

IONOSPHERE

The following tables give the values of mean ionospheric absorption at oblique incidence (A3) for certain zenith distances of the Sun (χ) expressed in decibels (dB). Values for ground sunset (SS) and ground (SR) are given for periods of 20 minutes centered on the times of $\chi = 90^\circ$. Night values have been determined by taking the periods ranging from $\chi = 100^\circ$ to 23 00 GMT. The date column gives year, month, day (e.g. 900101 indicates 1990 January 1). SS and Night values in actual row are valid for the actual day, however, the SR values always for the next day's dawn. Values uncertain for some reason are entered in round brackets ().

The sky wave of the transmitter Československo ($f = 272$ kHz) has been recorded since January 1967. The geographical coordinates of the reflection point are 48.4° N, 17.1° E. Because of reconstruction works on the transmitter Československo, the absorption measurement at 272 kHz and the publication of data were suspended from April 1975 till September 1978. (At present the transmitter frequency is 270 kHz.)

The equipment and the method have been described in the papers by BENCZE P and MÄRCZ F: "Atmosphärisch-elektrische und ionosphärische Messungen im Observatorium bei Nagycenk". Observatoriumsberichte des Geophysikalischen Forschungslaboratoriums der Ungarischen Akademie der Wissenschaften vom Jahre 1966, Sopron, 1967, as well as by BENCZE P, HORVÁTH J, MÄRCZ F: "A new equipment for the measurement of ionospheric absorption" Geophysical Observatory Report of the Geodetic and Geophysical Research Institute of the Hungarian Academy of Sciences, Year 1975. Observatory of Nagycenk, Sopron, 1976. Further information is given by BENCZE P and MÄRCZ F: "The Geophysical Observatory near Nagycenk II. Atmospheric electric and ionospheric measurements" (*Acta Geod. Geoph. Mont. Hung.*, 16(1981), 353-357).

Mean ionospheric absorption L' (dB) at oblique incidence (A3)
 $f = 270$ kHz
 1990

Date	SS	Night	SR
900101	33.2	24.4	35.2
900102	30.3	24.4	28.2
900103	41.2	24.4	30.3
900104	37.7	22.7	37.7
900105	37.7	25.7	31.7
900106	41.2	21.4	27.2
900107	37.7	23.8	28.2
900108	30.3	27.2	33.2
900109	30.3	24.4	37.7
900110	41.2	31.7	41.2
900111	37.7	27.2	35.2
900112	41.2	29.2	35.2
900113		26.4	37.7
900114	37.7	29.2	26.4
900115	41.2	26.4	25.0
900116	41.2	24.4	37.7
900117	37.7	19.5	25.0
900118	41.2	23.8	30.3
900119	37.7	26.4	30.3
900120	35.2	19.5	26.4
900121	30.3	23.8	33.2
900122	28.2	25.7	30.3
900123	41.2	23.2	
900124	41.2	26.4	31.7
900125	31.7	24.4	28.2
900126	35.2	22.7	31.7
900127	26.4	23.2	30.3
900128	37.7	24.4	30.3
900129	30.3	24.4	26.4
900130	35.2	23.2	24.4
900131	35.2	25.0	25.7
900201	33.2	21.8	26.4
900202	31.7	23.2	
900203	28.2	21.8	25.7
900204	37.7	22.2	25.0
900205	28.2	19.9	23.2
900206	30.3	22.7	21.4
900207	29.2	24.4	23.2
900208	24.4	21.8	30.3

