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Gravity in Western Canada

BY

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GRAVITY IN WESTERN CANADA

INTRODUCTION

This publication contains the results of all gravity stations that have so far been established in Western Canada. The determinations were made with the standard half-seconds pendulum apparatus of the Observatory. At every station the pendulum case was set up either on a concrete basement floor or a concrete block specially erected for the purpose. Flexure was measured with an interferometer. At the thirteen stations whose numbers are given as 31 to 43 the rates of the chronometers were determined directly by telegraphic connection with the Observatory clock. The rates at all the remaining stations, with the exception of four, were obtained by comparison, by the method of coincidences by extinction, with a chronometer set to gain, in most cases, about one second in fifty seconds on the mean time wireless signals from Annapolis. At the end of the season of 1925 when Annapolis was not sending it became necessary for the four stations mentioned to make use of the signals from either Arlington or WQL. For the last three years it has been the practice for the pendulum observer to make his own time comparisons with a small receiving set that is built for the purpose by the Observatory.

The more important results of the work in this part of the country are summarized in the tables appearing throughout the report and are in part shown graphically on the two accompanying maps. Descriptions of the stations and tables giving information of a more or less detailed nature, and to which no particular reference is required, appear at the end of the publication. Similar information for those stations not appearing in the latter tables has been given in previous publications of the Observatory.

In certain cases the name and other information corresponding to a certain station number may be required. In order to satisfy this requirement the stations are listed in their numerical order in Table I. This table also gives the gravity anomaly, the observer and the year in which the station was established.

GRAVITY ANOMALIES

As the gravity anomalies (the differences between the observed and computed values) form a very important part of the results of a gravity investigation, the computation of theoretical values for each station becomes also a matter of considerable importance. The observed values are, of course, obtained from the pendulum observations. The computed values given in this publication are values which are obtained on the assumption of isostasy. Corrections have been made for the gravitational effect at each station of all the topography on the earth's surface, and the compensating effect due to diminished density beneath the continents and increased density under the oceans has also been taken into account. The compensation is assumed to be complete and distributed uniformly down to a depth of 113·7 kilometres. In making the computation a formula for gravity at sea-level is first assumed. In this case, Bowie's

formula, $\gamma_o = 978{\cdot}039\ (1 + {\cdot}005294 \sin^2 \phi - {\cdot}000007 \sin^2 2\phi)$, derived from over 200 stations in different parts of the world, has been taken. To change to the position of the station this is corrected for the diminished attraction due to increased distance from the centre of the earth and to this result there is finally applied the correction for topography and compensation to which reference has already been made. The results are given in Table II, in which the stations are separated into groups according to the provinces in which they are situated. The first five columns give the number, name, longitude, latitude and altitude of the station. The sixth column gives the value of g at sea-level (γ_o) for the latitude (ϕ) of the station. The corrections for altitude and for topography and compensation are given in the next two columns. Columns 9 and 10 contain the computed and observed values. The gravity anomalies are given in the last column, and they are obtained by subtracting the computed values from the observed values. A positive anomaly indicates an excess of gravity and is obtained when the observed value is greater than the computed value. An anomaly of 001 dyne (or cm. per sec. per sec.), about one-millionth part of gravity, is equivalent to the effect that would be produced at the station by a layer of rock 30 feet thick and of density 2·7.

It is obvious that a gravity anomaly may be due to one cause or a combination of a number of causes. To produce an anomaly of any magnitude, however, the number of the more important causes is limited. With sufficient computation it may in certain cases be possible to form a fairly definite estimate of the chief cause or causes of the anomaly.

One of the possible causes of a gravity anomaly is the existence of abnormal rock densities in the vicinity of the station. In computing the effect of topography for the station the normal rock density is taken as 2·67. If the density of the rock in the vicinity of the station is different from this and if the excess or deficiency of material is uncompensated, provided there are no other compensating disturbances, a gravity anomaly is bound to result. If the excess or deficiency along with the original mass is completely compensated it turns out, rather paradoxically, that an anomaly will be produced if the horizontal extent of the abnormal density is not too great. This is a fact that was first pointed out by Bowie. A few figures illustrating this may be of some interest. Suppose at Elbow (No. 80) where gravity is practically normal, we were to replace the existing rock, whose density is taken for the present to be 2·67, by heavier rock of density 2·94 (10 per cent greater) extending to a depth of 10,000 feet. If the deposit extended out in every direction to a distance of one mile from the station the anomaly would be ·012. The maximum anomaly ·026 would be reached for a distance of five miles. For 100 miles the anomaly would decrease to ·010 and for 750 miles would be only ·002. If the excess of matter were uncompensated the anomaly for 5 miles would be ·028, for 100 miles ·034 and for 750 miles ·037. If in addition part or all of the original mass were uncompensated the anomalies would be still larger.

It is characteristic of large anomalies that they do not persist over large areas. This is well illustrated by the variation of the anomalies over the Puget Sound district in the United States, to which attention has been directed by Bowie and others. Considerable interest has been added to this region by the recent work on Vancouver island. In a distance of 20 miles across the strait of Juan de Fuca there is a change

from a negative anomaly of −·008 at Port Angeles to the largest known anomaly in Canada, +·054 at Victoria. This is also one of the largest positive anomalies yet discovered on the whole continent. Inside a distance of approximately 75 miles we go from the largest negative anomaly on the continent at Seattle to the large positive anomaly at Victoria. The chief cause of the large anomalies in the United States has been attributed by Bowie to local densities. It is certain that this is at least partly the cause of the anomaly at Victoria. A determination of the densities of several samples of the rock exposure (Gonzales hill) on which the station is situated, showed that none of them had a density less than 2·75 while the average was 2·81. This is considerably in excess of the assumed normal density of 2·67 and no doubt there is still heavier rock near the station, as the geological reports of the Victoria district give analyses of the rock in this vicinity all with densities considerably higher than those already mentioned. At Ocean Falls again what seemed to be a fairly representative sample of rock in the vicinity of the station had also a density of 2·81. The anomaly here is small but positive. In Masset inlet a sample taken from an exposure which seemed fairly typical, when weighed, was found to have a density of 2·67, the normal value. The anomaly at Masset is slightly negative. At Phoenix we have a fairly large positive anomaly. The gravity station is located on a copper mine which is underlain with grano-diorite, the average density of which is also in excess of the normal value 2·67.

The collecting of rocks in the vicinity of the stations was begun only towards the end of the field season of 1926. The limited number of densities that have been mentioned represent the values for all rock samples that have so far been collected. When time permits for further computation and investigation it is proposed to give further attention to the consideration of the individual anomalies. While it is certain that anomalies may not always be due to abnormal densities, there is sufficient evidence to show that for some of our Canadian stations there is a relation between the anomalies and the local densities. The value of the observations in revealing abnormal densities that may not otherwise be apparent is at least worthy of consideration.

RELATION BETWEEN THE ANOMALIES AND THE GEOLOGICAL FORMATIONS

Connected, quite possibly, with the relations that have just been mentioned are the relations that apparently exist between the anomalies and certain of the geological formations. In the accompanying table (Table III), giving the anomalies, the stations are grouped according to the geological formations upon which they are situated. The classification has been made from the geological map of Canada, dated 1924. A geological map, with the stations and their anomalies marked upon it, accompanies this report.

An examination of the summary of Table III indicates quite definite relations between the anomalies and both the Mesozoic and the Tertiary. Nearly all the Mesozoic stations have positive anomalies, while the Tertiary stations with the exception of Estevan are all negative. In the case of the igneous of the Mesozoic a plausible explanation of the anomalies is the existence in this formation of heavy igneous rocks. If the anomalies of the Cretaceous are due to abnormal densities they must lie beneath the sedimentary formation as the rocks of the formation are supposed to be lighter than

normal. In this case the contour lines on the gravity map would give some idea of the shape of the underlying formation. The anomalies on the Tertiary could be explained by the lower densities which the rocks of this formation are known to have.

The relations between gravity anomalies and the two geological formations—the Cretaceous and the Tertiary—have already been found by Bowie to exist for gravity stations in the United States.

There are no very definite relations between the other formations and their anomalies. It is quite possible that as the survey is extended into other parts of the country relations between the results and some of the other formations may be found.

ISOSTASY IN WESTERN CANADA

Judging from the anomalies it may be inferred that the greater portion, if not all, of that part of Western Canada covered by the observations, is in isostatic equilibrium or in a condition closely approximating it. Stations with large anomalies are not very numerous and, as already indicated, it is possible that these may be explained at least in part, if not wholly, by conditions which are local and are not a violation of isostasy. The anomalies on the southern part of Vancouver island may possibly be explained by the local densities. For example the anomaly at Victoria could be entirely accounted for by a compensated block of density 2·94, and 5 miles in radius, extending to a depth of 25,000 feet. There may be some doubt about Saskatchewan and the southern part of Manitoba. This area of comparatively large positive anomalies is not confined to Canada but runs across the border into the United States and reaches still larger values in the western part of South Dakota. If the anomalies in this region cannot be explained by the density and form of the underlying formation they may possibly indicate a lack of compensation.

