

MAREES TERRESTRES

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N° 38

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Association Internationale de Géodésie

Commission Permanente des Marées Terrestres.

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Observatoire Royal de Belgique

3, Avenue Circulaire

Bruxelles, 18

Nouvelles.

Meeting restreint à Prague

Un meeting restreint s'est tenu à Prague le 9 octobre 1964 en marge du Symposium sur la Figure de la Terre.

Il réunissait MM. Lecolazet, Bonatz, Melchior, Picha, Skalsky et Venedikov qui ont discuté le problème de la sensibilité des appareils de mesure.

MM. Lecolazet et Melchior ont visité le 8 octobre la station de Příbram (Brézové Hory) qui est la plus profonde du monde (- 1300 mètres).

Voyage du Directeur du Centre International en Allemagne.

Le Directeur du Centre International, Prof. Melchior, a visité en septembre 1964, les Instituts de Potsdam et de Freiberg Sachsen ainsi que la station de Berggieshübel en R.D. d'Allemagne. Il a visité également l'Institut für Angewandte Geodäsie à Frankfurt am Main et la firme Askania en R.F. d'Allemagne.

Une nouvelle station en Bulgarie

La station de Botev située à 50 km au Nord de Sofia est entrée en activité.

Elle a été équipée par le Dr. Venedikov d'une paire de pendules horizontaux en quartz, type Verbaandert - Melchior.

Elle est située à une profondeur de 80 mètres.

PROFESSOR DR. EIICHI NISHIMURA

Professor Eiichi Nishimura passed away suddenly in Kyoto on the early morning of March 19, 1964 at the age of 57. After only a few days of sickness he died without suffering and he has gone to a better world. This is not only a sad event, deplored by all who knew him even slightly, it also represents a great and permanent loss to science.

Professor Eiichi Nishimura was born at Kyoto, Japan, in 1907. He grew up as only son of rich parents. After graduation from high school, he entered the Geophysical Institute of Kyoto University, where learned various geophysical techniques and the spirit of observations under the expert guidance of Professor Toshi Shida, who is well known by Shida's number. Shortly after completing the graduate course at Kyoto University, Nishimura took a position at the Aso Volcanological Observatory, in an out-of-the way place, just established by Professor Shida. At Aso all of Nishimura's time was occupied with studying and with the observation of both volcanic tremors and earth tides with various instruments. He reasoned that it is necessary to select a station as far away as possible from the sea in order to obtain an accurate value of the diminishing factor. In the summer of 1941, he travelled to Barim in the northwestern part of Manchuria, where he made his famous observations of earth tides with tiltmeters. In 1942, he received his doctorate, with the thesis "On Earth Tides". In 1951, he was appointed as a professor of Geophysics in the Geophysical Institute of Kyoto University.

He participated in the Second International Symposium on Earth Tides that was held at Munich in 1958. This was his first travel outside Japan. He also travelled to the United States, Canada and South America during the period February to May 1962. On his way home to Japan by way of Europe, he stopped at Leipzig, where he attended the First International Symposium on Recent Crustal Movement.

After returning to Japan, he made plans for the simultaneous observation of many geophysical phenomena in cooperation with several South American countries. In May 1963 he entered the hospital for an operation on his liver. After three months in the hospital, he had recovered his health. He continued both academic and official business. It is to be feared that this uninterrupted work fatigued him. He was unable to resist a sudden attack of peritonitis a few days before his death.

Professor Nishimura was always working in vigorous and effective research. His interesting ranged over the whole field of geophysics. He always remained a geophysicist in the general sense, retaining the capacity to contribute original work in any of its branches. He wrote about one hundred and fifty papers in various fields of geophysics during his life. Among them, the most important was the paper written under the title "On Earth Tides". In this paper, which was written originally in Japanese, he collected the valuable results of his observations. Shortly after, he wrote a summary of this paper under the same title in English, which was published in the Transactions of the American Geophysical Unions in 1950. Not only this paper but also his other papers were of high quality.