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
900209	27.2	21.8	24.4
900210	23.2	19.2	27.2
900211	33.2	22.2	23.2
900212	23.8	20.6	28.2
900213	21.4	20.2	21.0
900214	27.2	21.8	27.2
900215	31.7	27.2	31.7
900216	29.2	24.4	23.2
900217	28.2	21.0	25.0
900218	27.2	18.9	27.2
900219	35.2	25.7	30.3
900220	25.7	23.2	25.0
900221	30.3	21.8	23.8
900222	20.6	23.8	21.8
900223	29.2	19.9	28.2
900224	33.2	23.2	27.2
900225	26.4	19.5	21.4
900226	24.4	19.5	27.2
900227	23.8	18.6	
900228	26.4	17.6	37.7
900301	29.2	19.5	31.7
900302	31.7	21.8	30.3
900303	35.2	18.6	33.2
900304	23.2	21.4	27.2
900305	21.4	20.2	26.4
900306	30.4	23.8	26.4
900307			
900308	30.3	18.6	18.2
900309	24.4	25.7	29.2
900310	25.7	23.2	24.4
900311	28.2	21.8	30.3
900312	31.7	21.8	27.2
900313	37.7	24.4	24.4
900314	23.2	15.9	23.8
900315	31.7	19.5	27.2
900316	23.2	19.9	22.2
900317	41.2	23.8	24.4
900318	33.2	18.9	35.2
900319	30.3	18.1	24.4
900320	28.2	19.9	26.4
900321	30.3	20.6	21.0
900322	31.7	21.4	31.7
900323	27.2	23.2	25.0

Date	SS	Night	SR
900324	29.2	21.8	26.4
900325	31.7	24.4	25.0
900326	27.2	26.4	30.3
900327	29.2	23.8	
900328	33.2	21.4	29.2
900329	35.2	23.8	29.2
900330	33.2	19.5	30.3
900331	30.3	23.8	25.0
900401	30.3	18.1	26.4
900402	28.2	21.8	28.2
900403	41.2	20.6	24.4
900404	27.2	17.1	21.4
900405	21.8	16.5	23.2
900406	21.4	21.4	23.2
900407	22.7	21.0	28.2
900408	19.2	24.4	31.7
900409	28.2	21.4	24.4
900410	27.2	22.7	24.4
900411	26.4	19.2	19.9
900412	21.8	19.9	26.4
900413	26.4	25.0	21.4
900414	19.5	17.8	28.2
900415	26.4	21.0	18.6
900416	24.4	18.1	21.4
900417	35.2	19.9	21.4
900418	30.3	20.6	23.2
900419	28.2	18.9	33.2
900420	25.7	21.0	23.8
900421	28.2	(19.2)	
900422	25.7	20.6	35.2
900423	30.3	27.2	28.2
900424	29.2	23.2	37.7
900425	28.2	22.7	26.4
900426	26.4	22.7	21.8
900427	26.4	23.2	25.7
900428	25.0	23.2	27.2
900429	41.2	25.7	30.3
900430	21.8	18.1	21.0
900501			
900502			
900503			
900504	29.2	17.6	26.4
900505	30.3	18.9	29.2

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
900506	30.3	21.0	24.4
900507	29.2	17.3	22.7
900508	19.5	16.5	29.2
900509	26.4	23.8	22.7
900510	27.2	25.0	26.4
900511	31.7	26.4	21.8
900512			
900513	37.7	23.2	21.8
900514	29.2	26.4	27.2
900515	33.2	22.7	29.2
900516			
900517	30.3	19.9	23.8
900518	31.7	20.2	35.2
900519	28.2	25.7	
900520	22.2	26.4	28.2
900521	37.7	24.4	41.2
900522	37.7	31.7	
900523		21.0	21.8
900524	31.7	22.7	27.2
900525	27.2	21.8	29.2
900526	30.3	24.4	28.2
900527	30.3	23.2	26.4
900528	29.2	22.7	27.2
900529	30.3	24.4	29.2
900530	33.2	30.3	25.0
900531	26.4	29.2	33.2
900601	31.7	25.7	28.2
900602	24.4	24.4	26.4
900603	35.2	27.2	28.2
900604			
900605	29.2	24.4	26.4
900606	35.2	22.7	25.7
900607	23.8	23.2	23.8
900608	28.2	19.5	29.2
900609	35.2	22.7	29.2
900610	27.2	21.8	25.0
900611	28.2	25.0	27.2
900612	33.2	24.4	31.7
900613	25.7	20.2	25.0
900614	26.4	24.4	29.2
900615	28.2		27.2
900616	23.8	23.8	31.7
900617	23.2	22.2	24.4