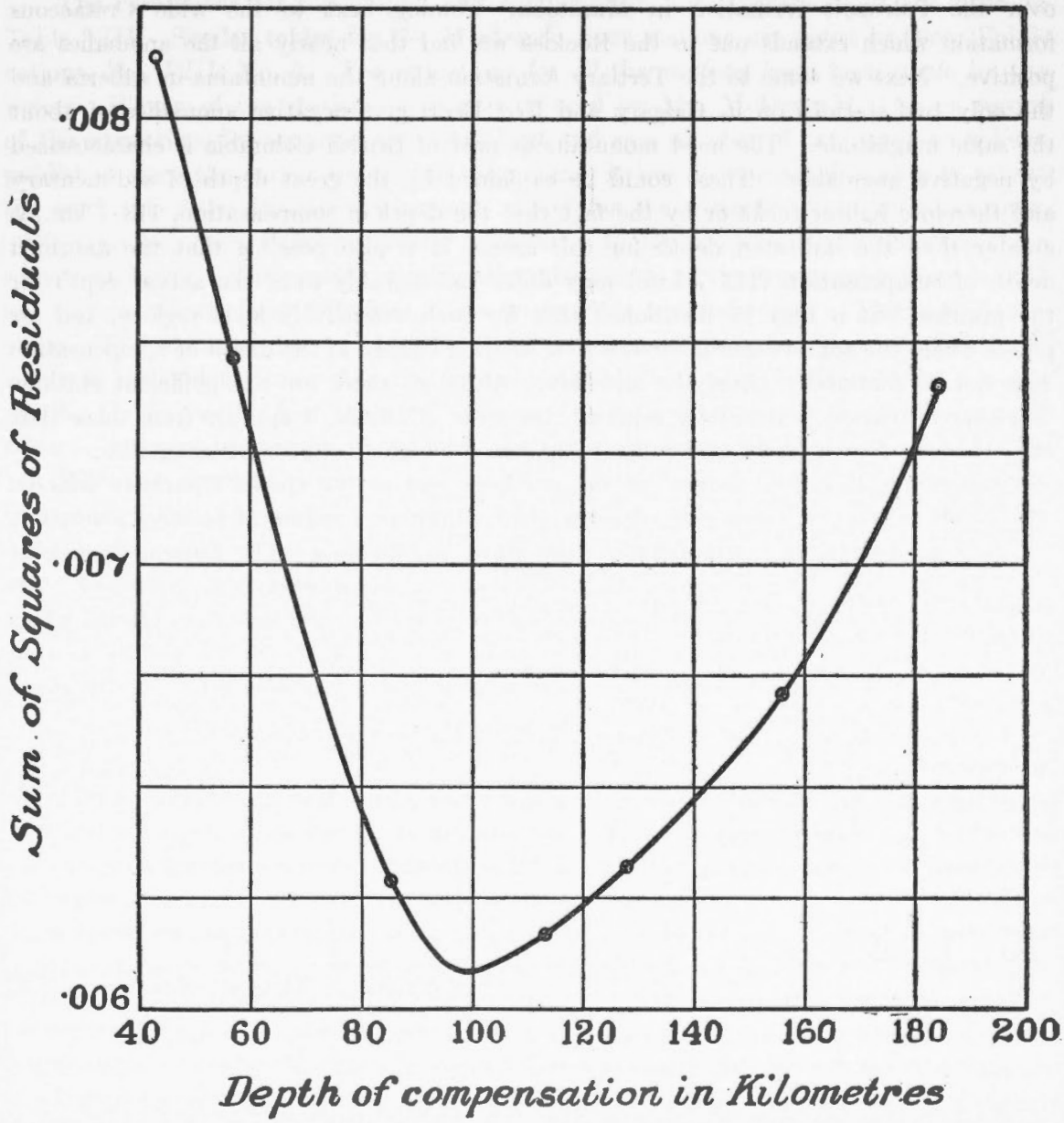
It is also certain that there is no other known method of computing gravity, which does not involve the assumption of isostasy, that will give values of gravity that agree with the actual observed results. For the purpose of illustrating this fact anomalies obtained by different methods of computing gravity are given in Table IV for 20 stations in the mountainous part of the country. The Free Air and Bouguer methods are two old and well known methods of computing gravity. It is also well known that generally they give erroneous values. The interesting comparison is between the isostatic and rigid crust anomalies. The rigid crust anomalies are obtained by leaving out of consideration the correction for compensation but by taking into account the entire topography of the earth's surface.

DEPTH OF COMPENSATION

Two determinations of the depth at which isostatic equilibrium is reached have been made. One of these, by the method of least squares, gives for nine stations in the Mackenzie river basin a depth of 91 kilometres with a probable error of 29 kilometres. A more accurate determination has been obtained from the results of the twenty stations, already referred to, in the Cordilleran region. The result of this determination is shown graphically in fig. 1 by a method first used by Bowie. The gravity anomalies for a number of depths were computed from tables published by the U. S. Coast and Geodetic Survey. According to the theory of probabilities the most probable depth of compensa-

tion is that for which the sum of the squares of the residual gravity anomalies is a minimum—the lowest point on the curve of fig. 1. The plotted points in the figure, indicated by the circles, are the results of the computations. The curve is obtained by joining these points. Evidently, the most probable depth of compensation for the twenty stations is between 85·3 and 113·7 kilometres, possibly slightly less than 100 kilometres.

Figure 1. Graphical determination of the depth of compensation from 20 stations in the southern portion of the Canadian Cordillera.



REGIONAL TENDENCIES OF THE ANOMALIES ILLUSTRATED BY THE GRAVITY MAP

The positions of the gravity stations with their numbers and their anomalies for a depth of compensation of 113·7 kilometres have been plotted on one of the official maps of Canada. A copy of this map will be found at the end of this publication. Regions of positive anomalies are shown in green, while negative areas are shown in yellow. Lines are drawn through places where the anomalies are the same and have certain values which are indicated on the map. The position of these lines is naturally not so certain in areas where the stations are not so numerous. The information for stations south of the international boundary, designated by the letter 'S', has been taken from the special publications of the U.S. Coast and Geodetic Survey.

The tendencies, as regards sign, of the anomalies are quite interesting. By consulting both the maps it will be seen that we start with a region of negative anomalies over the Paleozoic formation in Manitoba. Coming next to the wide Cretaceous formation which extends out to the Rockies we find that nearly all the anomalies are positive. Next we come to the Tertiary formation along the mountains in Alberta and the only two stations on it, Calgary and Red Deer, give negative anomalies of about the same magnitude. The most mountainous part of British Columbia is characterized by negative anomalies. These could be explained by the great depth of sedimentary and therefore lighter rocks or by the fact that the depth of compensation, 113·7 km., is greater than the indicated depth for this area. It is also possible that the assumed depth of compensation (113·7 km.) may differ considerably from the actual depth for the prairies, but it may be mentioned that for such extensively level regions, and for places where the compensation correction is small, a change in the depth of compensation does not so materially affect the anomaly. Although there are not sufficient stations on either formation to definitely establish the state of affairs, it appears from those that exist that the Nelson and Coast range batholiths are regions of positive anomalies.

Gravity is less than normal at the northern end of the Queen Charlotte islands. The southern part of Vancouver island is quite definitely a region of positive anomalies and Victoria has the largest anomaly of any of the 69 stations. The Edmonton district and the region north of it are remarkably normal in so far as gravity is concerned. All the way down the Mackenzie this state of affairs exists till we reach Good Hope, when we come to a region where the anomalies are getting larger and have changed to positive values. On the prairies the largest anomalies are at Manitou, Estevan and Saskatoon and they are all positive.

ACCURACY OF THE OBSERVATIONS AND REDUCTIONS

An estimate of the accuracy of the observations may be obtained by examination of Tables V, VI and VII. Table V gives the periods of the pendulums resulting from the various standardizations at Ottawa and also the adopted values for each season. The periods of the pendulums at the field stations and the deduced values of g are given in Table VI. Table VII gives the pendulum observations and the reductions giving the times of vibration from these observations.

If the probable errors of the field observations are determined from Table VI it will be found that there are 15 stations with a probable error of ·000 dyne, 39 with ·001 dyne, 11 with ·002 dyne and 2 with ·003 dyne. The two stations at which only one

pendulum was used are not included in this list. The results are no doubt more in error than these figures would indicate. If we add to them the probable errors in the determinations of the mean periods of the pendulums obtained from the spring and fall standardizations at Ottawa it will be found that this sum is zero for 11 stations, ·001 for 15 stations, ·002 for 24 stations, ·003 for 6 stations, ·004 for 10 stations and ·005 for 1 station. The average is ·002. During 1924 and 1925 when most (40) of the stations were established the pendulums remained quite steady during each season. During the season of 1915 also the behaviour of two of the pendulums was quite satisfactory. The stations with the largest uncertainties in the observed values are the 9 in the Mackenzie river basin and 8 established along the Pacific coast in 1926. The probable error in the determination of these stations is estimated to be about ·004 to ·005 dyne.

The corrections for topography and compensation for separate zones are given in Table VIII. Similar tables for the Mackenzie river stations are given in these Publications, Vol. VIII, No. 6. The reductions for all the stations have been made by the writer. Eleven of the stations were also reduced by Mr. McDiarmid. As no record of the corrections for separate zones was kept and as a number of new maps have been published since the earlier reductions were made, it was considered desirable to repeat the work. For the Prairies the writer's values for the corrections are, on an average, ·010 dyne less than those previously obtained. In the mountains the differences are somewhat larger. Taking into consideration the nature of the topography there is only one station where a large difference exists between the two reductions. This is at Revelstoke. The mapping around this station is rather incomplete but in spite of this the writer is inclined to think that the previously published value for Revelstoke was too small. Owing to the fact that the necessary maps are not available, at the present time, no attempt has been made to make the reduction for North Bend.

With the exception of the stations in the mountains, most of which are in the interior of British Columbia, the probable error of the reductions is estimated at less than ·005 dyne. The stations in the mountains, especially those in the more mountainous parts, may be in error by as much as ·010 dyne.

Directly affecting the computed values are the elevations of the stations. An error of 11 feet in elevation introduces an error of ·001 dyne in the computed value of g. There is only one station (Liard River) for which the assigned elevation may be very much in error. It might be as much as 100 to 150 feet higher than has been estimated. The elevations of Resolution and the four stations on Mackenzie river may be from 20 to 50 feet in error. With the possible exceptions of Paradise Mine and Barkerville the elevations of all the remaining stations have been determined by methods which should give results that are correct to within a few feet. In many cases they have been determined precisely from accurate elevations (rail levels) or bench-marks of the Geodetic Survey. The elevations to which stations are referred are given in the descriptions of the stations.

DISTRIBUTION OF THE COMPENSATION

No computations have so far been made by the writer for possible distributions of compensation other than for the uniform distribution upon which the Hayford and Bowie reduction tables are based. There is reason for believing, however, that on the average not very different results would be obtained by any other simple assumption that is likely to represent the actual facts. In fact Heiskanen* has shown from the results of observations, and Jeffreys** theoretically, that by merely a change in the depth of compensation very much the same anomalies are obtained from quite a different (Airy's) distribution of the compensation.

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* "Untersuchungen uber Schwerkraft und Isostasie" von W. Heiskanen.

