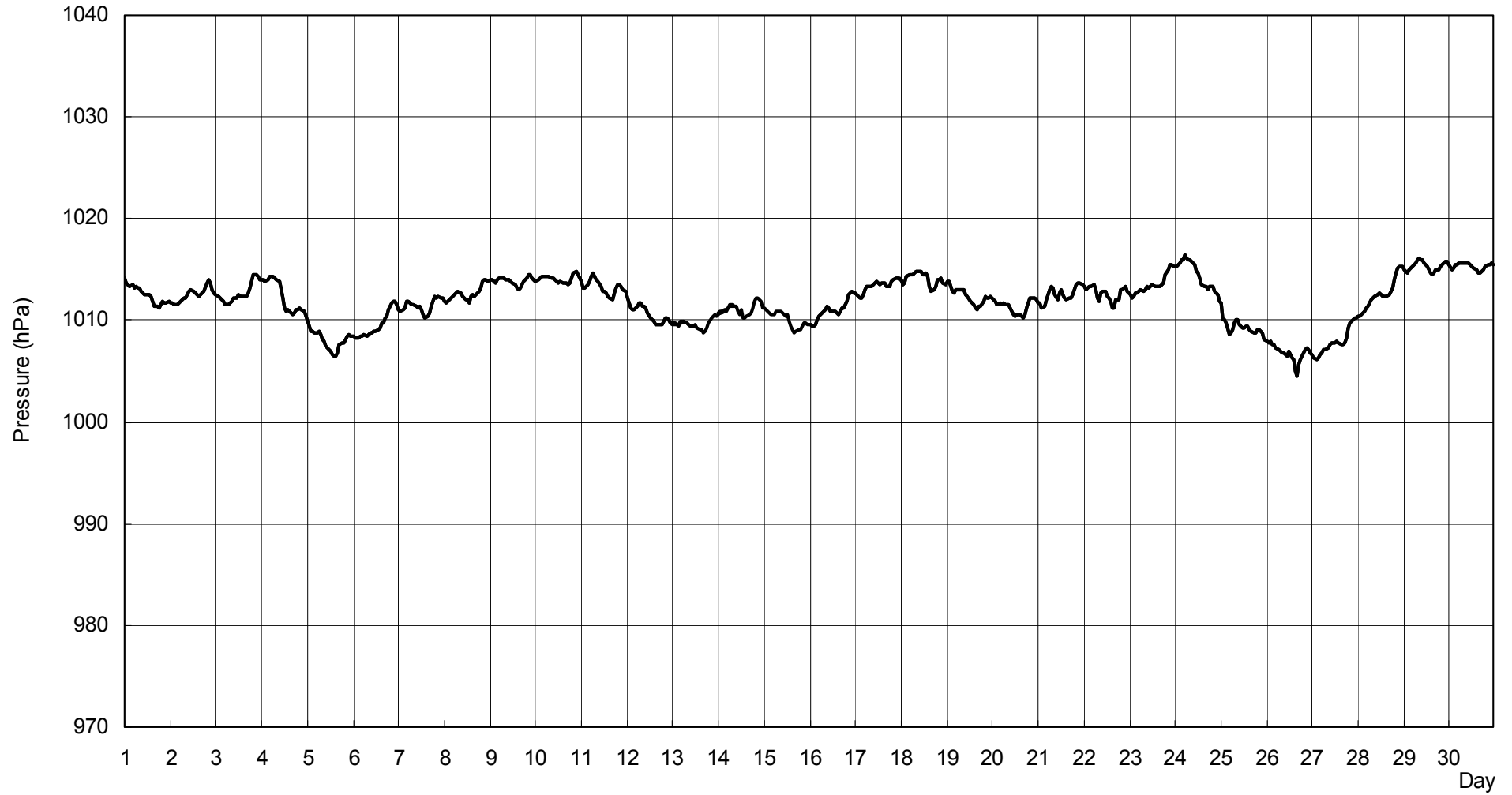
S.V.I.R.CO. Observatory - Pressure in hectoPascal - April 2007



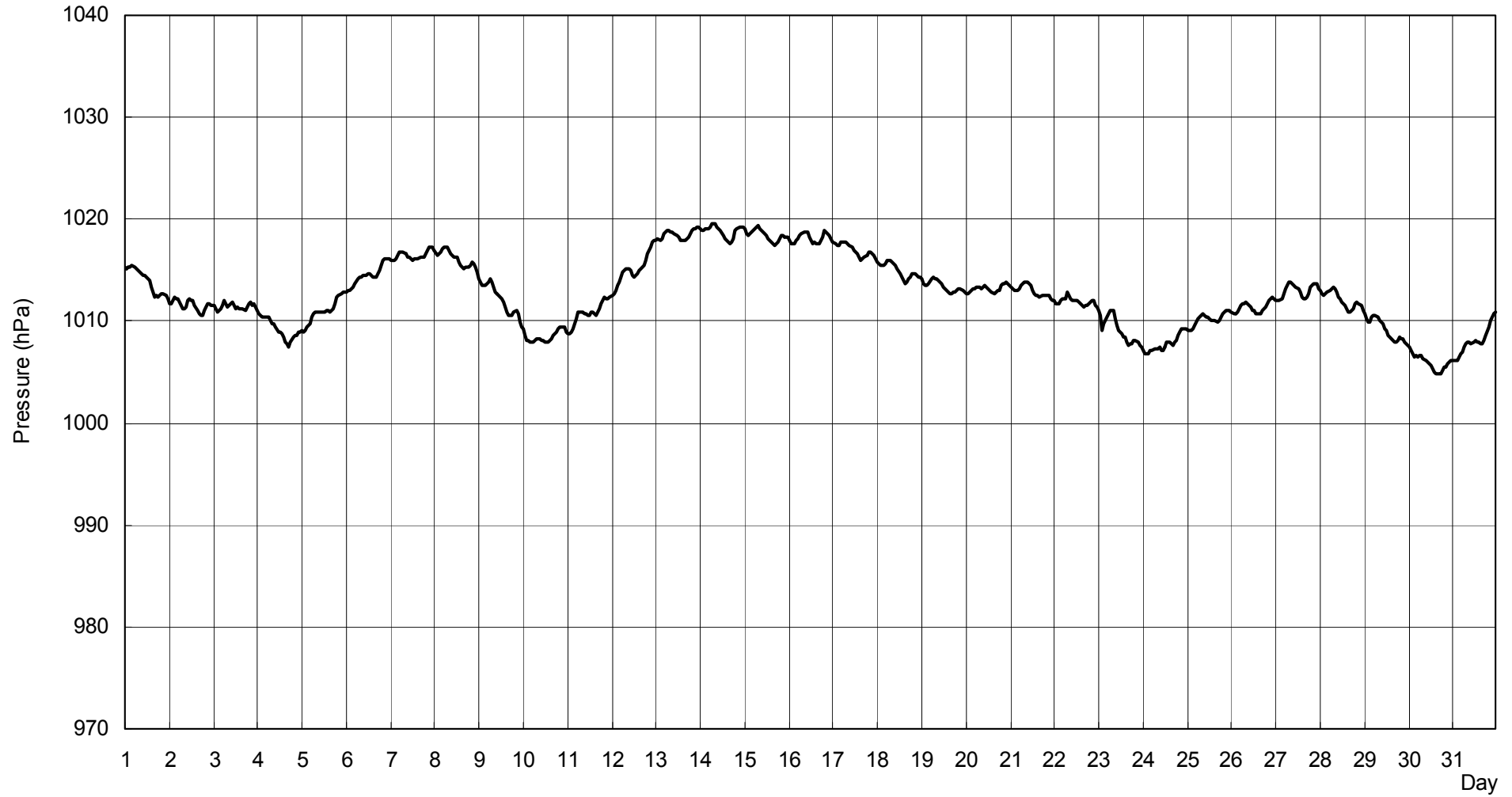