Date	SS	Night	SR
900618	30.3	24.4	25.7
900619	21.8	23.8	26.4
900620	35.2	20.6	23.2
900621	41.2	20.6	27.2
900622	24.4	27.2	24.4
900623	26.4	24.4	26.4
900624	29.2	22.2	31.7
900625	26.4	23.8	27.2
900626			
900627	33.2	21.4	31.7
900628	30.3	21.8	25.7
900629	23.2	20.6	25.0
900630	29.2	23.8	37.7
900701	26.4	25.7	28.2
900702	29.2	21.8	26.4
900703	28.2	19.5	23.8
900704	31.7	21.8	27.2
900705	21.4	23.8	30.3
900706	31.7	25.0	26.4
900707	27.2	22.2	35.2
900708	27.2	24.4	25.0
900709	26.4	21.0	27.2
900710	19.5	22.2	24.4
900711	28.1	22.2	21.0
900712	20.6	19.5	21.4
900713	26.4	24.4	24.4
900714	27.2	23.8	29.2
900715	27.2	26.4	23.8
900716	30.3	21.8	26.4
900717	29.2	21.4	27.2
900718	24.4	22.2	26.4
900719	26.4	20.6	30.3
900720	31.7	24.4	29.2
900721	37.7	25.7	27.2
900722	24.4	23.8	23.2
900723	35.2	24.4	25.0
900724	31.7	23.2	30.3
900725	24.4	24.4	29.2
900726	41.2	18.1	25.7
900727	26.4	23.2	31.7
900728	27.2	27.2	24.4
900729	25.0	21.4	23.2
900730	28.2	21.0	23.2

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
900731	28.2	19.5	26.4
900801	33.2		21.4
900802	27.2	24.4	23.2
900803	27.2	23.2	25.7
900804			
900805	25.7	24.4	25.7
900806	26.4	22.2	37.7
900807	29.2	24.4	26.4
900808	31.7	16.9	27.2
900809	35.2	28.2	30.3
900810	41.2	24.4	30.3
900811	29.2	27.2	28.2
900812	21.0	19.9	26.4
900813	23.2	19.2	28.2
900814	32.2	17.6	26.4
900815	23.8	25.7	25.0
900816	23.2	21.0	25.7
900817	31.7	21.0	30.3
900818	19.2	24.4	26.4
900819	31.7	20.2	25.0
900820	28.2	25.7	31.7
900821	33.2	23.2	
900822	22.2	20.6	31.7
900823	29.2	20.2	33.2
900824	33.2	21.0	27.2
900825	26.4	21.4	26.4
900826	28.2	17.6	28.2
900827	26.4	22.7	33.2
900828	24.4	16.3	29.2
900829	27.2	18.1	29.2
900830	29.2	18.6	28.2
900831	23.8	16.5	27.2
900901	27.2	21.4	28.2
900902	25.7	20.2	28.2
900903	30.3	18.6	26.4
900904	33.2	21.0	37.7
900905	31.7	22.2	30.3
900906	31.7	21.0	26.4
900907	30.3	18.6	26.4
900908	21.4	18.3	23.8
900909	27.2	21.8	25.0
900910	30.3	23.8	23.8
900911	30.3	16.1	31.7