If he had been spared, we might have looked forward to many more years of equally valuable contributions from his desk.

To carry out a complete and precise observation of earth crustal movements, including both periodic and non-periodic changes, was one of his aims. Because of his lifelong habit of prompt action, he established many Observatories in the western part of Japan. In those observatories observations are being continued at the present time. He conducted many programs and carried far the greater share of the actual work. None of these large undertakings would have been possible without Nishimura's unfailing energy.

Recently, Professor Nishimura had shown keen interest in the field of earthquake prediction. He had planned to open the Earthquake Prediction Conference in cooperation with American seismologists. His long-cherished desire was fulfilled and the Conference was held on March of this year in both Tokyo and Kyoto. Although he had eagerly desired to participate in the Conference, he could not go to Tokyo. Persons who joined the Conference moved from Tokyo to Kyoto on March 18. Professor Nishimura passed away early in the morning of the day the Conference was to be held in Kyoto.

He was honored by membership and official position in many scientific organisations : he was the former director of the Disaster Prevention Research Institute of Kyoto University ; he was the director of the Aso Volcanological Observatory of Kyoto University, where he spent his younger researching days ; he was the director of the Abuyama Seismological Observatory and he was the director of the Kamigamo Observatory, where the Asiatic Centre of Earth Tides has been established since 1958.

He was not only a great scholar but also an excellent sportsman. In high school, he was the champion of the javelin throw. His record, as a Japanese student, was not surpassed for more than thirty years. He liked baseball. He was the president of the Sport Association of Kyoto University.

Everyone who knew Professor Nishimura loved and respected him. He is survived by his devoted wife, three sons and two daughters. There are many grandchildren, for whom Professor Nishimura often expressed his love.

It is most painful for me thus to report the sudden loss of one whom he will always remember as a dear teacher. Professor Nishimura lives on in his work and in the hearts of all who knew him eternally.

Nakagawa

Fifth International Symposium on Earth Tides.
Brussels, June 1, 1964.

CATALOGUE DES DONNEES D'OBSERVATIONS DE MAREES TERRESTRES FIGURANT AU
1 OCTOBRE 1964 DANS LA BIBLIOTHEQUE DU CENTRE INTERNATIONAL DES
MAREES TERRESTRES

Le catalogue est établi sur cartes perforées

Le dessin de carte est le suivant :

- 1) Numéro de la station.
- 2) Sigle et numéro de l'instrument utilisé
- 3) Nom de la station.
- 4) Année des observations.
- 5) Premier intervalle de l'année couvert par les observations
par exemple 1507 1209 signifie que l'on possède des mesures depuis le 15 juillet jusqu'au 12 septembre.
- 6) Deuxième intervalle de l'année couvert par les observations
- 7) Troisième intervalle de l'année couvert par les observations
- 8) Quatrième intervalle de l'année couvert par les observations
- 9) Cinquième intervalle de l'année couvert par les observations.

Si les observations couvrent plus de cinq intervalles discontinus, il y aura une seconde carte pour l'année en cause.

Il y a au minimum une carte par année.

Exemple :

0320 ASK 110 BOROWIEC 1962 3003 3005 3008 3009 0410 0212
signifie que l'on possède pour la station 0320 : Borowiec des mesures faites avec le gravimètre
Askania 110 du 30 mars au 30 mai 1962
du 30 août au 30 septembre 1962
du 4 octobre au 2 décembre 1962.

Pour la classification des stations et les sigles instrumentaux voir BIM N° 27, page 609.