** "On the Nature of Isostasy" by Harold Jeffreys—Gerland's Beitrage zur Geophysik—Band 15, Heft 2, 1926.

TABLE I

GRAVITY STATIONS IN WESTERN CANADA IN THEIR NUMERICAL AND CHRONOLOGICAL ORDER

Station Number	Station	Gravity Anomaly	Observer	Season Established	Station Number	Station	Gravity Anomaly	Observer	Season Established
31	Winnipeg	+·006	F. A. McDiarmid	1915	66	Princeton	−·010	A. H. Miller	1924
32	Brandon	+·021	" "	1915	67	Phoenix	+·028	"	1924
33	Moosejaw	+·009	" "	1915	68	Nelson	−·008	"	1924
34	Medicine Hat	+·010	" "	1915	69	Cranbrook	+·021	"	1924
35	Calgary	−·014	" "	1915	70	Blairmore	+·016	"	1924
36	Banff	+·034	" "	1915	71	Lethbridge	+·004	"	1924
37	Field	+·002	" "	1915	72	Riverton	−·004	"	1925
38	Glacier	−·002	" "	1915	73	Gypsumville	−·013	"	1925
39	Revelstoke	−·007	" "	1915	74	Manitou	+·036	"	1925
40	Kamloops	−·005	" "	1915	75	Melita	+·019	"	1925
41	North Bend	.....	" "	1915	76	Estevan	+·039	"	1925
42	Vancouver	−·001	" "	1915	77	Indian Head	+·031	"	1925
43	Peace River	+·008	A. H. Miller	1921	78	Moosomin	+·016	"	1925
44	Providence	−·001	"	1921	79	Yorkton	+·024	"	1925
45	Simpson	+·007	"	1921	80	Elbow	+·001	"	1925
46	Norman	−·004	"	1921	81	Swift Current	+·013	"	1925
47	Resolution	−·010	"	1921	82	Bassano	+·008	"	1925
48	Liard River	−·017	"	1922	83	Red Deer	−·011	"	1925
49	Good Hope	+·013	"	1922	84	Coronation	−·008	"	1925
50	Arctic Red R.	+·021	"	1922	85	Paradise Mine	−·008	"	1925
51	Chipewyan	−·009	"	1922	86	Invermere	−·010	"	1925
52	Dauphin	−·007	"	1924	87	Vernon	−·003	"	1925
53	Swan River	+·022	"	1924	88	Barkerville	−·004	"	1925
54	The Pas	+·016	"	1924	89	Tyaughton Creek	−·024	"	1925
55	Prince Albert	+·015	"	1924	90	Union Bay	+·041	"	1925
56	Saskatoon	+·031	"	1924	91	Cloverdale	−·010	"	1925
57	Vermilion	+·006	"	1924	92	Victoria	+·054	"	1926
58	Edmonton	·000	"	1924	93	Banfield	+·020	"	1926
59	Grande Prairie	+·012	"	1924	94	Nootka	·000	"	1926
60	Kinuso	+·004	"	1924	95	Quatsino	+·011	"	1926
61	Lac la Biche	+·003	"	1924	96	Prince Rupert	+·017	"	1926
62	Waterways	+·003	"	1924	97	Stewart	−·016	"	1926
63	Edson	+·012	"	1924	98	Masset	−·013	"	1926
64	Jasper	−·012	"	1924	99	Ocean Falls	+·012	"	1926
65	Mt. Olie	+·001	"	1924					

Average anomaly with regard to sign +·006

Average anomaly without regard to sign ·013

TABLE II

PRINCIPAL FACTS FOR GRAVITY STATIONS

(a) In Manitoba

Number and Station	Longitude	Latitude	Altitude		Computed gravity at sea-level	Corrections for		Computed gravity	Observed gravity	Gravity anomalies
			Feet	Metres		Altitude	Topography and Isostatic Compensation			
72. Riverton	96 59·8	50 59·5	724	221	981·159	−·068	−·006	981·085	981·081	−·004
31. Winnipeg	97 08·0	49 54·4	754	230	981·062	−·071	−·008	980·983	980·989	+·006
74. Manitou	98 32·3	49 14·3	1,607	490	981·002	−·151	+·008	980·859	980·895	+·036
73. Gypsumville	98 37·9	51 46·1	857	261	981·227	−·081	−·004	981·142	981·129	−·013
32. Brandon	99 56·8	49 50·9	1,216	371	981·057	−·115	−·009	980·933	980·954	+·021
52. Dauphin	100 03·0	51 08·7	963	294	981·172	−·091	−·012	981·069	981·062	−·007
75. Melita	100 59·2	49 16·3	1,452	443	981·005	−·137	−·005	980·863	980·882	+·019
54. The Pas	101 14·7	53 49·7	872	266	981·407	−·082	−·004	981·321	981·337	+·016
53. Swan River	101 15·7	52 06·4	1,107	337	981·257	−·104	−·009	981·144	981·166	+·022
Mean anomaly with regard to sign (Manitoba stations)										+·011
Mean anomaly without regard to sign (Manitoba stations)										·016

(b) In Saskatchewan

78. Moosomin	101 40·3	50 08·7	1,892	577	981·084	−·178	+·006	980·912	980·928	+·016
79. Yorkton	101 27·3	51 12·8	1,650	503	981·178	−·155	+·001	981·024	981·048	+·024
76. Estevan	102 59·4	49 08·4	1,860	567	980·994	−·175	−·002	980·817	980·856	+·039
77. Indian Head	103 40·0	50 31·9	1,919	585	981·118	−·181	+·001	980·938	980·969	+·031
33. Moosejaw	105 31·8	50 23·7	1,774	541	981·106	−·167	−·007	980·932	980·941	+·009
55. Prince Albert	105 45·3	53 12·3	1,398	426	981·353	−·132	−·004	981·217	981·232	+·015
80. Elbow	106 35·5	51 07·2	1,929	588	981·170	−·182	·000	980·988	980·989	+·001
56. Saskatoon	106 38·1	52 07·8	1,629	497	981·259	−·153	−·003	981·103	981·134	+·031
81. Swift Current	107 48·1	50 17·4	2,498	761	981·096	−·235	+·004	980·865	980·878	+·013
Mean anomaly with regard to sign (Saskatchewan stations)										+·020
Mean anomaly without regard to sign (Saskatchewan stations)										·020

(c) In Alberta

84. Medicine Hat	110 40·0	50 02·4	2,178	664	981·075	−·205	−·014	980·856	980·866	+·010
57. Vermilion	110 50·8	53 21·4	2,016	614	981·366	−·190	−·001	981·175	981·181	+·006
51. Chipewyan	111 08·8	58 42·7	750	229	981·815	−·071	−·012	981·732	981·723	−·009
62. Waterways	111 15·3	56 40·5	820	250	981·649	−·077	−·024	981·548	981·551	+·003
84. Coronation	111 26·6	52 05·8	2,593	790	981·256	−·244	+·004	981·016	981·008	−·008
61. Lac la Biche	111 58·3	54 46·5	1,801	549	981·488	−·169	−·004	981·315	981·318	+·003
82. Bassano	112 28·2	50 47·5	2,601	793	981·141	−·245	−·008	980·888	980·896	+·008
71. Lethbridge	112 50·3	49 41·7	2,971	906	981·044	−·280	−·012	980·752	980·756	+·004
58. Edmonton	113 31·0	53 31·6	2,197	670	981·381	−·207	−·005	981·169	981·169	·000
83. Red Deer	113 47·7	52 16·3	2,810	856	981·271	−·264	−·005	981·002	980·991	−·011
35. Calgary	114 03·8	51 02·7	3,433	1,046	981·164	−·323	−·006	980·835	980·821	−·014
70. Blairmore	114 26·2	49 36·5	4,222	1,287	981·036	−·397	−·021	980·618	980·634	+·016
60. Kinuso	115 25·9	55 19·9	1,922	586	981·536	−·181	−·010	981·345	981·349	+·004
36. Banff	115 34·5	51 10·9	4,527	1,380	091·176	−·426	−·033	980·717	980·751	+·034
63. Edson	116 25·8	53 35·3	3,038	926	981·386	−·286	−·010	981·090	981·102	+·012
43. Peace River	117 17·3	56 14·1	1,063	324	981·612	−·100	−·038	981·474	981·482	+·008
64. Jasper	118 04·7	52 52·6	3,476	1,060	981·324	−·327	−·057	980·940	980·928	−·012
59. Grande Prairie	118 47·5	55 10·3	2,154	657	981·521	−·203	−·013	981·305	981·317	+·012
Mean anomaly with regard to sign (Alberta stations)										+·004
Mean anomaly without regard to sign (Alberta stations)										·010

(d) In British Columbia

69. Cranbrook	115 45·3	49 30·6	3,004	916	981·027	−·283	−·053	980·691	980·712	+·021
86. Invermere	116 03·4	50 30·2	2,715	828	981·115	−·256	−·086	980·773	980·763	−·010
85. Paradise Mine	116 19·8	50 28·4	7,470	2,277	981·113	−·703	+·066	980·476	980·468	−·008
37. Field	116 29·8	51 23·7	4,081	1,244	981·194	−·384	−·066	980·744	980·746	+·002
68. Nelson	117 17·2	49 29·5	1,823	556	981·025	−·172	−·094	980·759	980·751	−·008
38. Glacier	117 29·5	51 15·7	4,094	1,248	981·183	−·385	−·056	980·742	980·740	−·002
39. Revelstoke	118 11·8	50 59·8	1,486	453	981·160	−·140	−·112	980·908	980·901	−·007
67. Phoenix	118 36·3	49 05·8	4,529	1,380	980·990	−·426	+·028	980·592	980·620	+·028
87. Vernon	119 16·4	50 15·9	1,236	377	981·094	−·116	−·073	980·905	980·902	−·003
65. Mt. Olie	120 12·2	51 24·7	1,269	387	981·196	−·120	−·073	981·003	981·004	+·001
40. Kamloops	120 19·5	50 40·7	1,155	352	981·131	−·109	−·072	980·950	980·945	−·005
66. Princeton	120 30·4	49 27·1	2,086	636	981·022	−·196	−·042	980·784	980·774	−·010
41. North Bend	121 27·0	49 52·3	497	151	981·059	−·047	.....	.....	980·887	.....
88. Barkerville	121 29·8	53 03·8	4,227	1,288	981·341	−·398	+·007	980·950	980·946	−·004
89. Tyaughton Creek	122 42·0	50 56·9	2,084	635	981·155	−·196	−·090	980·869	980·845	−·024
91. Cloverdale	122 44·0	49 06·5	10	3	980·991	−·001	−·045	980·945	980·935	−·010
42. Vancouver	123 06·8	49 16·8	31	9	981·006	−·003	−·054	980·949	980·948	−·001