Date	SS	Night	SR
900912	20.2	14.8	28.2
900913	27.2	21.0	33.2
900914	31.7	21.0	28.2
900915	29.2	17.8	33.2
900916	29.2	17.8	
900917			
900918			
900919			
900920			
900921			
900922	24.4	19.9	28.2
900923	26.4	19.5	31.7
900924	31.7	19.5	27.2
900925			
900926	22.7	23.2	24.4
900927	23.8	18.3	21.0
900928	28.2	17.3	23.8
900929	27.2	19.2	26.4
900930	31.7	17.8	24.4
901001	30.3	17.3	25.0
901002	25.0	16.3	22.7
901003	25.7	20.2	30.3
901004	19.2	19.5	27.2
901005	23.8	21.4	23.2
901006	20.6	16.7	29.2
901007	19.9	18.9	29.2
901008	19.5	16.9	18.6
901009	21.0	20.2	18.6
901010	25.0	14.8	25.7
901011	25.7	22.2	23.2
901012	27.2	18.6	23.2
901013	28.2	17.6	22.2
901014	23.2	20.6	23.2
901015	23.8	16.9	25.7
901016	23.8	20.2	25.7
901017			
901018	21.0	18.6	26.4
901019	29.2	21.4	23.2
901020	28.2	19.5	18.6
901021	23.2	16.9	26.4
901022	33.2	21.8	23.2
901023	35.2	21.4	
901024	23.2	19.5	30.3

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
901025	26.4	(20.6)	
901026	27.2	18.9	21.8
901027	25.0	19.5	22.2
901028	23.2	16.9	21.8
901029	25.7	21.0	22.2
901030	23.8	16.5	18.3
901031	23.2	19.5	24.4
901101	23.2	18.9	26.4
901102	27.2	17.1	23.2
901103	30.3	17.1	22.2
901104	20.6	22.7	25.7
901105	28.2	16.3	25.7
901106	31.7	16.7	
901107	24.4	18.3	
901108	22.7		
901109	22.2	18.6	21.4
901110	22.7	18.9	22.7
901111	25.0	21.4	20.6
901112	31.7	14.0	23.2
901113	31.7	18.1	23.8
901114	22.2	14.6	23.8
901115	35.2	18.3	31.7
901116			
901117			
901118	30.3	17.6	24.4
901119	21.4	20.2	24.4
901120			
901121	30.3	19.2	29.2
901122	29.2	23.2	27.2
901123	33.2	23.2	31.7
901124	30.3	20.2	25.7
901125	31.7	21.4	35.2
901126	37.7	21.4	35.2
901127	29.2	23.2	
901128	33.2	23.8	28.2
901129	33.2	20.2	26.4
901130	37.7	(21.4)	
901201			
901202			
901203			
901204	29.2	23.8	
901205	30.3	22.2	23.8
901206			

Date	SS	Night	SR
901207	29.2	27.2	30.3
901208	37.7	22.2	30.3
901209	33.2	19.9	33.2
901210	33.2	23.2	30.3
901211	27.2	20.6	30.3
901212	35.2	21.8	35.2
901213	35.2	26.4	31.7
901214	37.7	22.7	41.2
901215	33.2	27.2	30.3
901216	35.2	21.4	35.2
901217	37.7	21.8	28.2
901218	31.7	25.0	31.7
901219	33.2	18.3	26.4
901220	31.7		
901221	28.2	21.4	23.8
901222	37.7	21.4	25.0
901223	30.3	21.0	24.4
901224	27.2	21.8	20.6
901225	41.2	19.5	29.2
901226	30.3	23.2	33.2
901227	41.2	23.2	37.7
901228	41.2	27.2	37.7
901229	41.2	21.8	29.2
901230	28.2	19.5	30.3
901231	33.2	22.2	37.7

Mean ionospheric absorption L' (dB) at oblique incidence (A3)
 $f = 270$ kHz
 1991

Date	SS	Night	SR
910101	41.2	18.3	35.2
910102	19.5	16.1	25.7
910103	25.0	21.8	26.4
910104	27.2	20.6	28.2
910105	25.7	21.4	21.8
910106	41.2	27.2	24.4
910107	23.2	21.8	30.3
910108	31.7	18.9	33.2
910109	31.7	23.8	30.3
910110	30.3	24.4	20.2
910111	33.2	19.9	30.3
910112	35.2	19.9	28.2
910113	27.2	23.8	35.2
910114	41.2	23.8	29.2
910115	35.2	21.0	28.2
910116	41.2	30.3	35.2
910117	47.2	31.7	47.2
910118	47.2	37.7	35.2
910119	41.2	22.2	31.7
910120	41.2	26.4	35.2
910121	41.2	27.2	33.2
910122	41.2	28.2	33.2
910123	47.2	24.4	35.2
910124	41.2	21.4	37.7
910125	26.4	18.1	23.8
910126	26.4	21.4	23.2
910127	41.2	18.6	26.4
910128	29.2	19.5	25.0
910129	29.2	25.0	20.2
910130	29.2	17.6	23.2
910131	30.3	21.8	20.2
910201	25.0	22.2	27.2
910202	37.7	21.4	25.7
910203	30.3	25.0	28.2
910204	47.2	27.2	41.2
910205	35.2	22.2	25.0
910206	41.2	21.4	27.2
910207	29.2	18.9	27.2
910208	41.2	19.2	20.6