101 LCR	BIDSTON 1	1958 1507 1209				
101 LCR	BIDSTON 2	1958 1507 1209				
100 FR 54	UNST	1954 1406 1407				
103 LCR	WINSFORD 1	1958 0107 1308				
103 LCR	WINSFORD 2	1958 0107 1308				
122 NAL138	STRASBOURG	1957 0108 2911				
122 NAL138	STRASBOURG	1958 1601 3112				
122 NAL138	STRASBOURG	1959 0101 3112				
122 NAL138	STRASBOURG	1960 0101 0805				
122 NAL167	STRASBOURG	1957 0111 3112				
122 NAL167	STRASBOURG	1958 0101 2201				
144 ASK160	UCCLE	1960 0204 0605	1005 3112			
144 ASK160	UCCLE	1961 0101 2202	1803 3112			
144 ASK160	UCCLE	1962 0101 0505				
145 ASK145	UCCLE	1958 0107 3112				
145 ASK145	UCCLE	1959 0101 0103	0505 3112			
145 ASK145	UCCLE	1960 0101 1602	2402 2808	1009 3112		
145 ASK145	UCCLE	1961 0101 0303	1504 0906			
145 ASK145	UCCLE	1962 1504 1006	1008 0910	1411 2712		
145 ASK145	UCCLE	1963 1301 1402	1503 0605	1106 1011	1411 0412	0612 3112
145 ASK145	UCCLE	1964 0101 0702	2002 0703	1003 2505		
146 ASK 98	VEDRIN	1958 1810 3112				
146 ASK 98	VEDRIN	1959 0101 1301	2701 3103			
147 ASK175	BATTICE	1963 1204 0410				
149 ASK143	DOURBES	1964 1208 1909				
159 ASK160	LUXEMBOURG	1963 1504 2608	0109 0411	2311 3112		
159 ASK160	LUXEMBOURG	1964 0101 2307				
165	BERCHTESGADEN	1957 2010 2211				
176 ASK137	POTSDAM	1959 0301 1703	2203 2312			
176 ASK137	POTSDAM	1960 1503 2204	2804 3110			
176 ASK137	POTSDAM	1961 2405 1407	1908 0210	0112 3112		
176 ASK137	POTSDAM	1962 0101 2401	0503 2310			
176 ASK162	POTSDAM	1963 1801 1802				
169 ASK127	POTSDAM	1963 1801 1802				
170 ASK127	FREIBERG	1963 3006 0108				
171 ASK127	BAD SALZUNGEN	1963 0808 2809				
173 ASK116	BONN	1964 2903 3004				
172 ASK127	KIESELBACH	1963 1510 2511				
182 ASK 97	GENOVA	1959 2503 1007	1507 2712			
182 ASK 97	GENOVA	1960 1410 2612				
182 ASK 97	GENOVA	1961 0101 3003	0104 3112			
182 ASK 97	GENOVA	1962 0101 2603	0604 3112			
182 ASK 97	GENOVA	1963 0101 0201				
185 ASK108	COSTOZZA	1962 0709 0810	1210 0812			
187 ASK108	TRIESTE	1959 3006 3112				
187 ASK108	TRIESTE	1960 0101 1701	2302 1007			
188 LCR	TRIESTE 1	1958 1905 2506				
188 LCR	TRIESTE 2	1958 1905 2506				
189 ASK141	RESINA	1959 2205 3112				
189 ASK141	RESINA	1960 0101 3105	0107 0511	3112 3112		
189 ASK141	RESINA	1961 0101 2704				
194 ASK120	PALERMO	1963 2806 2609				
240 ASK168	STOCKHOLM	1962 0103 1505				
240 ASK168	STOCKHOLM	1963 0804 1605	0706 2306	2706 3110		
320 ASK110	BOROWIEC	1960 2103 2104				
320 ASK110	BOROWIEC	1962 3003 3005	3008 3009	0410 0212		
320 ASK110	BOROWIEC	1963 1101 0803				
340 HE 66	TIHANY	1957 3006 0208	2909 0111	3112 3112		
340 HE 66	TIHANY	1958 3003 0205	2906 0108	3009 0111	3112 3112	
340 HE 66	TIHANY	1959 0101 1202	0104 0105	0107 0208	0110 0211	
340 HE 66	TIHANY	1960 0101 0202	0104 0305			
340 HE 40	TIHANY	1958 0101 0102				

