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Load Data

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ADAPTIVE SHORT-TERM PREDICTION OF POWER LOAD
LOAD DATA

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August 1978

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LOAD DATA

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 In this report authentic hourly power load data from 1973 are presented. The measurements are taken on the power network of the Swedish State Power Board. Different subsets of those data have been used for experiments with the adaptive prediction algorithms.

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Adaptive Prediction of Power Load. Load Data

In the thesis Holst (1977) adaptive prediction algorithms were applied for prediction of the hourly power load. The data used in these experiments are given in this report. They are authentic load data from the Swedish State Power Board and they are labelled "The Compensated Internal Consumption on the the Swedish State Power Board Network" ("Statens Vattenfallsverks Korrigerade Egenförbrukning"). The dataset is also used in other prediction experiments, cf. Tyrén (1974).

In the prediction experiments the power load from 1973 was predicted. The hourly load data are given in Table 1. In this table the first column is a five digit number 3xyz and the remaining 12 columns are four digit hourly load readings in MW. The five digit number is to be understood as

3 - 1973
 xx - week number
 y - day in the week , 1 - monday, 2- tuesday, etc
 z - time of the day , 1 - 0700-1800 , 2 - 1900-0700

i.e. the row beginning with 30111 contains the power loads from 7 to 18 o'clock on monday in week number 1, 1973.

Three different subsets of the data were used.

- A/ 8000 hours starting in 30221 covering almost the whole year
- B/ 1000 hours starting in 30221 covering roughly six weeks in the winter, i.e. the weeks 02,...,07
- C/ 1500 hours starting in 33311 covering roughly nine weeks in the autumn, i.e. the weeks 33,...,41.

The winter dataset is plotted in Figure 1 and the autumn dataset in Figure 2. These two sets of data have slightly different characteristics. The average load is lower in the autumn dataset than in the winter set, 3.59 GW compared to 4.26 GW. The influence of random disturbances on the load is more pronounced in the autumn load. Moreover, winter data has a more stable load pattern. These differences taken

together render the prediction of autumn data more difficult than prediction of winter data, which is also clearly seen in e.g. Figures 8 and 9 in Holst (1977).

In Holst (1977) one of the representatives of the nominal load was chosen as a profile over a week calculated as the mean value of the weekly loads during 1971 and 1972. This profile is given in Table 2 and plotted in Figure 3.

Data Storage

Data are stored on Dectape 34.10 together with similar measurement from 1971 and 1972. The contents of the tape is given in Table 3 below. The binary files are written in standard IDPAC-format.

Acknowledgement

I am most grateful to Civilingenjör Lennart Tyrén at the Swedish State Power Board, who supplied the data used in this application of the adaptive prediction algorithms.

References

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Department of Automatic Control, Lund Institute of Technology,
Lund, Sweden. CODEN: LUTFD2/(TFRT-1013)/1-206/(1977).
- Tyrén, L. (1974): Some Experiments with Short-Term Prediction of the
Load on the Power Network of the Swedish State Power Board.
(In Swedish). Report, Swedish State Power Board.