Date	SS	Night	SR
910209	33.2	21.0	22.2
910210	37.7	21.0	28.2
910211	27.2	18.9	23.2
910212	18.1	20.6	21.0
910213			
910214	23.2	19.9	20.6
910215			
910216	26.4	22.7	26.4
910217	30.3	20.6	29.2
910218	23.8	21.4	33.2
910219	27.2	19.2	24.4
910220	23.8	22.7	30.3
910221	31.7	19.2	22.7
910222	25.0	17.8	26.4
910223	26.4	19.2	28.2
910224	30.3	17.1	21.8
910225	28.2	23.8	27.2
910226	37.7	26.4	26.4
910227	20.6	16.1	20.6
910228	25.7	19.5	21.4
910301	35.2	16.1	24.4
910302	26.4	25.7	20.6
910303	25.7	19.9	28.2
910304	37.7	23.2	21.0
910305	41.2	21.0	19.2
910306	31.7	16.7	20.2
910307	37.7	18.1	22.7
910308	37.7	19.2	22.2
910309	27.2	23.8	22.7
910310			
910311	31.7	19.9	19.5
910312	25.0	18.6	
910313	30.3	18.1	23.8
910314	29.2	19.9	21.0
910315	37.7	16.1	23.2
910316	25.0	21.0	24.4
910317	30.3	18.1	26.4
910318	25.0	22.7	22.7
910319	31.7	19.2	18.9
910320	28.2	19.9	27.2
910321	26.4	19.5	24.4
910322	30.3	21.4	25.0
910323	29.2	19.5	22.7

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
910324	35.2	19.5	23.2
910325	33.2	23.8	35.2
910326	41.2	25.0	27.2
910327	41.2	18.6	29.2
910328	41.2	17.6	30.3
910329	33.2	17.6	22.7
910330	31.7	22.2	19.2
910331	37.7	17.6	25.7
910401	24.4	19.2	21.8
910402	30.3	18.9	25.7
910403	47.2	21.8	23.8
910404	27.2	22.2	24.4
910405	27.2	19.5	25.7
910406	28.2	18.3	27.2
910407	28.2	19.2	25.0
910408	33.2	19.2	22.2
910409	31.7	17.1	19.9
910410	25.0	21.0	25.0
910411	23.2	22.7	25.0
910412	29.2	23.2	22.2
910413	27.2	28.2	27.2
910414	33.2	21.8	25.7
910415	27.2	22.2	23.8
910416	24.4	23.2	30.3
910417	33.2	19.5	22.7
910418	29.2	19.5	19.9
910419	18.9	19.5	(15.9)
910420	28.2	20.6	21.0
910421	26.4	19.2	19.5
910422	21.0	16.7	21.8
910423			
910424	20.6	19.5	19.9
910425	25.7	14.8	20.6
910426	24.4	17.6	24.4
910427	35.2	18.3	21.4
910428	31.7	23.8	
910429	31.7	24.4	
910430	33.2	19.5	24.4
910501	22.2	24.4	29.2
910502	35.2	25.7	28.2
910503	25.0	18.9	24.4
910504	21.8	25.7	25.0
910505	23.8	24.4	28.2