360	ASK121	SOFIA	1961	0905	0704		
400	ASK124	POULKOVO	1958	3103	2705	3105	2007
400	ASK135	POULKOVO	1958	0905	1307	1709	1810
401	ASK124	KRASNAYAPAKHRA	1957	2412	3112		
401	ASK124	KRASNAYAPAKHRA	1958	0101	2301		
401	ASK126	KRASNAYAPAKHRA	1958	2005	1906		
401	ASK134	KRASNAYAPAKHRA	1958	2005	1906	2306	0108
401	ASK135	KRASNAYAPAKHRA	1959	0501	0402		
462	ASK126	ALMA ATA	1958	1911	1912		
463	ASK134	ALMA ATA	1958	1710	1611	1911	1912
463	ASK134	ALMA ATA	1959	1004	1005		
502	LCR	LWIRO 1	1958	0603	0704		
502	LCR	LWIRO 2	1958	0603	0704		
503	LCR	BUNIA 1	1958	0103	0404		
601	ASK119	TEHERAN	1958	0901	0803	0309	0210
601	ASK119	TEHERAN	1962	0101	0212		
601	ASK119	TEHERAN	1963	0701	3011		
602	LCR	NEW DELHI 1	1958	1301	1402		
602	LCR	NEW DELHI 2	1958	1301	2202		
604	LCR	SAIGON 1	1957	2311	3112		
604	LCR	SAIGON 1	1958	0101	0101		
604	LCR	SAIGON 2	1957	2311	3112		
604	LCR	SAIGON 2	1958	0101	0101		
700	ASK111	NAZE	1958	0104	0305		
701	ASK111	ASO	1959	1904	2105		
702	ASK111	TOTTORI	1959	0802	1203		
703	ASK111	SHIONOMISAKI	1958	1901	2002		
704	ASK111	KYOTO	1957	2906	3107		
704	ASK111	KYOTO	1958	1206	1407		
704	ASK111	KYOTO	1959	0908	3112		
704	ASK111	KYOTO	1960	0101	1608		
705	ASK111	MATSUSHIRO	1957	2806	2709		
706	ASK111	OMAEZAKI	1957	0910	1011		
707	ASK111	KANOZAN	1958	0105	2707	3108	0110 3110 0212
707	ASK105	KANOZAN	1958	0111	3112		
708	ASK105	CHIBA	1957	0107	3112		
708	ASK105	CHIBA	1958	0101	3103		
709	ASK111	MIZUSAWA	1958	1609	1810		
710	ASK111	NEKURO	1958	0208	0309		
781	LCR	WAKE 1	1957	2707	0409		
781	LCR	WAKE 2	1957	2707	0509		
780	LCR	BAGUIO	1957	1408	3110		
782	LCR	HONOLULU 1	1956	1410	2211		
782	LCR	HONOLULU 2	1956	1410	2211		
800	HE 30	OTTAWA	1957	0108	2209	2210	1811
800	HE 30	OTTAWA	1958	0301	0102	2705	0208 0608 3009
801	NA 85	RESOLUTE	1957	0811	3112		
801	NA 85	RESOLUTE	1958	0101	1901		
802	NA 85	MEANOOK	1957	2704	2505		
802	NA 85	MEANOOK	1958	2008	2310	0911	3112
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821	LCR	GLENDORA 2	1957	2805	0707		
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822	LCR 1	AUSTIN	1961	2802	0304	2706	3107
822	LCR 1	AUSTIN	1962	2006	2407		
823	LCR	BERMUDA 1	1957	2910	1712		
823	LCR	BERMUDA 2	1957	2910	1712		