Table 1 - Hourly Power Load Measurements from 1973, weeks 01-06

30111	3026	3063	3300	3280	3325	3338	3323	3384	3554	3740	3821	3833
30112	3706	3728	3609	3370	3227	3036	3038	3001	3003	3077	3332	3894
30121	4517	4819	4816	4889	4961	4878	4853	4926	5184	5124	4985	4908
30122	4812	4639	4388	4065	3738	3535	3425	3400	3368	3377	3559	3992
30131	4566	4813	4777	4815	4818	4679	4556	4659	4892	4947	4948	4860
30132	4737	4645	4457	4054	3687	3478	3416	3425	3391	3424	3633	4080
30141	4711	4927	4878	4949	4912	4838	4792	4873	5046	5032	4996	4963
30142	4817	4692	4414	4064	3745	3526	3442	3431	3403	3438	3630	4070
30151	4678	4829	4668	4678	4719	4559	4488	4480	4696	4776	4749	4635
30152	4396	4317	4070	3902	3650	3422	3277	3234	3202	3145	3172	3242
30161	3335	3459	3532	3564	3619	3614	3516	3529	3710	3964	4063	4043
30162	3977	3886	3788	3677	3444	3264	3223	3182	3159	3150	3185	3251
30171	3369	3455	3504	3586	3688	3675	3606	3614	3780	4051	4155	4097
30172	4089	4047	3887	3630	3436	3337	3294	3269	3270	3316	3593	4108
30211	4865	5091	4899	4892	4901	4800	4770	4803	4973	5072	5066	4981
30212	4872	4750	4492	4058	3709	3564	3512	3469	3463	3465	3697	4126
30221	4814	5041	4938	4982	4874	4806	4700	4782	4950	5004	4951	4969
30222	4831	4669	4376	3960	3637	3507	3482	3425	3401	3413	3631	4107
30231	4842	5094	4917	4901	4853	4822	4742	4813	4937	5002	4973	4915
30232	4791	4748	4361	3951	3678	3523	3470	3437	3406	3425	3680	4140
30241	4860	5035	4892	4816	4901	4757	4671	4719	4857	4953	4994	4927
30242	4847	4698	4445	4055	3721	3586	3513	3476	3486	3509	3737	4122
30251	4962	5117	4999	4959	4968	4835	4741	4842	4923	4993	5026	5012
30252	4885	4718	4460	4204	3871	3649	3518	3456	3430	3423	3464	3587
30261	3792	3922	3993	4063	4042	4035	3996	3958	4080	4336	4421	4385
30262	4260	4135	3998	3849	3634	3440	3362	3298	3278	3226	3238	3320
30271	3439	3574	3671	3771	3866	3882	3824	3789	3907	4139	4268	4278
30272	4253	4162	4028	3767	3521	3413	3364	3370	3372	3405	3659	4165
30311	4928	5216	5071	5087	5073	5019	4990	5060	5169	5164	5158	5101
30312	5001	4864	4534	4147	3813	3713	3584	3569	3565	3592	3824	4309
30321	4937	5169	5038	5041	5052	4925	4861	4925	5091	5174	5162	5104
30322	4989	4781	4496	4093	3761	3604	3526	3505	3528	3554	3747	4295
30331	4905	5170	5076	5082	5021	4904	4862	4943	5064	5067	5101	5039
30332	4929	4757	4476	4072	3760	3642	3552	3527	3496	3536	3715	4269
30341	4956	5134	4986	5019	4996	4920	4887	4940	5078	5104	5104	5075
30342	5014	4855	4525	4136	3809	3615	3622	3573	3545	3600	3795	4309
30351	5000	5152	5062	5097	5052	4972	4856	4903	5001	5036	5091	5082
30352	4939	4726	4537	4239	3908	3668	3614	3557	3552	3513	3543	3672
30361	3885	4074	4150	4201	4196	4175	4086	4143	4256	4451	4570	4501
30362	4409	4299	4143	3954	3786	3558	3488	3492	3399	3375	3412	3480
30371	3606	3675	3812	3920	3975	3962	3917	3912	4025	4221	4335	4318
30372	4322	4202	4070	3719	3518	3443	3435	3421	3390	3441	3724	4205