TABLE II—*Concluded*

PRINCIPAL FACTS FOR GRAVITY STATIONS—*Concluded*

(d) In British Columbia—*Concluded*

Number and Station	Longitude	Latitude	Altitude		Computed gravity at sea-level	Corrections for		Computed gravity	Observed gravity	Gravity anomalies
			Feet	Metres		Altitude	Topography and Isostatic Compensation			
92. Victoria	123 19·5	48 24·8	219	67	980·929	−·021	−·014	980·894	980·948	+·054
48. Liard River	123 47·5	59 58·7	525	160	981·915	−·049	−·059	981·807	981·790	−·017
90. Union Bay	124 53·0	49 34·9	10	3	981·033	−·001	−·044	980·988	981·029	+·041
93. Banfield	125 08·7	48 49·9	30	9	980·967	−·003	−·007	980·957	980·977	+·020
94. Nootka	126 37·6	49 35·5	75	23	981·034	−·007	−·002	981·025	981·025	·000
95. Quatsino	127 37·4	50 32·0	41	12	981·118	−·004	−·004	981·110	981·121	+·011
99. Ocean Falls	127 42·9	52 21·3	60	18	981·279	−·006	−·057	981·216	981·228	+·012
97. Stewart	129 58·3	55 57·2	44	13	981·588	−·004	−·120	981·464	981·448	−·016
96. Prince Rupert	130 19·8	54 18·7	79	24	981·448	−·007	−·026	981·415	981·432	+·017
98. Masset	132 08·8	54 00·7	30	9	981·423	−·003	+·024	981·444	981·431	−·013
Mean anomaly with regard to sign (British Columbia stations)										+·003
Mean anomaly without regard to sign (British Columbia stations)										·013

(e) In Northwest Territories

47. Resolution	113 40·5	61 10·1	500	152	982·008	−·047	−·009	981·952	981·942	−·010
44. Providence	117 39·3	61 21·2	512	156	982·022	−·048	−·018	981·956	981·955	−·001
45. Simpson	121 20·8	61 51·7	433	132	982·061	−·041	−·023	981·997	982·004	+·007
46. Norman	125 34·3	64 54·0	285	87	982·281	−·027	−·036	982·218	982·214	−·004
49. Good Hope	128 38·3	66 15·3	195	59	982·374	−·018	−·029	982·327	982·340	+·013
50. Artic Red River	133 44·3	67 26·6	135	41	982·452	−·013	−·026	982·413	982·434	+·021
Mean anomaly with regard to sign (N. W. Territories stations)										+·004
Mean anomaly without regard to sign (N. W. Territories stations)										·009
Mean anomaly with regard to sign (all stations)										+·006
Mean anomaly without regard to sign (all stations)										·013

TABLE III

TABLE SHOWING ANOMALIES FOR THE VARIOUS STATIONS GROUPED ACCORDING TO THEIR GEOLOGICAL FORMATIONS

Formation and Station Number	Anomaly in Dynes	Formation and Station Number	Anomaly in Dynes	Formation and Station Number	Anomaly in Dynes
Precambrian A_1 and A_2—		Mesozoic (concluded)		Tertiary T-T_1—	
51	−·009	55	+·015	76	+·039
69	+·021	80	+·001	83	−·011
85	−·008	56	+·031	35	−·014
38	−·002	81	+·013	46	−·004
Paleozoic P_2-P_5—		34	+·010	66	−·010
72	−·004	57	+·006	91	−·010
31	+·006	84	−·008	42	−·001
73	−·013	61	+·003	98	−·013
54	+·016	82	+·008		
62	+·003	71	+·004	Unclassified A-P—	
47	−·010	58	·000	39	−·007
44	−·001	60	+·004	87	−·003
45	+·007	63	+·012		
49	+·013	43	+·008	Unclassified P—	
89	−·024	59	+·012	36	+·034
40	−·005	48	−·017	37	+·002
		50	+·021	64	−·012
Mesozoic M_2 (Cretaceous)—		90	+·041	88	−·004
74	+·036			67	+·028
32	+·021	Mesozoic 2 (Igneous)—		68	−·008
52	−·007	92	+·054	86	−·010
75	+·019	93	+·020		
53	+·022	99	+·012	Unclassified M—	
78	+·016	65	+·001	70	+·016
79	+·024			94	·000
77	+·031			95	+·011
33	+·009			96	+·017
				97	−·016

	Number of Stations			Mean Anomaly in Dynes	
	Total number	With positive anomalies	With negative anomalies	With regard to sign	Without regard to sign
Precambrian (A_1-A_2)	4	1	3	+·001	·010
Paleozoic (P_2-P_5)	11	5	6	−·001	·009
Mesozoic (M_2 Cretaceous)	27	23	3	+·012	·014
Mesozoic 2 (Igneous)	4	4	0	+·022	·022
Tertiary	8	1	7	−·003	·013
Unclassified (A-P)	2	0	2	−·005	·005
Unclassified (P)	7	3	4	+·004	·012
Unclassified (M)	5	3	1	+·006	·013
All Stations in Western Canada	68	40	26	+·006	·013
313 Stations in United States	313	.....	.....	−·004	·021

TABLE IV

ANOMALIES BY DIFFERENT METHODS OF REDUCTION FOR 20 STATIONS IN THE CANADIAN CORDILLERA

Station	Elevation of station in feet	Anomalies			
		Free Air	Bouguer	Isostatic	Rigid Crust
		Dynes	Dynes	Dynes	Dynes
Blairmore	4,222	−·005	−·149	+·016	−·043
Banff	4,514	+·002	−·152	+·036	−·033
Cranbrook	3,004	−·032	−·135	+·021	−·021
Invermere	2,715	−·096	−·189	−·010	−·070
Paradise Mine	7,470	+·058	−·197	−·008	−·072
Field	4,066	−·064	−·202	+·002	−·071
Nelson	1,823	−·102	−·164	−·008	−·039
Glacier	4,094	−·057	−·198	−·001	−·057
Jasper	3,476	−·069	−·188	−·012	−·054
Revelstoke	1,486	−·117	−·168	−·005	−·036
Phoenix	4,529	+·056	−·099	+·028	+·022
Vernon	1,236	−·076	−·118	−·003	+·007
Mount Olie	1,269	−·071	−·115	+·002	+·020
Kamloops	1,155	−·075	−·115	−·004	+·012
Princeton	2,086	−·052	−·123	−·010	+·002
Barkerville	4,227	+·003	−·141	−·004	−·008
Tyaughton Ck	2,084	−·114	−·185	−·024	−·037
Cloverdale	10	−·055	−·055	−·010	+·072
Vancouver	20	−·055	−·056	−·001	+·072
Union Bay	10	+·001	+·001	+·041	+·132
Mean with regard to sign		−·046	−·137	+·002	−·067
Mean without regard to sign		·058	·137	·012	·044

TABLE V

RESULTS OF STANDARDIZATIONS MADE AT THE BASE STATION

Date	Periods of Pendulums in Seconds at Ottawa		
	1	2	3
July, 1915	·5013240	·5014408	·5014109
Sept., 1915*	·5013244	·5014431	·5014102
March 14-17, 1921	·5013476	·5014658	·5014396
April 20-23, 1921	·5013471	·5014646	·5014385
Oct. 27-Nov. 4, 1921	·5013455	·5014628	·5014365
Feb. 25-27, 1922	·5013464	·5014635	·5014373
Nov. 7-18, 1922	·5013442	·5014624	·5014364
April 25-30, 1924	·5013458	·5014635	·5014374
March 5-15, 1925	·5013450	·5014638	·5014371
April 14-20, 1925	·5013436	·5014630	·5014369
Dec. 4-11, 1925	·5013435	·5014631	·5014374
May 18-24, 1926	·5013449	·5014632	·5014375
Jan. 10-16, 1927	·5013402	·5014615	·5014351
Adopted value for season of 1915*	·5013242	·5014420	·5014105
" " 1921	·5013463	·5014637	·5014375
" " 1922	·5013453	·5014630	·5014369
" " 1924	·5013454	·5014637	·5014373
" " 1925	·5013436	·5014631	·5014372
" " 1926	·5013426	·5014624	·5014363

*In order to do away with apparent shiftings of the stem in the bob a rivet was inserted through the stem in the bob of each pendulum at the end of the season of 1915. This altered the periods of pendulums as shown in the table.