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1102	TS	1	WINSFORD	1951	0101	0301	0601	1809	2710	2612		
1102	TS	1	WINSFORD	1952	1001	1103						
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1140	VM	9	SCLAIGNEAUX 1	1961	0101	1002	2702	3112				
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1140	VM	30	SCLAIGNEAUX 1	1962	2604	2308	3008	1510				
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1140	VM	13	SCLAIGNEAUX 1	1963	2504	1907						
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1143	VM	23	WARMIFONTAINE	1962	1308	3112						
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1143	VM	43	WARMIFONTAINE	1963	1810	2211						
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1163	T	S2	TIEFENORT	1958	0509	2311						
1163	T	S2	TIEFENORT	1959	0301	2202	1605	2909	0110	2311		
1163	T	S2	TIEFENORT	1960	0806	1508	2308	0310	0510	3112		
1163	T	S2	TIEFENORT	1961	0101	0603						
1163	T	S2	TIEFENORT	1962	2911	3112						
1163	T	S2	TIEFENORT	1963	0101	2901	2202	1803	0304	0508		
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1167			BERGGIESHUBEL	1959	2202	2603	2903	0805				
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1185	VM	17	COSTOZZA	1962	1408	1509	1809	3112				
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1192	VM	2	BARI	1961	2511	2012	2712	3112				
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1192	VM	2	BARI	1964	0901	2902						
1193	VM	36	BARI 2	1963	2911	3112						
1193	VM	36	BARI 2	1964	0101	2703	2004	3107				
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1			HEIDELBERG	1901	0907	1510						
1458	OS4562		KONDARA	1959	1307	3009						
1463	OS	65	ALMA ATA	1959	0111	3112						

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2102 TS	2	WINSFORD	1951	0502	1809	0410	0311	0812	3112	
2102 TS	2	WINSFORD	1952	0101	0801					
2140 VM	1	SCLAIGNEAUX 1	1960	3003	1205	1805	1606	2906	2209	2809 3112
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2142 VM	11	WARMIFONTAINE	1962	0101	0701	2403	0307			
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2148 LG		CANNE	1963	1506	2507					
2148 LG		CANNE	1964	0301	0704					
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2150 VM	28	DOURBES 2	1964	0101	2403					
2151 VM	55	SCLAIGNEAUX 3	1963	1909	3112					
2151 VM	55	SCLAIGNEAUX 3	1964	0101	2101	2401	2904	0606	3007	
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2163 T	S1	TIEFENORT 2	1960	0806	1508	2308	3112			
2163 T	S1	TIEFENORT 2	1961	0101	0603					
2163 T	S1	TIEFENORT 2	1962	2911	3112					
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2164 LT	L1	TIEFENORT 1	1958	0509	0810	1110	1011			
2164 LT	L1	TIEFENORT 1	1959	1104	1205	1605	3107	0408	3009	0110 2511
2164 LT	L1	TIEFENORT 1	1960	0806	1508					
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2164 LT	L1	TIEFENORT 1	1962	0101	2501					
2165		BERCHTFSGADEN	1958	2802	0305	1405	1809			
2165		BERCHTFSGADEN	1959	2901	0103	0404	0106	0207	0210	
2165		BERCHTFSGADEN	1960	3004	3105	0206	3112			
2166	L0	TIEFENORT 3	1958	0509	0610					
2167		BERGGIESHUBEL	1959	2202	2603	2903	0805			
2167		BERGGIESHUBEL	1962	0501	0703					
2182 VM	5	GENOVA	1960	2212	3112					
2182 VM	5	GENOVA	1961	0101	1902	2502	3103			
2182 VM	5	GENOVA	1962	0203	1710					
2185 VM	16	COSTOZZA	1962	0107	1409	1609	3112			
2185 VM	16	COSTOZZA	1963	0101	1001	1901	2802	1909	3112	
2185 VM	16	COSTOZZA	1964	0101	3101					
2191 VM	32	NICOLOSI	1962	1411	2412					
2191 VM	32	NICOLOSI	1963	1106	2207	2907	1609	2709	1312	1712 3112
2191 VM	32	NICOLOSI	1964	0101	1101	1301	2606			
2192 VM	3	BARI	1961	2712	3112					
2192 VM	3	BARI	1962	0101	1702	2004	3105	2107	1908	2408 2809
2192 VM	3	BARI	1964	0204	1805					
2193 VM	37	BARI 2	1964	0404	2107	2307	3107			
2200 VM	44	GRAZ	1963	2805	3006					
2241 VM	38	DANNEMORA	1963	1212	3112					
2241 VM	38	DANNEMORA	1964	0101	2803	0605	0109			
2		HEIDELBERG	1901	0907	1510					
2458 OS458		KONDARA	1959	0107	3107	0109	3009			
2463 OS	66	ALMA ATA	1959	0111	1912					