30411	4901	5126	5026	5060	5042	4943	4893	4924	5076	5135	5104	5050
30412	4952	4832	4476	4081	3793	3678	3614	3577	3549	3585	3826	4234
30421	4855	5050	4991	4983	4994	4920	4921	4959	5077	5124	5144	5137
30422	5054	4910	4576	4131	3850	3699	3630	3579	3586	3606	3836	4356
30431	5050	5120	5100	5069	5108	5011	4965	4995	5085	5132	5136	5124
30432	5022	4878	4536	4106	3844	3691	3634	3520	3557	3591	3808	4302
30441	5001	5161	5106	5106	5074	4952	4974	5038	5124	5166	5150	5129
30442	5025	4857	4558	4161	3863	3703	3624	3598	3593	3602	3795	4296
30451	4945	5083	5034	5007	5006	4970	4894	4913	4963	4992	5016	4980
30452	4905	4707	4437	4081	3784	3562	3494	3434	3418	3367	3447	3617
30461	3771	3925	4016	4045	4040	4028	3963	3962	4019	4244	4355	4342
30462	4237	4108	3959	3850	3655	3425	3317	3265	3245	3230	3278	3357
30471	3484	3558	3637	3762	3865	3814	3754	3710	3822	3963	4239	4238
30472	4231	4156	4049	3765	3543	3432	3437	3430	3437	3481	3741	4200
30511	4849	5040	4996	5011	4996	4886	4868	4861	4921	4948	5004	4971
30512	4898	4745	4458	4055	3759	3575	3560	3513	3529	3529	3765	4227
30521	4917	5003	4941	4942	4934	4844	4786	4770	4887	4892	4948	4954
30522	4887	4702	4414	4015	3739	3553	3535	3509	3501	3544	3769	4245
30531	4866	4986	4927	4928	4933	4861	4843	4861	4930	4943	4994	4971
30532	4867	4709	4372	4024	3735	3565	3527	3487	3479	3508	3707	4208
30541	4864	4971	4935	4952	4949	4842	4827	4833	4914	4890	4965	4963
30542	4897	4737	4457	4074	3731	3586	3522	3499	3474	3528	3728	4229
30551	4844	4981	4860	4892	4921	4822	4770	4768	4786	4804	4903	4916
30552	4789	4567	4383	4069	3720	3510	3442	3398	3364	3347	3400	3536
30561	3701	3825	3904	3896	3922	3881	3827	3822	3894	4104	4306	4250
30562	4169	4053	3899	3691	3529	3313	3243	3193	3176	3191	3243	3312
30571	3418	3467	3577	3637	3677	3669	3628	3584	3679	3864	4096	4097
30572	4108	4024	3931	3633	3399	3316	3278	3249	3250	3297	3559	4064
30611	4722	4852	4833	4826	4881	4788	4778	4788	4789	4691	4818	4825
30612	4755	4588	4297	3948	3683	3512	3477	3458	3415	3430	3697	4192
30621	4818	4938	4877	4863	4863	4781	4737	4781	4870	4873	4921	4889
30622	4793	4656	4361	3946	3624	3488	3331	3391	3413	3422	3650	4156
30631	4803	4875	4831	4888	4813	4740	4682	4707	4720	4678	4855	4889
30632	4808	4662	4353	4043	3770	3538	3547	3486	3486	3510	3727	4232
30641	4843	4898	4820	4829	4796	4712	4639	4676	4676	4711	4919	4927
30642	4871	4716	4455	4061	3734	3536	3510	3466	3486	3511	3717	4240
30651	4871	4903	4872	4856	4871	4747	4646	4620	4625	4629	4870	4959
30652	4887	4704	4510	4202	3847	3655	3627	3569	3561	3553	3633	3777
30661	3907	4032	4136	4150	4129	4091	3967	3932	3976	4107	4460	4492
30662	4353	4212	4072	3944	3716	3490	3435	3403	3365	3356	3397	3489
30671	3563	3636	3752	3842	3917	3842	3712	3695	3759	3872	4204	4255
30672	4212	4174	4033	3771	3562	3462	3436	3421	3425	3489	3758	4233