Date	SS	Night	SR
910506	33.2	19.2	28.2
910507	22.7	23.2	29.2
910508	27.2	29.2	30.3
910509	37.7	30.3	22.7
910510	33.2	22.7	30.3
910511	27.2	18.1	33.2
910512	31.7	18.9	30.3
910513	31.7	24.4	23.8
910514	33.2	19.5	22.7
910515	33.2	20.2	23.2
910516	33.2	21.4	28.2
910517	28.2	27.2	26.4
910518	33.2	20.2	33.2
910519	30.3	28.2	28.2
910520			
910521	33.2	26.4	25.0
910522	35.2	21.8	25.0
910523	29.2	23.2	25.0
910524	28.2	23.2	35.2
910525	25.0	25.0	31.7
910526	35.2	26.4	23.2
910527	25.0	18.9	26.4
910528	25.0	29.2	25.7
910529	30.3	19.5	23.2
910530	31.7	21.8	23.2
910531	30.3	26.4	23.8
910601	41.2	23.8	30.3
910602			
910603			
910604			
910605	30.3	23.2	31.7
910606	28.2	22.7	25.0
910607	25.7	21.4	23.2
910608	27.2	22.7	33.2
910609	28.2	23.2	24.4
910610	24.4	25.7	37.7
910611	29.2	28.2	29.2
910612	33.2	23.2	23.8
910613	31.7		
910614			
910615			
910616			
910617	29.2	29.2	33.2

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
910618	29.2	28.2	26.4
910619			
910620	23.8		
910621			
910622	22.2	25.0	27.2
910623	25.0	25.0	25.7
910624		(22.2)	29.2
910625	33.2	29.2	25.0
910626	22.7	25.7	29.2
910627	26.4	25.0	27.2
910628	26.4		
910629	23.8	21.4	33.2
910630	28.2	26.4	29.2
910701	30.3	25.0	29.2
910702	23.8	23.8	30.3
910703	30.3	28.2	25.7
910704		31.7	33.2
910705	33.2	25.7	25.0
910706	37.7	25.7	37.7
910707	27.2	23.8	31.7
910708	31.7	30.3	29.2
910709			28.2
910710	33.2	23.8	25.7
910711	25.7	23.8	25.7
910712	37.7	31.7	30.3
910713	27.2	31.7	30.3
910714	33.2	27.2	33.2
910715	35.2	25.0	24.4
910716	27.2	24.4	27.2
910717	33.2	28.2	
910718	22.7	23.8	28.2
910719	31.7	24.4	35.2
910720	31.7	20.2	28.2
910721	26.4	23.8	25.0
910722	26.4	18.3	14.4
910723	30.3	30.3	33.2
910724	27.2	28.2	28.2
910725	41.2	28.2	35.2
910726	27.2	23.8	29.2
910727	31.7	23.8	35.2
910728	31.7	23.2	24.4
910729	31.7	27.2	25.0
910730	26.4	20.2	27.2

Date	SS	Night	SR
910731	29.2	18.9	31.7
910801	37.7	26.4	35.2
910802	31.7	27.2	33.2
910803	33.2	23.2	35.2
910804	25.7	23.8	28.2
910805	26.4	23.2	27.2
910806	33.2	23.8	30.3
910807	21.4	19.9	22.2
910808	30.3	21.4	31.7
910809			
910810	28.2	18.9	30.3
910811	26.4	23.8	25.0
910812	31.7	23.8	33.2
910813	30.3	25.0	25.0
910814	19.5	21.8	29.2
910815	26.4	26.4	28.2
910816	30.3	23.2	31.7
910817	30.3	25.7	37.7
910818	30.3	25.7	33.2
910819	41.2	26.4	26.4
910820	31.7	23.2	28.2
910821	21.4	24.4	35.2
910822	28.2	23.8	31.7
910823	33.2	25.7	29.2
910824	26.4	22.7	27.2
910825	28.2	17.6	28.2
910826	28.2	21.0	31.7
910827	25.0	25.7	41.2
910828	25.7	21.0	31.7
910829	28.2	23.8	37.7
910830	30.3	25.7	29.2
910831	21.4	23.2	26.4
910901	26.4	23.8	35.2
910902	29.2	22.2	27.2
910903	33.2	21.4	35.2
910904	35.2	23.8	41.2
910905	30.3	19.5	29.2
910906	24.4	21.4	26.4
910907	23.2	21.4	28.2
910908	27.2	23.8	
910909			
910910			
910911			