TABLE VI

PERIODS OF PENDULUMS AT THE STATIONS OCCUPIED BETWEEN JULY, 1915 AND JANUARY, 1927

Number and Station		Periods of Pendulums in Seconds			Value of g in Dynes			Weighted Mean
		1	2	3	1	2	3	
1	Ottawa (July 1915)	·5013240	·5014408	·5014109	.....	.....	.....	980·618
31	Winnipeg	·5012293	·5013479	·5013151	980·989	980·986	980·991	980·989
32	Brandon	·5012381	·5013568	·5013239	980·955	980·951	980·957	980·954
33	Moose Jaw	·5012409	·5013603	·5013276	980·944	980·937	980·942	980·941
34	Medicine Hat	·5012606	·5013795	·5013465	980·867	980·862	980·868	980·866
35	Calgary	·5012725	·5013906	·5013579	980·820	980·819	980·824	980·821
36	Banff	·5012900	·5014089	·5013758	980·752	980·747	980·754	980·751
37	Field	·5012911	·5014100	·5013775	980·747	980·743	980·747	980·746
38	Glacier	·5012928	·5014117	·5013788	980·741	980·736	980·742	980·740
39	Revelstoke	·5012515	·5013705	·5013377	980·902	980·898	980·903	980·901
40	Kamloops	·5012407	·5013590	·5013264	980·944	980·943	980·947	980·945
41	North Bend	·5012551	·5013740	·5013412	980·888	980·884	980·889	980·887
42	Vancouver	·5012398	·5013584	·5013254	980·948	980·945	980·951	980·948
1	Ottawa (Sept. 1915)	·5013244	·5014431	·5014102	.....	.....	.....	980·618
1	Ottawa (April 1921)	·5013471	·5014646	·5014385	.....	.....	.....	980·618
43	Peace River	·5011254	·5012430	.....	981·482	981·482	.....	981·482
44	Providence	·5010040	·5011225	·5010966	981·958	981·954	981·953	981·955
45	Simpson	·5009925	.....	·5010833	982·003	.....	982·005	982·004
46	Norman	·5009385	·5010563	·5010295	982·215	982·213	982·215	982·214
47	Resolution	·5010084	·5011252	·5010985	981·941	981·943	981·945	981·942
1	Ottawa (Oct.-Nov., 1921)	·5013455	·5014628	·5014365	.....	.....	.....	980·618
1	Ottawa (Feb., 1922)	·5013464	·5014635	·5014373	.....	.....	.....	980·618
48	Liard River	·5010460	·5011635	·5011377	981·790	981·790	981·789	981·790
49	Good Hope	·5009058	·5010234	·5009969	982·340	982·339	982·341	982·340
50	Arctic Red River	·5008820	·5009990	.....	982·443	982·435	.....	982·434
51	Chipewyan	·5010627	·5011810	·5011555	981·724	981·722	981·720	981·723
1	Ottawa (Nov., 1922)	·5013442	·5014624	·5014364	.....	.....	.....	980·618
1	Ottawa (April, 1924)	·5013458	·5014635	·5014374	.....	.....	.....	980·618
52	Dauphin	·5012313	·5013507	.....	981·064	981·060	.....	981·062
53	Swan River	.....	·5013230	·5012983	.....	981·169	981·162	981·166
54	The Pas	·5011614	.....	·5012539	981·338	.....	981·336	981·337
55	Prince Albert	·5011881	·5013071	.....	981·233	981·231	.....	981·232
56	Saskatoon	.....	·5013312	·5013059	.....	981·136	981·132	981·134
57	Vermilion	·5012014	.....	·5012936	981·181	.....	981·180	981·181
58	Edmonton	·5012052	·5013221	.....	981·166	981·172	.....	981·169
59	Grande Prairie	.....	·5012848	·5012590	.....	981·318	981·316	981·317
60	Kinuso	·5011585	.....	·5012504	981·349	.....	981·349	981·349
61	Lac la Biche	·5011665	.....	.....	981·318	.....	.....	981·318
62	Waterways	·5011069	·5012261	.....	981·552	981·548	.....	981·551
63	Edson	·5012229	·5013379	·5013151	981·097	981·110	981·096	981·102
64	Jasper	·5012655	.....	·5013586	980·930	.....	980·926	980·928
65	Mt. Olie	·5012466	·5013648	·5013387	981·004	981·005	981·004	981·004
66	Princeton	.....	·5014241	·5013970	.....	980·773	980·776	980·774
67	Phoenix	·5013447	.....	·5014367	980·621	.....	980·620	980·620
68	Nelson	·5013115	·5014297	.....	980·751	980·751	.....	980·751
69	Cranbrook	.....	·5014395	·5014138	.....	980·713	980·710	980·712
70	Blairmore	·5013410	.....	·5014332	980·635	.....	980·634	980·634
71	Lethbridge	·5013098	·5014289	.....	980·757	980·754	.....	980·756
1	Ottawa (March, 1925)	·5013450	·5014638	·5014371	.....	.....	.....	980·618
1	Ottawa (April, 1925)	·5013436	·5014630	·5014369	.....	.....	.....	980·618
72	Riverton	·5012253	·5013444	.....	981·081	981·082	.....	981·081

TABLE VI—*Concluded*

PERIODS OF PENDULUMS AT ALL THE STATIONS OCCUPIED BETWEEN JULY, 1915 AND JANUARY, 1927

Number and Station		Periods of Pendulums in Seconds			Value of g in Dynes			Weighted Mean
		1	2	3	1	2	3	
73	Gypsumville	.....	·5013325	·5013066	.....	981·129	981·129	981·129
74	Manitou	·5012735	.....	·5013659	980·892	.....	980·897	980·895
75	Melita	·5012755	·5013963	.....	980·884	980·879	.....	980·882
76	Estevan	·5012842	·5014025	·5013756	980·850	980·855	980·859	980·856
77	Indian Head	·5012549	.....	·5013471	980·965	.....	980·971	980·969
78	Moosomin	·5012643	·5013835	.....	980·928	980·929	.....	980·928
79	Yorkton	.....	·5013531	·5013275	.....	981·048	981·047	981·048
80	Elbow	·5012497	·5013685	·5013414	980·985	980·988	980·993	980·989
81	Swift Current	·5012774	·5013965	·5013704	980·877	980·879	980·879	980·878
82	Bassano	·5012735	·5013916	.....	980·892	980·898	.....	980·896
83	Red Deer	.....	·5013679	·5013418	.....	980·990	980·991	980·991
84	Coronation	·5012444	.....	·5013367	981·006	.....	981·011	981·008
85	Paradise Mine	·5013824	·5015012	.....	980·466	980·469	.....	980·468
86	Invermere	·5013068	·5014258	.....	980·762	980·764	.....	980·763
87	Vernon	·5012712	·5013903	.....	980·901	980·903	.....	980·902
88	Barkerville	·5012597	·5013791	.....	980·946	980·946	.....	980·946
89	Tyaughton Creek	·5012862	·5014044	.....	980·842	980·848	.....	980·845
90	Union Bay	·5012349	·5013579	·5013329	981·043	981·029	981·026	981·029
91	Cloverdale	.....	.....	·5013561	.....	.....	980·935	980·935
1	Ottawa (Dec., 1925)	·5013435	·5014631	·5014374	.....	.....	.....	980·618
1	Ottawa (May, 1926)	·5013449	·5014632	·5014375	.....	.....	.....	980·618
92	Victoria (June, 1926)	·5012592	·5013770	·5013518	980·946	980·952	980·948	980·948
93	Banfield	.....	·5013709	·5013443	.....	980·976	980·978	980·977
94	Nootka	.....	·5013585	·5013319	.....	981·024	981·026	981·025
95	Quatsino	.....	·5013336	·5013079	.....	981·122	981·120	981·121
96	Prince Rupert	.....	·5012544	·5012287	.....	981·432	981·431	981·432
97	Stewart	.....	·5012498	·5012246	.....	981·450	981·447	981·448
98	Masset	.....	·5012550	·5012283	.....	981·430	981·432	981·431
99	Ocean Falls	.....	·5013067	·5012795	.....	981·227	981·231	981·228
92	Victoria (Sept., 1926)	.....	·5013775	·5013527	.....	980·950	980·945	980·948
1	Ottawa (Jan., 1927)	·5013402	·5014615	·5014351	.....	.....	.....	980·618

TABLE VII

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: OTTAWA, ONT. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		Mean
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1924																					
April 25.....	1	1	D	1	184·15	183·81	7·8	2·0	16·68	55·0	·5013613	·5013638	−18	− 70	+ 8	− 24	− 94	− 9	·5013500	·5013455	
" 25.....	2	1	D	1	185·45	184·00	8·0	1·6	16·14	62·0	·5013517	·5013624	−17	− 48	+ 1	− 24	− 94	− 9	·5013420	·5013457	
																Mean.....			·5013460	·5013456	·5013458
" 25-26...	3	1	D	1	185·74	184·10	8·0	1·9	15·90	53·5	·5013496	·5013617	−18	− 38	+ 9	+ 24	− 101	− 9	·5013464	·5013460	·5013462
" 26.....	4	1	D	1	185·97	184·18	8·0	1·4	15·77	60·0	·5013479	·5013610	−15	− 32	+ 3	+ 27	− 105	− 9	·5013453	·5013452	·5013453
																Mean.....			.....	.....	·5013457
" 26-27...	5	2	D	1	170·78	169·44	7·7	1·7	15·75	60·3	·5014682	·5014798	−16	− 31	+ 3	+ 5	− 108	− 9	·5014634	·5014637	
" 27.....	6	2	D	1	170·77	169·52	7·8	1·9	15·68	61·0	·5014683	·5014791	−18	− 28	+ 2	+ 5	− 108	− 9	·5014635	·5014630	
																Mean.....			·5014635	·5014634	·5014634
" 28.....	7	2	D	1	170·62	169·47	7·6	2·3	16·00	53·2	·5014696	·5014795	−20	− 42	+10	+ 11	− 104	− 9	·5014646	·5014630	
" 28.....	8	2	D	1	171·06	169·43	7·8	1·9	15·55	53·3	·5014658	·5014781	−18	− 23	+10	+ 11	− 104	− 9	·5014629	·5014637	
																Mean.....			·5014638	·5014634	·5014636
" 29.....	9	3	R	1	173·76	172·77	7·8	2·1	15·80	47·0	·5014429	·5014513	−19	− 34	+16	− 3	− 93	− 9	·5014380	·5014374	·5014377
" 29.....	10	3	R	1	174·12	172·86	7·7	1·9	15·58	47·0	·5014400	·5014505	−17	− 24	+16	+ 8	− 98	− 9	·5014374	·5014373	·5014374
" 29-30...	11	3	R	1	173·96	172·80	7·8	1·5	15·72	47·0	·5014413	·5014510	−16	− 30	+16	+ 7	− 94	− 9	·5014381	·5014377	
" 30.....	12	3	R	1	174·15	172·80	7·8	1·7	15·73	47·6	·5014397	·5014510	−17	− 31	+15	+ 7	− 94	− 9	·5014362	·5014374	
																Mean.....			·5014372	·5014376	·5014374

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: DAUPHIN, MANITOBA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		Mean
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1924																					
May 14-15...	1	1	D	1	207·18	204·99	7·7	1·1	9·26	51·3	·5012096	·5012226	−13	+ 241	+11	− 23	− 154	− 7	·5012305	·5012304	·5012305
" 15.....	2	1	D	1	207·32	203·84	7·8	1·5	9·42	53·3	·5012088	·5012295	−16	+ 234	+ 9	+ 21	− 193	− 7	·5012329	·5012322	
" 15-16...	3	1	D	1	207·45	203·67	7·9	1·7	9·78	55·8	·5012080	·5012305	−17	+ 219	+ 6	+ 21	− 193	− 7	·5012302	·5012313	
																Mean.	.....	....	·5012316	·5012318	·5012317
" 16-17...	4	2	D	1	189·29	187·44	8·0	1·5	10·03	51·0	·5013243	·5013373	−16	+ 208	+11	+ 73	− 64	− 7	·5013512	·5013505	
" 17.....	5	2	D	1	189·65	187·57	8·2	2·0	9·59	52·3	·5013217	·5013364	−20	+ 227	+10	+ 73	− 64	− 7	·5013500	·5013510	
																Mean.	.....	....	·5013506	·5013508	·5013507