Table 1 Continuation - Hourly Power Load Measurements from 1973, weeks 07-12

30711	4815	4973	4949	5012	5020	4915	4882	4953	4967	4863	4987	4972
30712	4910	4771	4445	4136	3785	3636	3577	3553	3556	3582	3775	4220
30721	4627	4958	4903	4937	4908	4776	4803	4834	4861	4779	4930	4941
30722	4863	4682	4400	4073	3741	3635	3593	3534	3493	3523	3747	4208
30731	4758	4873	4785	4790	4835	4714	4694	4702	4735	4638	4875	4909
30732	4821	4678	4392	4048	3730	3581	3563	3555	3525	3543	3781	4253
30741	4796	4929	4884	4901	4919	4756	4702	4762	4801	4749	4951	4980
30742	4822	4700	4480	4192	3804	3658	3633	3586	3570	3587	3818	4235
30751	4794	4906	4932	4956	4990	4861	4762	4769	4748	4688	4891	4970
30752	4842	4663	4491	4191	3876	3636	3582	3540	3514	3478	3557	3715
30761	3871	3976	4090	4084	4098	4091	4057	3993	4023	4115	4336	4388
30762	4258	4127	3989	3780	3657	3478	3382	3358	3321	3313	3339	3394
30771	3481	3565	3692	3789	3825	3832	3800	3745	3762	3840	4086	4178
30772	4170	4094	3999	3713	3485	3417	3370	3354	3337	3385	3641	4180
30811	4716	4924	4877	4906	4972	4820	4783	4836	4815	4645	4816	4893
30812	4804	4690	4352	3964	3684	3608	3548	3515	3536	3562	3773	4198
30821	4763	4883	4908	4918	4910	4759	4708	4706	4701	4587	4703	4830
30822	4777	4584	4284	3975	3707	3546	3484	3436	3446	3463	3661	4141
30831	4676	4787	4786	4822	4797	4639	4602	4648	4607	4493	4672	4808
30832	4737	4601	4305	3978	3704	3552	3485	3483	3478	3505	3752	4244
30841	4758	4868	4858	4873	4903	4797	4699	4717	4730	4593	4736	4884
30842	4830	4767	4442	4134	3835	3690	3643	3605	3618	3632	3885	4360
30851	4844	4994	4917	4915	4887	4816	4775	4774	4741	4618	4789	4987
30852	4891	4756	4559	4205	3946	3735	3705	3647	3652	3645	3720	3838
30861	3951	4066	4119	4100	4119	4013	3990	3922	3895	3939	4198	4412
30862	4369	4308	4099	3999	3725	3635	3595	3551	3523	3506	3519	3504
30871	3616	3734	3878	3900	3874	3809	3788	3739	3745	3766	4048	4269
30872	4285	4203	4074	3852	3619	3534	3499	3521	3539	3627	3904	4378
30911	4881	5033	5027	5044	4989	4846	4838	4814	4826	4667	4806	5079
30912	5042	4900	4614	4291	4052	3922	3882	3865	3829	3871	4102	4566
30921	5023	5170	5110	5089	5052	4871	4821	4832	4883	4734	4839	5078
30922	5017	4863	4582	4221	3999	3841	3798	3794	3794	3818	4086	4490
30931	4887	5043	5009	5009	5032	4912	4819	4843	4862	4701	4783	4903
30932	4889	4748	4508	4143	3843	3674	3645	3611	3597	3605	3790	4224
30941	4632	4811	4777	4782	4771	4587	4562	4539	4563	4413	4523	4741
30942	4721	4586	4285	3995	3741	3550	3463	3433	3457	3454	3704	4102
30951	4562	4723	4741	4728	4725	4697	4610	4667	4639	4461	4571	4683
30952	4598	4484	4292	3942	3668	3501	3428	3386	3347	3320	3387	3483
30961	3560	3746	3865	3849	3837	3823	3792	3776	3778	3838	4018	4193
30962	4093	4002	3826	3682	3472	3270	3234	3163	3160	3173	3201	3224
30971	3234	3414	3535	3563	3655	3641	3483	3401	3491	3563	3747	3979