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
910912			
910913			
910914			
910915			
910916			
910917			
910918			
910919	24.4	19.5	27.2
910920			
910921			
910922			
910923			
910924	21.8	20.6	
910925	21.8	23.8	30.3
910926	24.4	19.5	37.7
910927	30.3	23.2	27.2
910928	27.2	22.2	23.8
910929	28.2	19.5	26.4
910930	23.8	21.0	24.4
911001	31.7	19.5	25.0
911002	26.4	27.2	24.4
911003	28.2	20.2	27.2
911004	25.0	17.8	21.8
911005	23.2	21.4	24.4
911006	23.2	19.2	21.8
911007	27.2	20.2	19.9
911008	18.1	24.4	
911009	19.9	19.9	24.4
911010	23.8	21.0	24.4
911011	21.0	18.6	29.2
911012	27.2	21.8	21.0
911013	22.2	17.3	22.2
911014	25.0	17.6	22.7
911015	21.4	18.3	23.2
911016	27.2	17.8	18.1
911017	28.2	16.9	25.7
911018			
911019	21.8	25.0	22.2
911020	29.2	18.6	21.8
911021	21.0	21.0	28.2
911022	27.2	17.6	25.0
911023	16.9	13.3	28.2
911024	28.2	18.3	20.6

Date	SS	Night	SR
911025	19.5	21.4	29.2
911026	19.9	18.9	25.0
911027	19.9	23.2	23.2
911028	27.2	23.8	29.2
911029	19.9	24.4	23.2
911030	29.2	(21.8)	
911031	20.6	19.5	21.8
911101	21.4	27.2	20.2
911102	21.0	21.8	27.2
911103	21.4	18.1	21.8
911104	26.4	19.2	29.2
911105	27.2		
911106			
911107	22.7	18.9	29.2
911108	21.4	19.9	29.2
911109	23.8	23.8	33.2
911110	27.2	21.4	26.4
911111	21.8	25.7	37.7
911112	21.0	21.4	37.7
911113	33.2	20.6	33.2
911114	23.2	23.8	25.7
911115	26.4	21.4	31.7
911116			
911117		(30.3)	37.7
911118	35.2	24.4	41.2
911119	25.7	33.2	
911120	37.7	25.0	41.2
911121			
911122	35.2	28.2	37.7
911123	41.2	22.7	31.7
911124	35.2	21.4	26.4
911125	24.4	20.2	26.4
911126	30.3	19.5	30.3
911127	41.2	21.4	31.7
911128	31.7	19.5	
911129	25.7	18.9	31.7
911130	31.7	22.7	33.2
911201	28.2	19.5	24.4
911202	31.7	19.5	25.0
911203	35.2	21.8	27.2
911204	30.3	22.7	33.2
911205	37.7	21.8	33.2
911206	37.7	18.9	31.7

MEAN IONOSPHERIC ABSORPTION

Date	SS	Night	SR
911207	35.2	22.2	
911208	33.2	22.7	25.0
911209	35.2	19.5	37.7
911210	35.2	33.2	41.2
911211	31.7	31.7	41.2
911212	41.2	30.3	
911213	41.2	30.3	26.4
911214	41.2	21.4	
911215	31.7	19.5	
911216	28.2	23.2	
911217	26.4	23.8	24.4
911218	25.0	17.8	
911219	25.7	23.2	
911220			23.2
911221		25.0	31.7
911222	31.7	23.8	41.2
911223	37.7	23.2	
911224	41.2	23.8	
911225	35.2	26.4	35.2
911226	33.2	26.4	
911227	28.2	21.8	
911228	28.2	25.0	
911229	25.0	25.0	
911230	31.7	22.7	24.4
911231	19.5	23.8	26.4

MTA Könyvtára
 Periodika 19. 35/2663