3148	BASECLES	1962	0805	2408				
3152	TURNHOUT	1955	1712	3112				
3152	TURNHOUT	1956	0101	0203				
3177	SONTRA	1954	1606	1107				
3850	CARLSBAD	1938	1203	1204				
3851	IOWA	1939	1403	1004				
4180	MONTEPONI	1957	2312	3112				
4180	MONTEPONI	1958	0101	2701	0302	0404	0904	2104 2804 3112
4180	MONTEPONI	1959	0101	2901	0302	2302	0503	3006
4180	MONTEPONI	1963	1012	3112				
4180	MONTEPONI	1964	0101	2902				
4824	FRANKLIN 1	1961	2309	2210				
4824	FRANKLIN 2	1961	0310	0211				
4167	BERGGIESHUBEL	1960	2802	0104	0405	1306		
5167	BERGGIESHUBEL	1960	2802	0104	0405	1306		
5180	MONTEPONI	1957	2312	3112				
5180	MONTEPONI	1958	0101	0404	0904	2104	0505	3112
5180	MONTEPONI	1959	0101	2901	0302	2906		
5180	MONTEPONI	1963	1112	3112				
5180	MONTEPONI	1964	0101	2902				

LE NOUVEAU SYSTEME DES CONSTANTES ASTRONOMIQUES

par

Paul Melchior

A l'Assemblée Générale tenue à Hambourg en août 1964, l'Union Astronomique Internationale a décidé d'adopter un nouveau système de constantes.

Les constantes intéressant les recherches théoriques et expérimentales sur les marées terrestres sont les suivantes :

Rayon équatorial de la Terre	6.378.160 mètres
Aplatissement de la Terre	1/298,25
Rapport de la masse de la Lune à celle de la Terre	1/81,30
Rapport de la masse du Soleil à celle de la Terre	332.958
Parallaxe solaire	8"79405
Parallaxe de la Lune	3422"451

Ceci donnera pour la constante de Doodson :

$$G = 26275 \text{ cm}^2 \text{ sec}^{-2}$$

soit une augmentation de 0,263 %, par rapport à la valeur 26206 adoptée jusqu'ici .

De même le rapport

$$\frac{S \sin^3 \pi_{\odot}}{M \sin^3 \pi_{\oplus}} = 0,45926$$

soit 0,247 % de moins que la valeur de Doodson. Les amplitudes des ondes solaires devraient être diminuées dans cette proportion.

Nous proposons que ces corrections soient introduites dans tous les calculs portant sur les observations qui seront faites à partir du 1 janvier 1965. D'une manière plus précise on pourrait convenir que tout intervalle à analyser qui porterait au moins partiellement sur l'année 1965 serait traité avec les nouvelles constantes.

Ceci permettra d'appliquer systématiquement et sans confusion possible de petites corrections nécessaires pour rendre les anciennes analyses comparables aux nouvelles

[1] W. FRICKE, D. BROUWER, J. KOVALEVSKY, A. A. MIKHAILOV, G. A. WILKINS
Report to the executive Committee of the Working Group on the system of Astronomical Constants
(U. A. I. Draft Reports Hamburg 1964, pp. XLIX - LIV)

[2] N. N. PARIISKY
Some Remarks concerning the calculation of Theoretical amplitudes of Tidal gravity Variations
(BIM 23 - pp. 466 - 479 - 1961)

ERRATUM

Erratum à l'article de G. Jobert : "Sur les filtres numériques utilisés dans l'analyse harmonique"
BIM n° 37 pp. 1260 - 1273.

- 1ère ligne 6ème colonne : - 31 791 (au lieu de - 3 179)
- 9ème ligne 3ème colonne : 0 (au lieu de - 1 445)
- 12ème ligne 5ème colonne : + 1 268 (au lieu de - 1 268).