30972	4025	4006	3839	3637	3388	3316	3290	3267	3257	3332	3497	3977
31011	4568	4797	4812	4785	4813	4724	4635	4589	4586	4367	4434	4640
31012	4674	4522	4227	3910	3629	3499	3460	3411	3410	3466	3716	4119
31021	4580	4769	4752	4758	4703	4558	4501	4512	4535	4377	4476	4722
31022	4707	4551	4296	3958	3659	3487	3453	3443	3430	3429	3735	4131
31031	4644	4796	4782	4761	4726	4576	4460	4487	4495	4299	4366	4648
31032	4712	4587	4324	4028	3805	3615	3545	3479	3519	3574	3798	4191
31041	4644	4762	4735	4740	4704	4633	4508	4533	4535	4387	4410	4732
31042	4778	4676	4366	4048	3728	3608	3568	3562	3543	3576	3774	4201
31051	4682	4818	4758	4768	4749	4663	4573	4571	4573	4363	4473	4710
31052	4706	4587	4282	3956	3754	3475	3426	3375	3356	3325	3370	3406
31061	3495	3672	3801	3804	3829	3756	3656	3560	3548	3580	3696	3970
31062	3965	3895	3700	3541	3334	3234	3179	3132	3110	3135	3162	3155
31071	3251	3346	3461	3538	3562	3508	3382	3346	3347	3346	3485	3805
31072	3900	3853	3663	3374	3246	3198	3174	3170	3190	3231	3429	3776
31111	4371	4525	4457	4520	4538	4360	4342	4337	4339	4191	4216	4511
31112	4516	4406	4076	3698	3421	3342	3324	3276	3274	3277	3517	3839
31121	4404	4561	4546	4598	4569	4368	4356	4378	4256	4148	4151	4480
31122	4527	4452	4117	3776	3520	3392	3316	3280	3286	3309	3583	3865
31131	4406	4578	4546	4557	4569	4426	4403	4423	4370	4179	4227	4470
31132	4590	4494	4151	3804	3550	3410	3364	3323	3319	3365	3591	3946
31141	4483	4524	4456	4495	4515	4377	4345	4359	4358	4165	4192	4467
31142	4556	4429	4140	3809	3524	3390	3315	3315	3315	3359	3578	3887
31151	4443	4617	4609	4636	4613	4507	4470	4456	4405	4231	4219	4447
31152	4472	4274	4106	3779	3514	3349	3318	3250	3252	3254	3317	3344
31161	3492	3672	3715	3727	3746	3753	3713	3679	3663	3722	3749	3937
31162	3977	3865	3714	3565	3352	3261	3191	3184	3137	3147	3150	3141
31171	3194	3343	3447	3459	3476	3473	3357	3346	3343	3376	3450	3724
31172	3891	3931	3751	3486	3298	3263	3271	3230	3258	3327	3562	3883
31211	4449	4623	4557	4605	4559	4369	4346	4444	4410	4236	4272	4492
31212	4554	4418	4150	3828	3556	3389	3305	3280	3252	3243	3405	3756
31221	4366	4494	4441	4449	4442	4255	4249	4367	4348	4206	4179	4373
31222	4515	4387	4086	3746	3426	3335	3284	3254	3247	3302	3463	3803
31231	4352	4525	4492	4500	4385	4342	4255	4282	4239	4102	4083	4327
31232	4404	4320	4100	3728	3476	3315	3307	3289	3266	3314	3513	3823
31241	4430	4588	4568	4545	4536	4340	4304	4366	4380	4213	4176	4421
31242	4512	4392	4064	3741	3431	3336	3293	3249	3253	3284	3457	3774
31251	4397	4534	4452	4509	4464	4333	4288	4261	4169	3958	3935	4125
31252	4264	4204	3963	3674	3399	3229	3200	3140	3128	3129	3129	3183
31261	3317	3490	3592	3602	3568	3502	3380	3305	3271	3274	3286	3492
31262	3715	3624	3506	3358	3138	3049	2998	2937	2921	2885	2829	2862
31271	2981	3141	3231	3236	3260	3211	3093	3060	3040	3080	3150	3371
31272	3634	3587	3464	3122	2992	2938	2892	2877	2884	2887	3087	3505