STATION: SWAN RIVER, MANITOBA. OBSERVER: A. H. MILLER

1924																					
May 23.....	1	2	D	1	191·44	190·87	7·9	1·6	10·41	50·0	·5013093	·5013132	−17	+ 192	+12	+ 3	− 71	−11	·5013272	·5013237	
" 23-24...	2	2	D	1	192·15	190·74	8·0	2·0	10·30	52·3	·5013045	·5013141	−19	+ 197	+10	+ 3	− 71	−11	·5013225	·5013247	
" 24.....	3	2	D	1	193·08	191·57	8·0	1·8	9·45	55·0	·5012981	·5013084	−18	+ 233	+ 7	+ 3	− 71	−11	·5013195	·5013224	
" 24-25...	4	2	D	1	192·99	191·97	7·9	1·9	9·15	47·8	·5012988	·5013057	−18	+ 245	+14	+ 3	− 71	−11	·5013221	·5013216	
																Mean.	.....	....	·5013228	·5013231	·5013230
" 25.....	5	2	D	1	194·13	192·21	8·0	2·3	8·73	48·5	·5012911	·5013040	−21	+ 263	+13	+ 78	− 54	−11	·5013233	·5013230	·5013232
" 26.....	6	3	R	1	197·38	195·21	8·0	1·9	10·13	45·8	·5012698	·5012839	−18	+ 204	+16	+ 104	− 41	−11	·5012993	·5012989	
" 26-27...	7	3	R	1	198·12	195·76	8·0	1·9	9·47	48·0	·5012651	·5012803	−18	+ 232	+14	+ 104	− 41	−11	·5012972	·5012979	
																Mean.	.....	....	·5012983	·5012984	·5012983

STATION: THE PAS, MAN. OBSERVER: A. H. MILLER

1924 May 31-June 1.....	1	3	R	1	199·85	198·91	7·8	1·5	14·42	49·0	·5012541	·5012600	−16	+ 24	+14	− 17	− 77	−11	·5012535	·5012534	·5012535
June 1.....	2	3	R	1	199·45	198·56	7·9	1·8	14·22	51·0	·5012566	·5012622	−18	+ 33	+12	− 41	− 103	−11	·5012541	·5012535	
" 1-2....	3	3	R	1	199·65	198·54	7·8	1·7	14·08	53·5	·5012554	·5012624	−17	+ 39	+ 9	− 41	− 103	−11	·5012533	·5012541	
																Mean.....			·5012537	·5012538	·5012538
" 2.....	4	3	R	1	199·56	198·92	7·8	1·8	13·90	55·8	·5012559	·5012600	−17	+ 46	+ 7	− 31	− 89	−11	·5012553	·5012536	
" 2-3....	5	3	R	1	199·77	198·69	8·0	1·5	14·04	58·0	·5012546	·5012614	−16	+ 40	+ 5	− 31	− 89	−11	·5012533	·5012543	
																Mean.....			·5012543	·5012540	·5012541
" 3.....	6	1	D	1	215·55	214·48	7·9	1·9	13·99	55·0	·5011626	·5011683	−18	+ 42	+ 8	− 6	− 91	−11	·5011641	·5011613	
" 3-4....	7	1	D	1	216·85	214·79	8·0	1·5	13·63	56·0	·5011556	·5011667	−16	+ 57	+ 7	− 6	− 91	−11	·5011587	·5011613	
																Mean.....			·5011614	·5011613	·5011614

STATION: PRINCE ALBERT, SASK. OBSERVER: A. H. MILLER

1924 June 9.....	1	1	D	1	207·62	207·82	7·6	1·3	17·09	48·5	·5012070	·5012059	−14	− 88	+14	− 95	− 92	−11	·5011876	·5011868	
" 9-10....	2	1	D	1	206·38	206·28	7·9	1·9	18·49	50·5	·5012143	·5012149	−18	− 146	+12	− 95	− 92	−11	·5011885	·5011894	
																Mean.....			·5011881	·5011881	·5011881
" 10.....	3	1	D	1	207·04	206·56	7·9	1·5	18·18	52·0	·5012105	·5012132	−16	− 133	+11	− 67	− 101	−11	·5011889	·5011882	
" 10-11...	4	1	D	1	207·40	206·74	7·9	1·5	18·01	53·8	·5012083	·5012122	−16	− 126	+ 9	− 67	− 101	−11	·5011872	·5011877	
" 11.....	5	1	D	1	207·21	206·62	7·8	2·0	17·93	56·0	·5012094	·5012129	−18	− 123	+ 7	− 67	− 101	−11	·5011882	·5011883	
																Mean.....			·5011881	·5011881	·5011881
" 11-12...	6	2	D	1	189·01	188·47	7·6	1·2	18·02	46·0	·5013262	·5013300	−13	− 127	+17	− 56	− 94	−11	·5013072	·5013072	·5013072
" 12.....	7	2	D	1	188·72	188·36	8·1	2·1	18·05	48·0	·5013283	·5013309	−20	− 128	+15	− 71	− 95	−11	·5013068	·5013070	·5013069

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: SASKATOON, SASK. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Internal Chronometer Bond No. 627	Coincidence Internal Chronometer Dent No. 56182	Arc Initial	Arc Final	Temperature	Pressure	Period Uncorrected Chronometer Bond No. 627	Period Uncorrected Chronometer Dent No. 56182	Corrections (7th Decimal Place) Arc	Temp.	Pressure	Rate Bond No. 627	Rate Dent No. 56182	Flexure	Period Corrected Chronometer Bond No. 627	Period Corrected Chronometer Dent No. 56182	Mean
1924																					
June 16.....	1	2	D	1	186·75	184·91	7·8	1·7	17·84	55·0	·5013422	·5013556	−17	− 119	+ 8	+ 34	− 96	−11	·5013317	·5013321	
" 16-17...	2	2	D	1	186·98	185·13	7·7	1·6	17·67	58·5	·5013406	·5013540	−16	− 112	+ 5	+ 34	− 96	−11	·5013306	·5013310	
																Mean.	.....	....	·5013312	·5013316	·5013314
" 17.....	3	2	D	1	186·42	184·81	8·1	1·8	17·97	61·3	·5013447	·5013564	−19	− 124	+ 3	+ 13	− 104	−11	·5013309	·5013309	
" 17-18...	4	2	D	1	186·36	184·78	8·1	1·5	17·94	64·8	·5013451	·5013566	−17	− 123	− 1	+ 13	− 104	−11	·5013312	·5013310	
																Mean.	.....	....	·5013311	·5013310	·5013310
" 18.....	5	3	R	1	189·85	188·35	8·5	2·0	17·99	54·5	·5013204	·5013308	−21	− 125	+ 8	+ 16	− 96	−11	·5013071	·5013063	
" 18-.19..	6	3	R	1	190·44	188·78	7·9	1·7	17·59	57·5	·5013162	·5013278	−17	− 109	+ 6	+ 16	− 96	−11	·5013047	·5013051	
																Mean.	.....	....	·5013059	·5013057	·5013058
" 19.....	7	3	R	1	190·55	188·73	7·5	1·3	17·30	60·8	·5013155	·5013282	−14	− 96	+ 3	+ 30	− 107	−11	·5013067	·5013057	
" 19-20...	8	3	R	1	191·04	188·91	8·3	1·8	16·66	63·8	·5013120	·5013269	−19	− 70	0	+ 30	− 107	−11	·5013050	·5103062	
																Mean.	.....	....	·5013059	·5013060	·5013059

STATION: VERMILION, ALTA. OBSERVER: A. H. MILLER

1924																					
June 24.....	1	3	R	1	193·58	192·74	8·2	2·0	13·11	52·0	·5012948	·5013005	−20	+ 79	+10	− 56	− 125	−10	·5012951	·5012939	
" 24-25...	2	3	R	1	193·95	192·79	7·8	1·5	13·21	59·8	·5012924	·5013002	−16	+ 75	+ 3	− 56	− 125	−10	·5012920	·5012929	
																Mean.	.....	....	·5012936	·5012934	·5012935

" 25.....	3	3	R	1	193·81	192·41	7·8	1·6	13·29	66·0	·5012932	·5013027	−16	+ 72	− 3	− 29	− 134	−10	·5012946	·5012936	
" 25-26...	4	3	R	1	194·08	192·33	7·9	1·6	13·59	55·0	·5012914	·5013032	−17	+ 59	+ 8	− 29	− 134	−10	·5012925	·5012938	
																Mean.....			·5012936	·5012937	·5012936
" 26.....	5	1	D	1	209·25	206·88	8·0	2·0	13·90	51·0	·5011976	·5012113	−19	+ 46	+12	+ 37	− 124	−10	·5012042	·5012018	
" 26-27...	6	1	D	1	209·90	206·75	8·5	1·8	14·08	55·0	·5011939	·5012121	−20	+ 39	+ 8	+ 37	− 124	−10	·5011993	·5012014	
																Mean.....			·5012018	·5012016	·5012017
" 27.....	7	1	D	1	209·77	206·58	8·2	1·7	14·17	59·0	·5011946	·5012131	−18	+ 35	+ 4	+ 57	− 129	−10	·5012014	·5012013	
" 27-28...	8	1	D	1	209·83	206·53	8·1	1·6	14·27	63·0	·5011943	·5012134	−18	+ 31	0	+ 57	− 129	−10	·5012003	·5012008	
																Mean.....			·5012009	·5012011	·5012010