S.V.I.R.CO. Observatory - Pressure in hectoPascal - May 2007



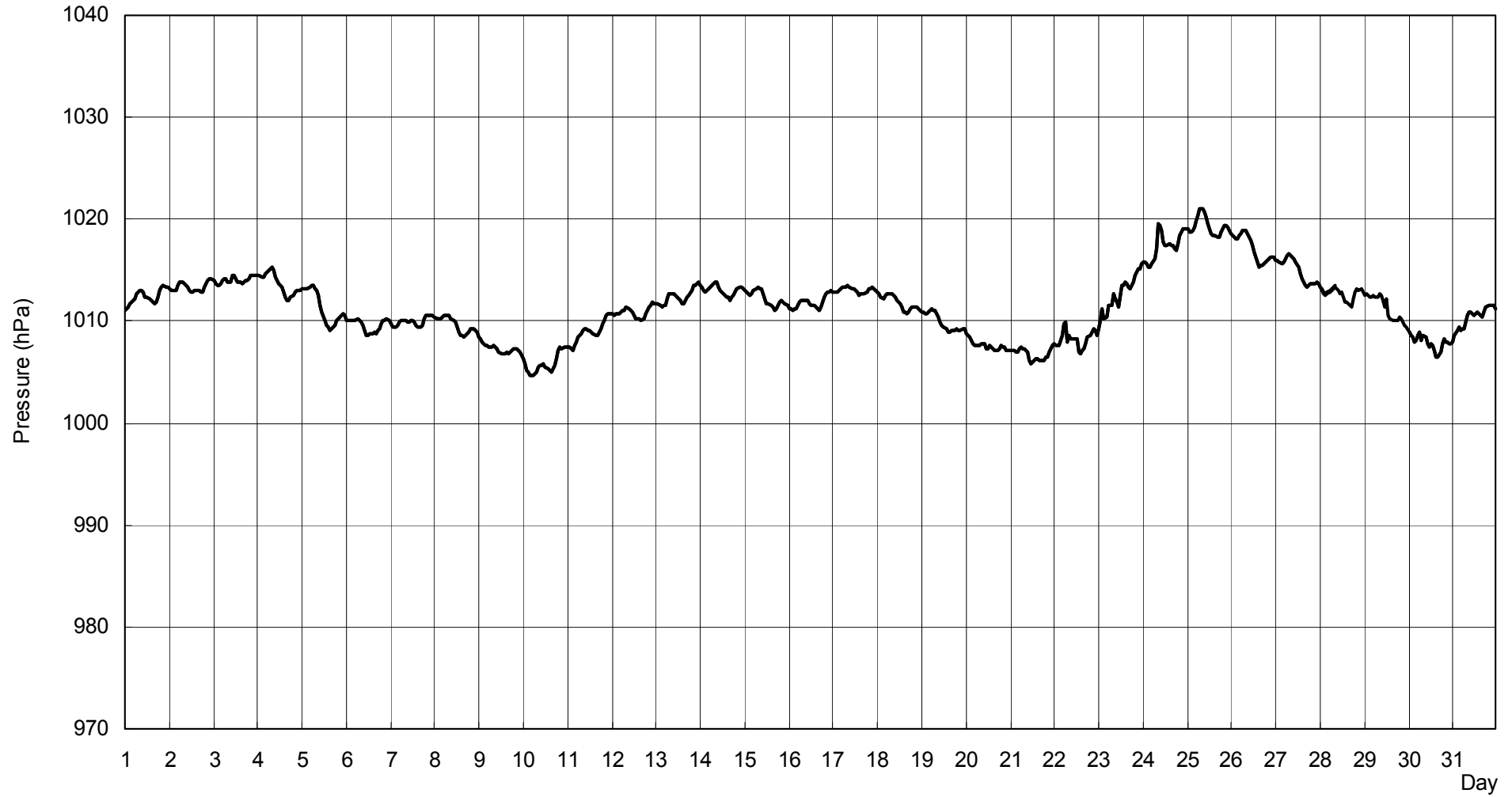
S.V.I.R.CO. Observatory - Pressure in hectoPascal - June 2007



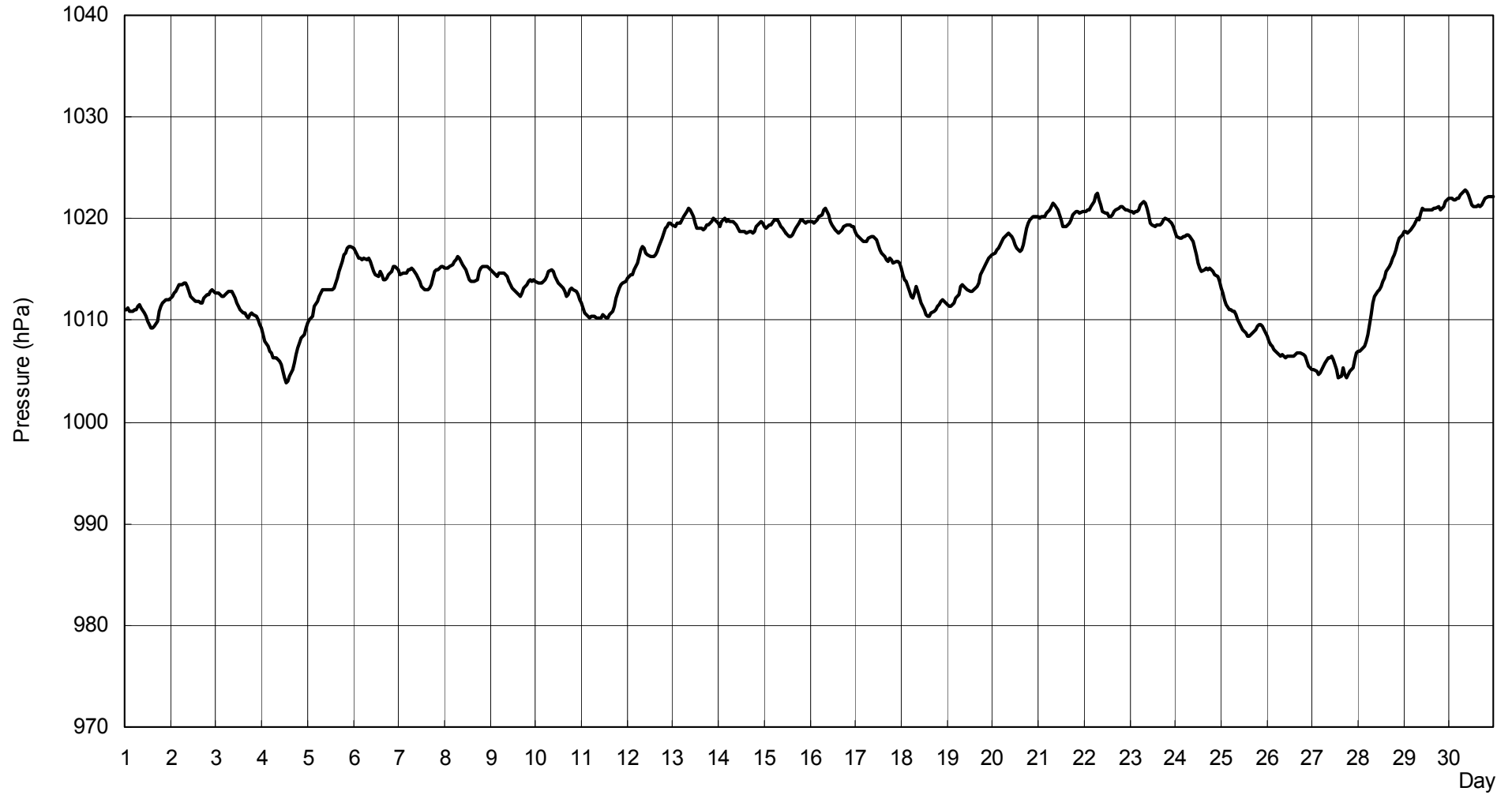
S.V.I.R.CO. Observatory - Pressure in hectoPascal - July 2007