Table 1 Continuation - Hourly Power Load Measurements from 1973, weeks 49-53

34911	5342	5529	5392	5407	5330	5224	5254	5275	5425	5433	5330	5117
34912	5009	4870	4624	4178	3955	3837	3779	3769	3774	3811	4017	4494
34921	5201	5289	5210	5205	5178	5109	5049	5153	5438	5410	5359	5253
34922	5162	5006	4693	4364	4127	3981	3963	3898	3866	3905	4140	4612
34931	5289	5436	5337	5354	5308	5209	5189	5291	5477	5496	5452	5371
34932	5270	5115	4808	4425	4167	4112	4078	4027	3982	4009	4227	4733
34941	5299	5414	5318	5332	5255	5128	5146	5234	5324	5301	5242	5119
34942	5002	4831	4555	4204	3928	3865	3850	3799	3791	3843	4002	4488
34951	5323	5387	5430	5423	5365	5289	5224	5291	5501	5526	5440	5383
34952	5262	5114	4800	4477	4219	4054	4019	3939	3898	3941	3957	4060
34961	4320	4477	4542	4543	4490	4495	4446	4470	4700	4876	4875	4832
34962	4714	4569	4464	4323	4161	4007	3904	3889	3872	3849	3904	4006
34971	4093	4205	4322	4395	4494	4499	4428	4451	4616	4818	4843	4827
34972	4807	4737	4611	4405	4175	4079	4018	3985	3995	4016	4179	4642
35011	5332	5525	5469	5394	5406	5314	5302	5367	5489	5404	5357	5240
35012	5101	4973	4642	4242	3910	3799	3751	3727	3700	3701	3888	4396
35021	5117	5317	5229	5215	5164	5099	4984	5079	5231	5223	5209	5113
35022	4980	4820	4572	4188	3857	3685	3698	3648	3644	3671	3909	4392
35031	5065	5215	5120	5136	5121	5087	5050	5158	5294	5288	5296	5226
35032	5145	5004	4669	4230	3943	3852	3816	3777	3789	3815	4041	4566
35041	5199	5274	5146	5203	5178	5128	5087	5209	5289	5237	5205	5094
35042	4979	4861	4579	4159	3886	3746	3756	3696	3685	3687	3900	4371
35051	5030	5244	5144	5148	5095	4995	5019	5097	5189	5164	5105	5020
35052	4908	4815	4540	4237	3984	3818	3769	3707	3720	3684	3701	3845
35061	4079	4277	4276	4316	4332	4323	4267	4324	4575	4742	4703	4655
35062	4557	4452	4340	4168	4020	3808	3727	3743	3672	3605	3664	3716
35071	3835	3956	4080	4190	4258	4240	4174	4226	4369	4492	4500	4482
35072	4411	4292	4149	3958	3737	3684	3608	3622	3598	3621	3718	4092
35111	4964	5176	5113	5114	5089	5026	4975	5086	5186	5155	5119	5034
35112	4954	4823	4520	4111	3859	3804	3772	3712	3725	3741	3943	4425
35121	5136	5288	5245	5223	5168	5097	5064	5192	5298	5325	5248	5184
35122	5117	4974	4668	4342	4074	3972	3904	3862	3863	3911	4116	4604
35131	5290	5448	5335	5358	5348	5220	5206	5344	5433	5345	5274	5221
35132	5111	4943	4654	4292	4049	3916	3830	3802	3781	3797	4000	4449
35141	5166	5327	5210	5178	5200	5132	5066	5198	5307	5282	5219	5177
35142	5140	4939	4677	4242	4014	3830	3832	3764	3745	3770	3956	4350
35151	4920	5168	5059	5008	4976	4868	4744	4748	4788	4797	4780	4788
35152	4674	4511	4253	3966	3715	3553	3514	3444	3398	3401	3435	3532
35161	3743	3935	4047	4005	3974	4006	3978	4049	4222	4354	4312	4245
35162	4142	4037	3914	3695	3494	3303	3238	3185	3182	3168	3181	3244
35171	3356	3566	3729	3812	3834	3808	3746	3790	3910	4054	4076	4053
35172	3974	3885	3752	3630	3466	3310	3153	3122	3059	3074	3014	3061
35211	3282	3470	3535	3492	3467	3471	3392	3353	3518	3632	3578	3482
35212	3409	3320	3220	3181	3098	2925	2829	2782	2815	2774	2874	2907
35221	2968	3045	3141	3174	3225	3273	3179	3243	3374	3509	3480	3469
35222	3424	3385	3302	3260	3010	2907	2862	2833	2800	2829	2917	2902
35231	3038	3102	3327	3364	3395	3404	3352	3391	3495	3614	3593	3623
35232	3647	3596	3535	3421	3281	3040	2990	2979	2958	2991	3182	3485
35241	3890	4112	4075	4196	4169	4152	4119	4113	4211	4332	4309	4338
35242	4147	3954	3970	3704	3452	3256	3290	3220	3152	3052	3317	3576
35251	3929	4086	4145	4043	4087	4007	3974	4029	4189	4300	4303	4254
35252	4126	3963	3838	3620	3459	3298	3232	3186	3171	3119	3166	3318
35261	3457	3594	3704	3688	3719	3746	3708	3751	3898	3992	3924	3867
35262	3826	3635	3540	3389	3287	3125	3029	3022	2984	2947	2970	3041
35271	3123	3232	3349	3367	3487	3520	3461	3449	3556	3664	3696	3672
35272	3630	3543	3480	3306	3131	2976	2939	2924	2920	2922	2993	3133
35311	3301	3443	3542	3483	3477	3536	3373	3329	3410	3560	3595	3553
35312	3431	3342	3220	3180	3140	3052	2967	2856	2763	2740	2765	2825
35321	2914	2919	3055	3049	3135	3186	3182	3257	3332	3548	3610	3588
35322	3587	3508	3384	3251	3094	3045	3040	2990	3015	3033	3313	3735
35331	4311	4600	4579	4588	4603	4573	4506	4636	4688	4599	4544	4439
35332	4360	4213	3970	3729	3557	3414	3437	3434	3376	3362	3484	3849
35341	4480	4635	4575	4668	4658	4586	4565	4579	4699	4617	4561	4485
35342	4354	4227	4002	3695	3494	3390	3397	3338	3340	3369	3495	3822
35351	4422	4597	4557	4575	4590	4549	4477	4577	4666	4594	4530	4397
35352	4310	4167	3944	3674	3452	3350	3271	3297	3225	3182	3210	3323
35361	3421	3588	3637	3732	3738	3757	3737	3743	3854	3893	3893	3810
35362	3701	3624	3544	3412	3309	3090	3067	3013	3013	3017	3017	3059
35371	3077	3186	3272	3361	3460	3530	3455	3425	3486	3630	3669	3644