STATION: EDMONTON, ALTA. OBSERVER: A. H. MILLER

1924																							
July 1.....	1	1	D	1	202·61	201·19	7·9	1·9	21·23	49·0	·5012369	·5012457	−18	− 261	+15	− 29	− 123	−10	·5012066	·5012060	
" 1-2.....	2	1	D	1	202·85	201·25	7·9	1·6	21·30	52·0	·5012355	·5012453	−17	− 264	+12	− 29	− 123	−10	·5012047	·5012051	
																Mean.....			·5012057	·5012056	·5012056
" 2.....	3	1	D	1	202·40	201·01	8·0	1·6	21·60	55·5	·5012383	·5012468	−17	− 277	+ 8	− 33	− 122	−10	·5012054	·5012050	
" 2-3.....	4	1	D	1	202·43	200·92	7·9	1·6	21·80	58·8	·5012381	·5012474	−17	− 285	+ 5	− 33	− 122	−10	·5012041	·5012045	
																Mean.....			·5012048	·5012048	·5012048
" 3.....	5	2	D	1	184·45	184·01	8·1	1·9	21·75	48·3	·5013591	·5013624	−19	− 283	+16	− 65	− 105	−10	·5013230	·5013223	
" 3-4.....	6	2	D	1	184·70	184·15	8·0	1·7	21·59	53·3	·5013571	·5013613	−17	− 276	+11	− 65	− 105	−10	·5013214	·5013216	
																Mean.....			·5013222	·5013220	·5013221
" 4.....	7	2	D	1	184·80	184·24	7·7	1·3	21·62	59·0	·5013565	·5013607	−14	− 277	+ 6	− 27	− 88	−10	·5013243	·5013224	
" 4-5.....	8	2	D	1	185·44	184·34	7·2	1·8	21·68	53·4	·5013518	·5013599	−16	− 280	+11	− 27	− 88	−10	·5013196	·5013216	
																Mean.....			·5013220	·5013220	·5013220

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: GRANDE PRAIRIE, ALTA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		Mean
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1924																					
July 10.....	1	2	D	1	194·70	192·62	7·9	1·7	15·21	51·0	·5012873	·5013012	−17	− 9	+12	+ 9	− 139	−11	·5012857	·5012848	
" 10-11....	2	2	D	1	194·92	192·52	8·0	1·9	15·19	54·8	·5012859	·5013020	−18	− 8	+ 8	+ 9	− 139	−11	·5012839	·5012852	
																Mean.....		....	·5012848	·5012850	·5012849
" 11.....	3	2	D	1	194·61	192·17	7·9	1·7	15·50	59·0	·5012880	·5013043	−17	− 21	+ 4	+ 17	− 150	−11	·5012852	·5012848	
" 11-12...	4	2	D	1	194·49	191·94	7·9	1·6	15·85	63·0	·5012888	·5013059	−17	− 36	0	+ 17	− 150	−11	·5012841	·5012845	
																Mean.....		....	·5012847	·5012847	·5012847
" 12.....	5	3	R	1	197·99	195·85	7·5	1·9	16·41	56·3	·5012659	·5012797	−17	− 59	+ 7	+ 20	− 120	−11	·5012599	·5012597	
" 12-13...	6	3	R	1	198·10	195·87	7·9	1·6	16·64	60·0	·5012652	·5012796	−17	− 69	+ 4	+ 20	− 120	−11	·5012579	·5012583	
																Mean.....		....	·5012589	·5012590	·5012590

STATION: KINUSO, ALTA. OBSERVER: A. H. MILLER

1924																					
July 18.....	1	3	R	1	202·26	199·29	7·5	1·6	13·55	54·6	·5012391	·5012576	−16	+ 61	+ 8	+ 67	− 122	−11	·5012500	·5012496	
" 18-19...	2	3	R	1	202·19	199·01	7·9	1·6	13·61	58·5	·5012396	·5012593	−17	+ 58	+ 5	+ 67	− 122	−11	·5012498	·5012506	
																Mean.....		....	·5012499	·5012501	·5012500
" 19.....	3	3	R	1	202·44	199·88	8·0	1·6	13·67	50·0	·5012380	·5012539	−17	+ 56	+13	+ 85	− 80	−11	·5012506	·5012500	
" 19-20...	4	3	R	1	202·31	199·67	8·0	1·8	13·64	53·0	·5012388	·5012552	−18	+ 57	+10	+ 85	− 80	−11	·5012511	·5012510	
																Mean.....		....	·5012509	·5012505	·5012507

" 20.....	5	1	D	1	218·51	214·91	8·3	1·7	13·75	53·0	·5011468	·5011659	−18	+ 52	+10	+ 90	− 104	−11	·5011591	·5011588	
" 20-21...	6	1	D	1	219·03	215·26	7·9	1·9	13·33	56·5	·5011440	·5011641	−18	+ 70	+ 6	+ 90	− 104	−11	·5011577	·5011584	
																Mean.....			·5011584	·5011586	·5011585

STATION: LAC LA BICHE, ALBERTA. OBSERVER: A. H. MILLER

1924																								
July 26-27 ...	1	1	D	1	217·04	214·76	8·0	1·1	13·57	53·0	·5011545	·5011668	−14	+60	+10	+ 53	− 67	−10	·5011644	·5011647	·5011646
" 27.....	2	1	D	1	216·97	214·60	8·0	1·5	13·31	57·0	·5011549	·5011677	−16	+71	+ 6	+ 89	− 42	−10	·5011689	·5011686	
" 27-28...	3	1	D	1	217·46	214·75	8·0	1·6	13·16	60·5	·5011523	·5011669	−17	+77	+ 2	+ 89	− 42	−10	·5011664	·5011679	
" 28.....	4	1	D	1	217·47	215·22	7·9	1·5	12·99	64·5	·5011522	·5011643	−16	+84	− 2	+ 89	− 42	−10	·5011667	·5011657	
" 28-29...	5	1	D	1	217·84	215·44	7·8	1·5	12·92	56·8	·5011503	·5011631	−16	+87	+ 6	+ 89	− 42	−10	·5011659	·5011656	
																Mean.....			·5011670	·5011670	·5011670

STATION: WATERWAYS, ALTA. OBSERVER: A. H. MILLER

1924																								
Aug. 2.....	1	1	D	1	227·52	225·96	8·1	1·7	15·01	51·0	·5011012	·5011088	−18	0	+12	+ 84	+ 2	−13	·5011077	·5011071	
" 2-3.....	2	1	D	1	228·88	227·20	8·0	1·6	13·50	54·0	·5010947	·5011028	−17	+ 63	+ 9	+ 84	+ 2	−13	·5011073	·5011072	
																Mean.....			·5011075	·5011072	·5011073
" 3.....	3	1	D	1	230·27	227·92	8·0	1·6	12·90	57·0	·5010881	·5010993	−17	+ 88	+ 6	+ 135	+ 16	−13	·5011080	·5011073	
" 3-4.....	4	1	D	1	233·10	230·39	7·9	1·4	10·44	60·0	·5010748	·5010875	−15	+ 191	+ 2	+ 135	+ 16	−13	·5011048	·5011056	
																Mean.....			·5011064	·5011065	·5011064
" 4.....	5	2	D	1	207·30	205·43	8·1	1·9	13·51	51·0	·5012089	·5012199	−19	+ 62	+12	+ 126	+ 21	−13	·5012257	·5012262	
" 4-5.....	6	2	D	1	209·20	207·44	7·9	1·6	10·68	54·0	·5011979	·5012081	−17	+ 181	+ 8	+ 126	+ 21	−13	·5012264	·5012261	
																Mean.....			·5012261	·5012262	·5012261

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: EDSON, ALTA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		Mean
					Chronometer						Chronometer					Rate			Chronometer		
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1924																					
Aug. 14.....	1	2	D	1	186·76	185·63	8·0	1·7	16·06	52·8	·5013422	·5013504	−17	− 44	+10	+ 34	− 61	− 8	·5013397	·5013384	
" 14-15...	2	2	D	1	187·39	185·82	8·2	1·5	15·93	56·3	·5013377	·5013490	−17	− 39	+ 7	+ 34	− 61	− 8	·5013354	·5013372	
																Mean.	.....	....	·5013376	·5013378	·5013377
" 15.....	3	2	D	1	187·34	185·83	8·0	1·5	15·89	59·3	·5013380	·5013490	−16	− 37	+ 4	+ 60	− 49	− 8	·5013383	·5013384	
" 15-16...	4	2	D	1	187·47	186·01	8·0	1·4	15·70	62·6	·5013371	·5013476	−15	− 29	+ 1	+ 60	− 49	− 8	·5013380	·5013376	
																Mean.	.....	....	·5013382	·5013380	·5013381
" 16.....	5	3	R	1	190·86	189·29	8·0	1·8	15·81	54·5	·5013133	·5013243	−18	− 34	+ 8	+ 72	− 38	− 8	·5013153	·5013153	
" 16-17...	6	3	R	1	190·98	189·40	8·1	1·8	15·63	57·5	·5013124	·5013235	−19	− 26	+ 5	+ 72	− 38	− 8	·5013148	·5013149	
																Mean.	.....	....	·5013152	·5013151	·5013151
" 17.....	7	3	R	1	190·82	189·41	8·0	1·7	15·69	60·6	·5013136	·5013234	−17	− 29	+ 3	+ 66	− 29	− 8	·5013151	·5013154	
" 17-18...	8	3	R	1	191·05	189·60	7·9	1·4	15·45	63·5	·5013119	·5013221	−15	− 19	0	+ 66	− 29	− 8	·5013143	·5013150	
																Mean.	.....	....	·5013147	·5013152	·5013150
" 18.....	9	1	D	1	205·34	203·62	8·1	2·0	15·64	52·8	·5012205	·5012308	−20	− 27	+10	+ 74	− 30	− 8	·5012234	·5012233	
" 18-19...	10	1	D	1	205·82	204·12	8·1	1·5	15·16	55·8	·5012176	·5012278	−17	− 7	+ 7	+ 74	− 30	− 8	·5012225	·5012223	
																Mean.	.....	....	·5012230	·5012228	·5012229