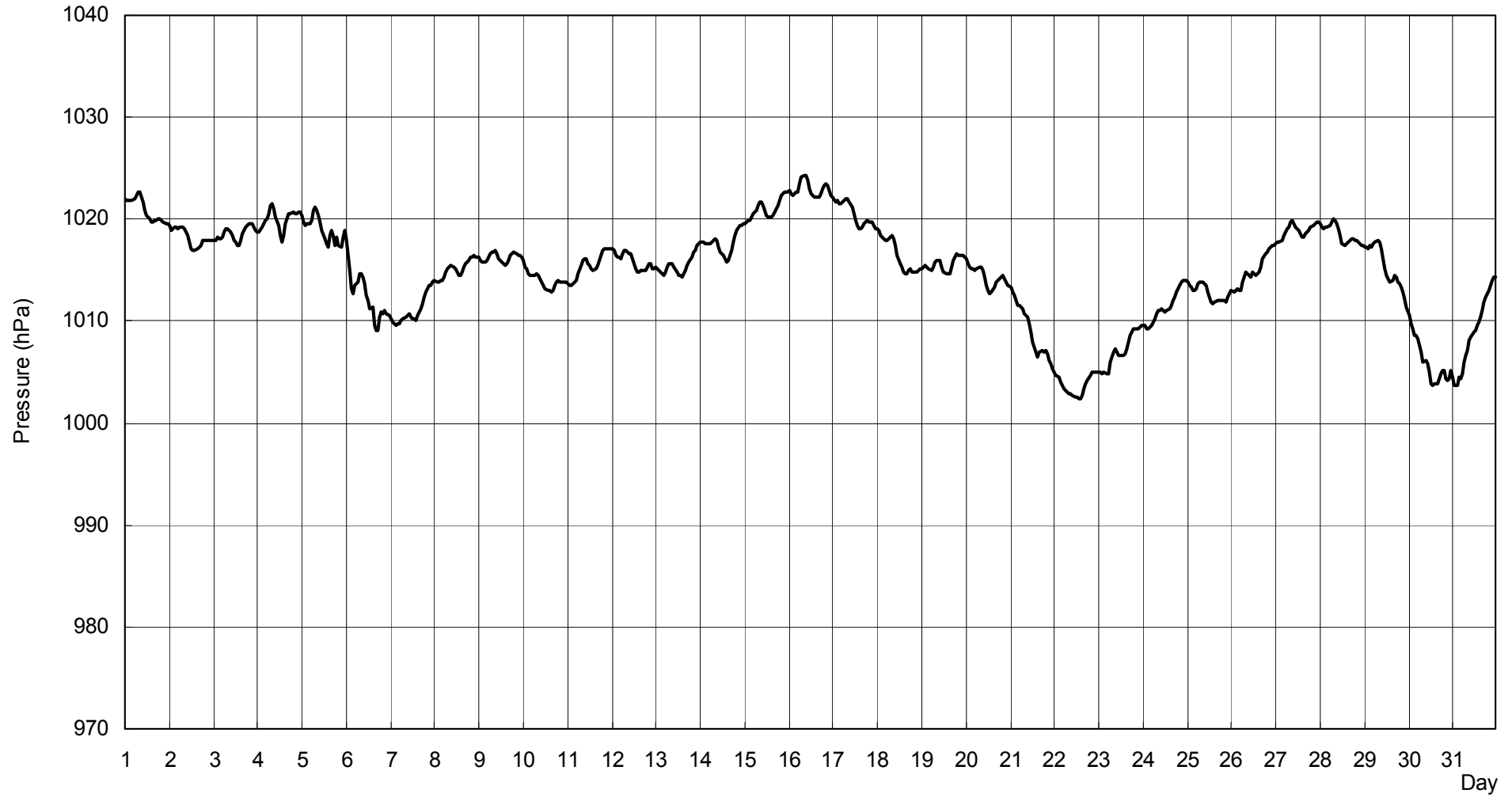
S.V.I.R.CO. Observatory - Pressure in hectoPascal - August 2007



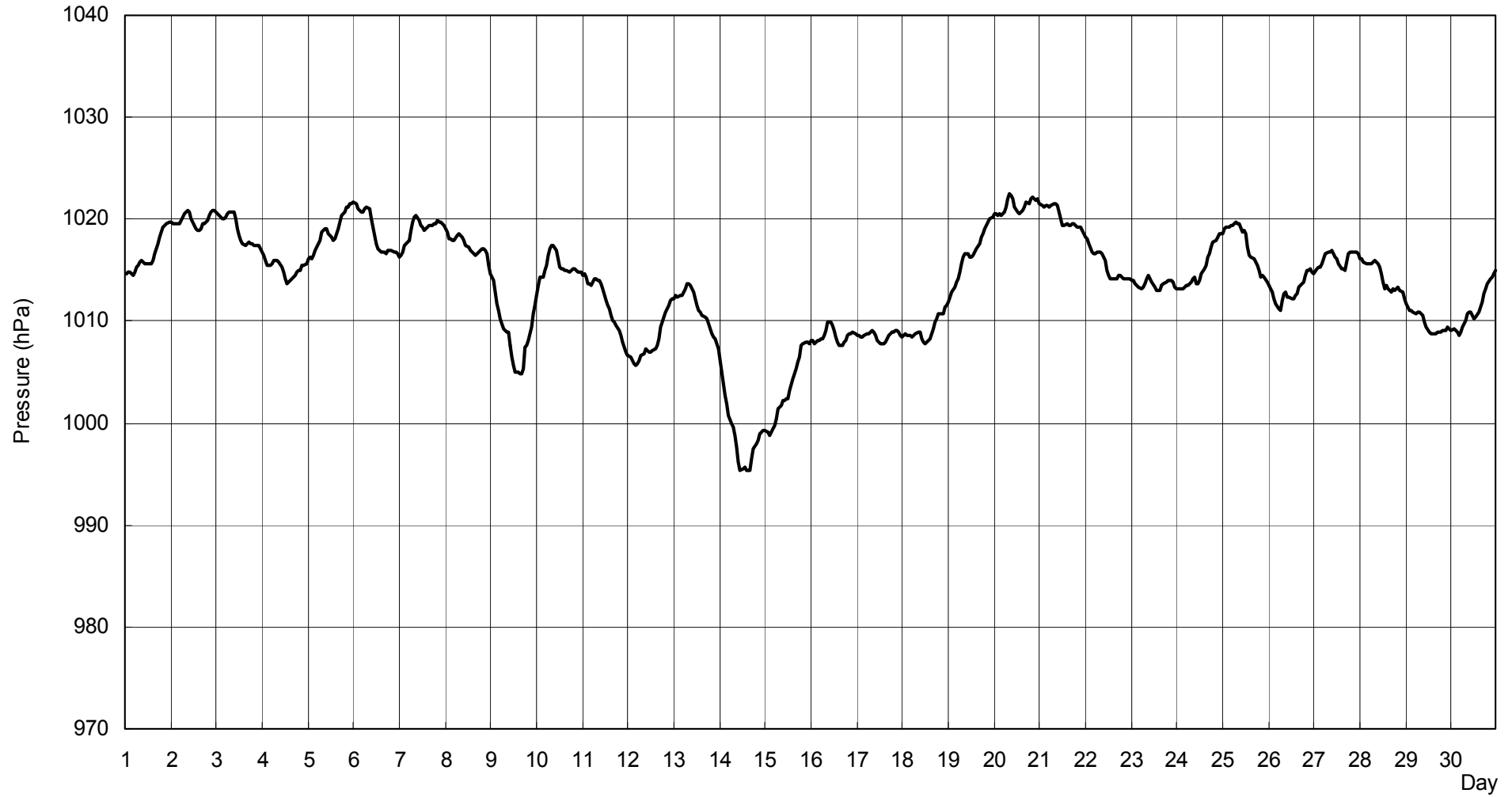
S.V.I.R.CO. Observatory - Pressure in hectoPascal - September 2007



S.V.I.R.CO. Observatory - Pressure in hectoPascal - October 2007



S.V.I.R.CO. Observatory - Pressure in hectoPascal - November 2007



S.V.I.R.CO. Observatory - Pressure in hectoPascal - December 2007