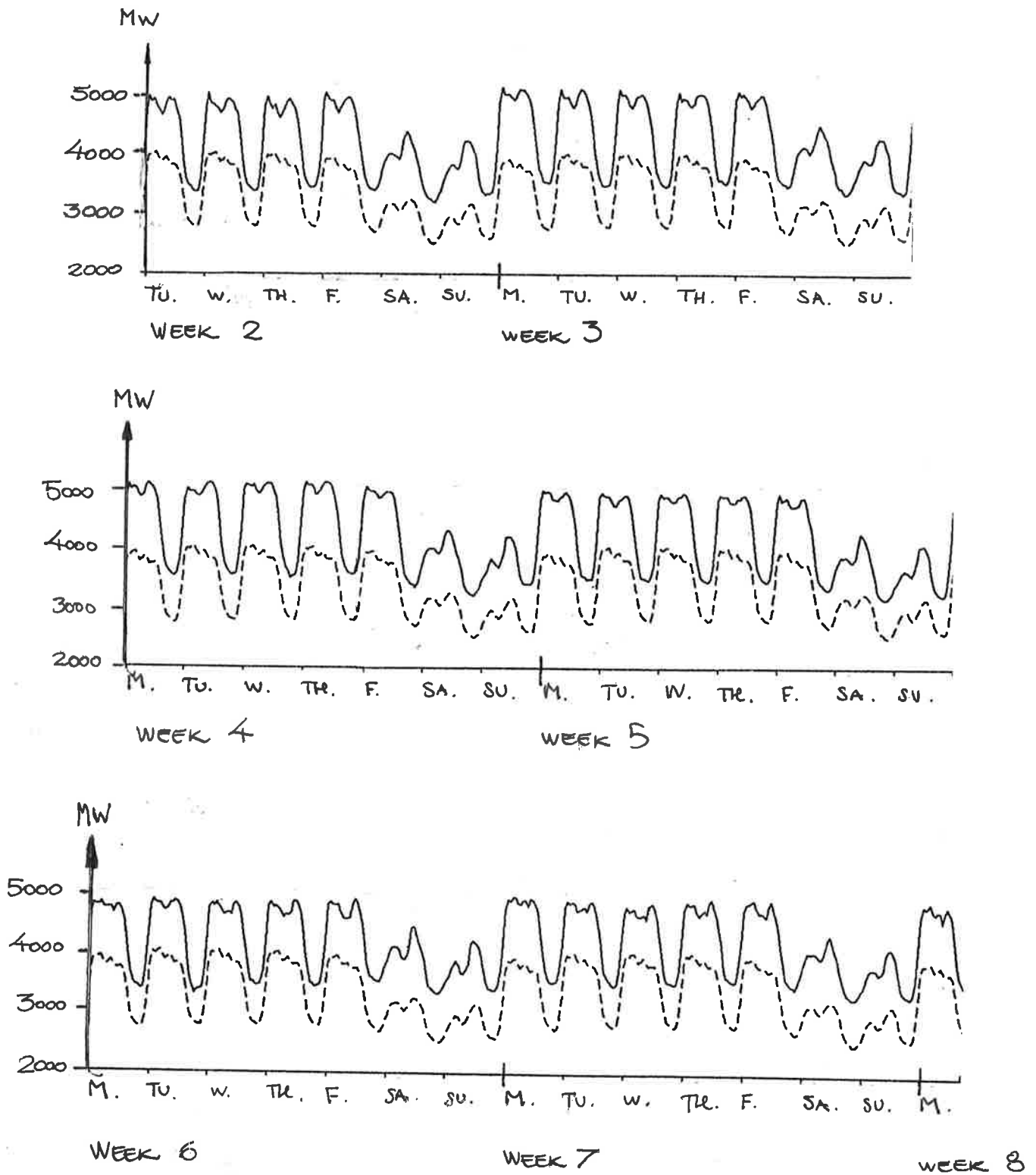


Figure 1 - The winter dataset containing 1000 hourly load measurements from the weeks 02,...,07 in 1973 starting in 30221,cf Table 1. The dotted line shows the mean value of the load over the year.

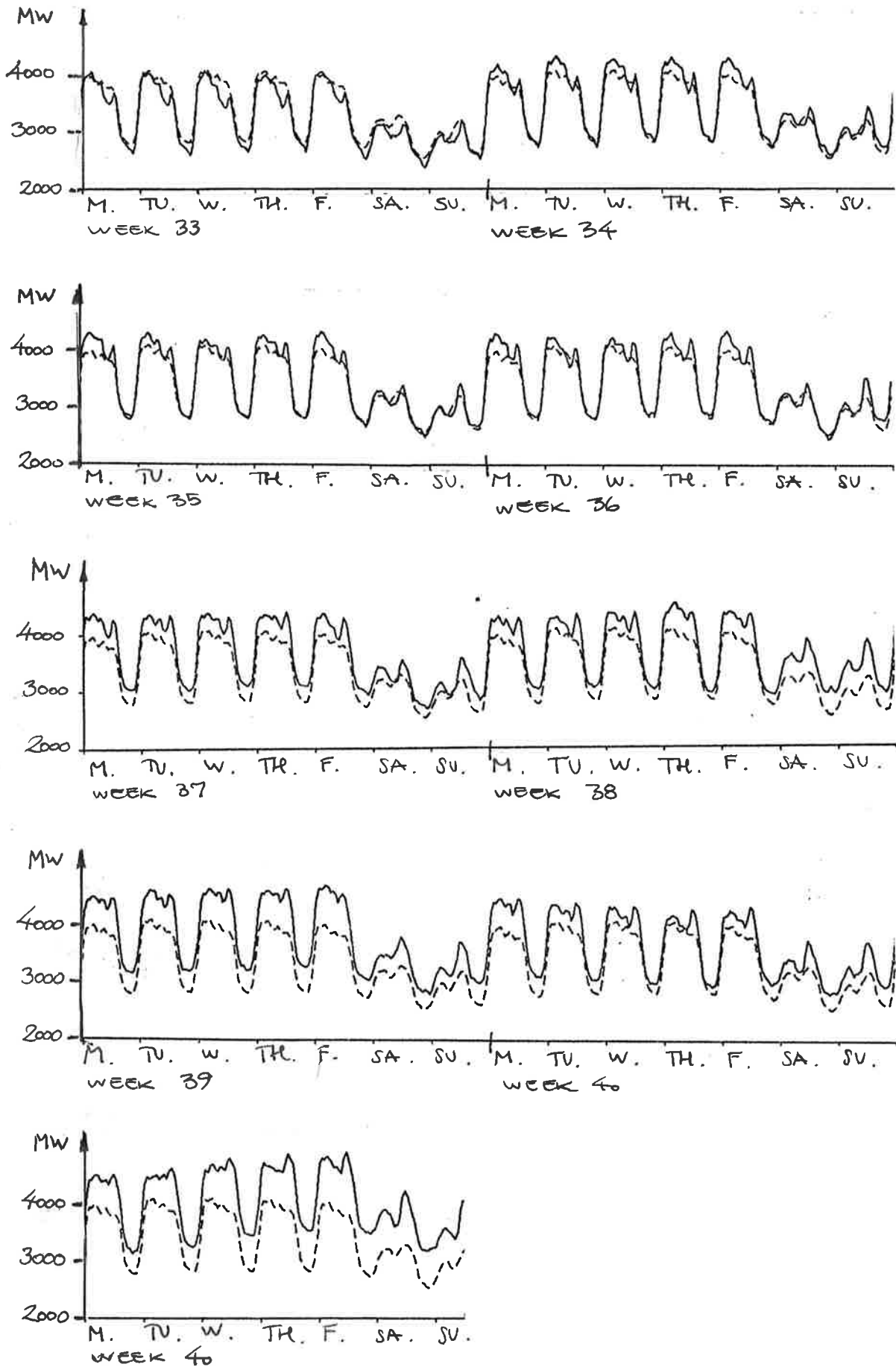


Figure 2 - The autumn dataset containing 1500 hourly load measurements from the weeks 33,...,41 in 1973 starting in 33311,cf Table 1. The dotted line shows the mean value of the load over the year.

Table 2 - Mean value of the weekly load during 1971 and 1972.

3742.85	3921.37	3905.92	3938.88	3965.15	3868.71	3804.80	3841.39	3890.46	3810.35	3756.67	3770.17
3772.39	3717.13	3531.94	3259.43	2999.33	2873.69	2826.67	2792.05	2767.20	2775.85	2972.18	3348.99
3877.23	4034.87	4010.52	4047.15	4064.17	3964.01	3904.30	3942.17	3981.18	3907.33	3845.46	3851.80
3840.50	3763.90	3591.03	3307.87	3044.42	2920.68	2860.03	2829.35	2807.32	2810.85	3001.34	3378.11
3897.84	4046.12	4019.96	4057.48	4069.09	3977.54	3910.60	3941.76	3988.91	3910.28	3853.41	3860.15
3848.35	3788.65	3601.87	3340.87	3078.86	2932.74	2880.10	2842.87	2813.97	2819.28	3003.26	3368.23
3888.01	4030.13	4004.08	4040.22	4060.03	3964.01	3897.86	3921.57	3962.77	3885.91	3839.80	3852.98
3848.09	3789.26	3602.33	3328.37	3059.01	2925.19	2873.27	2836.05	2808.54	2815.08	2988.79	3345.91
3827.03	3974.27	3952.74	3979.34	3997.62	3907.15	3836.72	3844.92	3864.12	3801.26	3769.34	3796.83
3789.56	3717.91	3542.87	3333.47	3062.78	2901.23	2831.68	2782.98	2745.06	2709.40	2730.28	2827.56
2976.25	3102.28	3177.95	3189.22	3203.24	3187.80	3114.74	3065.17	3099.12	3168.77	3233.65	3277.74
3271.35	3228.50	3152.04	3051.34	2877.96	2704.47	2632.13	2591.39	2547.42	2525.87	2540.80	2592.54
2676.61	2786.80	2884.84	2946.48	2993.01	2971.77	2882.94	2844.84	2888.38	2981.27	3065.61	3146.33
3191.46	3193.63	3111.21	2938.29	2755.61	2680.93	2641.81	2619.81	2605.89	2630.82	2832.37	3214.41

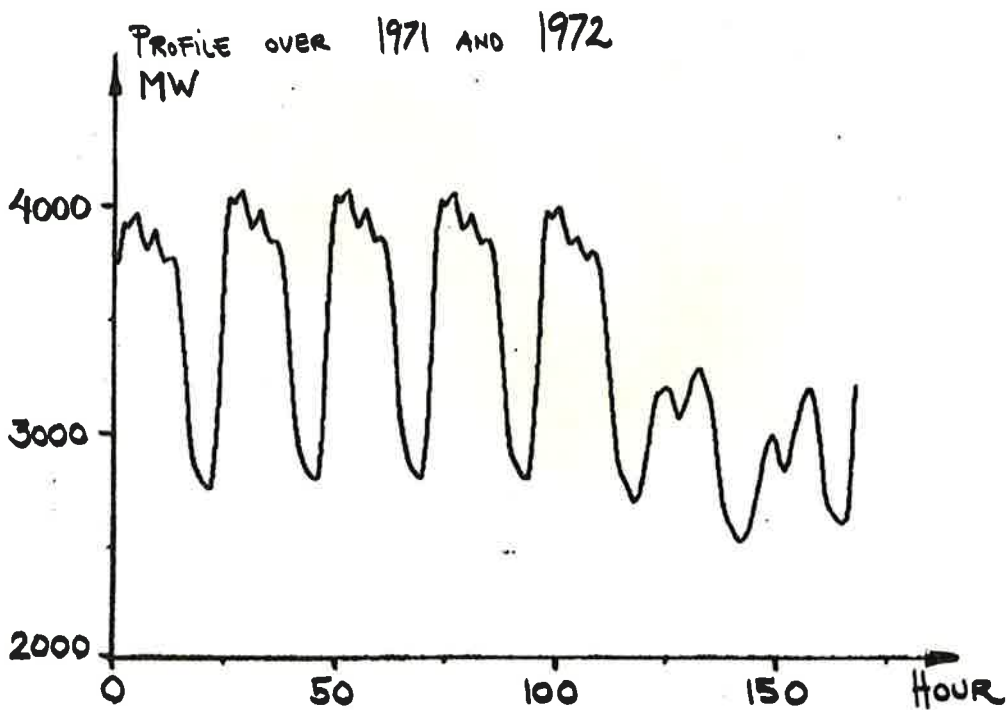


Figure 3 - Mean value of the weekly load during 1971 and 1972.

Table 3 - The contents of Dectape 34.10

DAT71 SRC	Data from 1971. ASCII-code.
DAT72 SRC	Data from 1972. ASCII-code.
DAT73 SRC	Data from 1973. ASCII-code.
DAT73 BIN	Data from 1973. Binary code.
P7172 BIN	Profile over 1971 and 1972. Binary code.