STATION: JASPER, ALTA. OBSERVER: A. H. MILLER

1924																							
Aug. 22.....	1	3	R	1	185·79	184·47	8·0	1·5	14·00	55·0	·5013493	·5013589	−16	+	42	+ 8	+	63	−	30	− 9	·5013581	·5013584	
" 22-23..	2	3	R	1	185·37	184·17	8·0	1·8	14·36	58·8	·5013523	·5013612	−18	+	27	+14	+	63	−	30	− 9	·5013590	·5013586	
																	Mean.	.....	....			·5013586	·5013585	·5013585
" 23.....	3	3	R	1	185·38	184·24	8·0	1·5	14·53	62·5	·5013522	·5013606	−16	+	20	0	+	64	−	19	− 9	·5013581	·5013592	
" 23-24...	4	3	R	1	185·15	184·08	8·0	1·5	14·70	65·8	·5013539	·5013618	−16	+	13	− 3	+	64	−	19	− 9	·5013588	·5013584	
																	Mean.	.....	....			·5013585	·5013588	·5013586
" 24.....	5	1	D	1	198·84	197·55	7·8	1·8	14·94	55·1	·5012604	·5012687	−17	+	3	+ 8	+	55	−	20	− 9	·5012644	·5012652	
" 24-25...	6	1	D	1	198·43	197·31	8·0	1·6	15·06	64·9	·5012631	·5012702	−17	−	3	− 2	+	55	−	20	− 9	·5012655	·5012651	
																	Mean.	.....	....			·5012650	·5012652	·5012651
" 25.....	7	1	D	1	198·47	197·33	8·0	2·2	15·37	48·0	·5012628	·5012702	−20	−	16	+15	+	65	−	11	− 9	·5012663	·5012661	·5012662

STATION: MT. OLIE, B.C. OBSERVER: A. H. MILLER

1924																							
Aug. 31.....	1	1	D	1	203·48	202·12	7·8	1·7	13·79	56·1	·5012316	·5012400	−17	+	51	+ 7	+	106	+	25	−11	·5012452	·5012455	
" 31- Sept. 1.....	2	1	D	1	202·59	201·35	7·8	1·5	14·43	59·9	·5012371	·5012447	−16	+	24	+ 3	+	106	+	25	−11	·5012477	·5012472	
																	Mean.	.....	....			·5012465	·5012464	·5012464
Sept. 1.....	3	1	D	1	202·71	201·86	7·8	1·8	14·45	52·3	·5012363	·5012415	−17	+	23	+11	+	90	+	38	−11	·5012459	·5012459	
" 1-2....	4	1	D	1	201·85	200·96	8·1	1·7	15·23	55·8	·5012416	·5012472	−18	−	10	+ 7	+	90	+	38	−11	·5012474	·5012478	
																	Mean.	.....	....			·5012467	·5012469	·5012468
" 2.....	5	2	D	1	184·47	183·24	8·0	1·9	15·30	55·0	·5013589	·5013681	−18	−	13	+ 8	+	89	−	5	−11	·5013644	·5013642	
" 2-3....	6	2	D	1	184·24	182·96	8·0	1·5	15·50	58·8	·5013606	·5013702	−16	−	21	+ 4	+	89	−	5	−11	·5013651	·5013653	
																	Mean.	.....	....			·5013648	·5013648	·5013648
" 3.....	7	3	R	1	187·91	186·74	7·7	2·3	15·72	55·0	·5013340	·5013423	−20	−	30	+ 8	+	102	+	15	−11	·5013389	·5013385	·5013387

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: PRINCETON, B.C. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		Mean
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1924																					
Sept. 23.....	1	2	D	1	177·64	176·53	7·6	1·6	13·86	57·5	·5014113	·5014202	−16	+ 48	+ 5	+ 104	+ 14	−11	·5014243	·5014242	
" 23-24...	2	2	D	1	177·95	176·80	8·0	1·4	13·44	59·7	·5014088	·5014180	−15	+ 65	+ 3	+ 104	+ 14	−11	·5014234	·5014236	
																Mean.	.....	....	·5014239	·5014239	·5014239
" 24.....	3	2	D	1	178·38	176·54	7·8	1·4	13·25	63·0	·5014055	·5014201	−15	+ 73	0	+ 141	− 7	−11	·5014243	·5014241	
" 24-25...	4	2	D	1	178·36	176·49	8·0	1·4	13·24	66·3	·5014056	·5014206	−15	+ 74	− 3	+ 141	− 7	−11	·5014242	·5014244	
																Mean.	.....	....	·5014243	·5014243	·5014243
" 25.....	5	3	R	1	181·78	180·29	7·6	1·9	13·32	53·8	·5013791	·5013905	−17	+ 70	+ 9	+ 129	+ 10	−11	·5013971	·5013966	
" 25-26...	6	3	R	1	181·90	180·33	8·0	1·5	13·09	57·0	·5013782	·5013902	−16	+ 80	+ 6	+ 129	+ 10	−11	·5013970	·5013971	
																Mean.	.....	....	·5013971	·5013969	·5013970

STATION: PHOENIX, B.C. OBSERVER: A. H. MILLER

1924																					
Sept. 30.....	1	3	R	1	178·25	176·86	7·8	1·9	9·65	48·6	·5014065	·5014175	−18	+ 224	+13	+ 99	− 16	− 8	·5014375	·5014370	
" 30-Oct. 1.....	2	3	R	1	178·93	177·41	7·5	1·6	8·68	51·6	·5014011	·5014131	−16	+ 265	+10	+ 99	− 16	− 8	·5014361	·5014366	
																Mean.	.....	....	·5014368	·5014368	·5014368
" 1.....	3	3	R	1	179·56	177·74	7·2	1·6	8·15	55·3	·5013962	·5014105	−15	+ 287	+ 7	+ 134	− 10	− 8	·5014367	·5014366	
" 1-2.....	4	3	R	1	179·61	177·87	7·9	1·4	7·97	58·9	·5013958	·5014094	−15	+ 295	+ 3	+ 134	− 10	− 8	·5014367	·5014359	
																Mean.	.....	....	·5014367	·5014363	·5014365

"	2.....	5	1	D	1	192·69	190·63	7·8	1·8	7·77	56·3	·5013008	·5013149	−17	+ 303	+ 6	+ 159	+ 15	− 8	·5013451	·5013448	
"	2-3....	6	1	D	1	193·90	191·71	7·8	1·7	6·29	45·0	·5012927	·5013074	−17	+ 365	+16	+ 159	+ 15	− 8	·5013442	·5013445	
																	Mean.....			·5013447	·5013447	·5013447

STATION: NELSON, B.C. OBSERVER: A. H. MILLER

	1924																									
Oct.	7-8....	1	1	D	1	194·90	192·59	7·8	1·7	11·96	57·5	·5012860	·5013015	−17	+ 127	+ 4	+ 154	− 5	− 8	·5013120	·5013116	
"	8.....	2	1	D	1	195·39	192·94	7·9	1·7	11·47	61·0	·5012828	·5012991	−17	+ 148	+ 1	+ 154	− 5	− 8	·5013106	·5013110	
																	Mean.....			·5013113	·5013113	·5013113
"	8-9....	3	1	D	1	195·64	193·16	7·9	1·8	11·29	48·1	·5012811	·5012976	−18	+ 155	+14	+ 164	+ 2	− 8	·5013118	·5013121	
"	9.....	4	1	D	1	196·12	193·72	7·9	1·8	10·61	51·0	·5012780	·5012939	−18	+ 184	+11	+ 164	+ 2	− 8	·5013113	·5013110	
																	Mean.....			·5013116	·5013116	·5013116
"	9-10...	5	2	D	1	179·33	177·41	8·0	1·8	10·87	50·5	·5013980	·5014131	−18	+ 173	+11	+ 162	+ 13	− 8	·5014300	·5014302	
"	10.....	6	2	D	1	179·24	177·39	8·0	1·8	11·08	54·5	·5013987	·5014133	−18	+ 164	+ 7	+ 162	+ 13	− 8	·5014294	·5014291	
																	Mean.....			·5014297	·5014297	·5014297

STATION: CRANBROOK, B.C. OBSERVER: A. H. MILLER

	1924																									
Oct.	14.....	1	2	D	1	173·61	172·03	8·0	1·7	17·57	55·3	·5014442	·5014575	−17	− 108	+ 8	+ 78	− 55	−11	·5014392	·5014392	
"	14-15...	2	2	D	1	173·68	172·11	8·0	1·5	17·24	58·1	·5014437	·5014568	−16	− 94	+ 6	+ 78	− 55	−11	·5014400	·5014398	
																	Mean.....			·5014396	·5014395	·5014396
"	15.....	3	2	D	1	173·43	171·84	8·0	1·5	17·85	61·6	·5014457	·5014591	−16	− 119	+ 2	+ 78	− 56	−11	·5014391	·5014391	
"	15-16...	4	2	D	1	172·94	171·35	8·1	1·5	18·61	65·3	·5014498	·5014633	−17	− 151	− 1	+ 78	− 56	−11	·5014396	·5014397	
																	Mean.....			·5014394	·5014394	·5014394
"	16.....	5	3	R	1	176·21	174·67	7·7	1·9	18·61	50·4	·5014228	·5014354	−17	− 151	+13	+ 79	− 48	−11	·5014141	·5014140	
"	16-17...	6	3	R	1	176·44	174·90	8·0	1·7	18·20	53·3	·5014210	·5014335	−17	− 134	+10	+ 79	− 48	−11	·5014137	·5014135	
																	Mean.....			·5014139	·5014138	·5014138

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: BLAIRMORE, ALTA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval: Chronometer Bond No. 627	Coincidence Interval: Chronometer Dent No. 56182	Arc: Initial	Arc: Final	Temperature	Pressure	Period Uncorrected: Chronometer Bond No. 627	Period Uncorrected: Chronometer Dent No. 56182	Corrections (7th Decimal Place): Arc	Corrections (7th Decimal Place): Temp.	Corrections (7th Decimal Place): Pressure	Corrections (7th Decimal Place): Rate Bond 627	Corrections (7th Decimal Place): Rate Dent 56182	Corrections (7th Decimal Place): Flexure	Period Corrected: Chronometer Bond No. 627	Period Corrected: Chronometer Dent No. 56182	Mean
1924																					
Oct. 21.....	1	3	R	1	173·89	172·31	7·9	1·8	17·77	53·8	·5014419	·5014552	−18	− 116	+ 9	+ 50	− 85	− 9	·5014335	·5014333	
" 21-22...	2	3	R	1	174·52	172·85	8·1	1·7	16·72	56·1	·5014367	·5014506	−18	− 72	+ 7	+ 50	− 85	− 9	·5014325	·5014329	
																Mean.....			·5014330	·5014331	·5014331
" 22.....	3	3	R	1	174·50	172·72	8·0	1·7	17·09	58·9	·5014368	·5014516	−17	− 88	+ 5	+ 65	− 86	− 9	·5014324	·5014321	
" 22-23...	4	3	R	1	173·91	172·12	8·0	1·4	17·80	62·3	·5014417	·5014567	−15	− 117	+ 2	+ 65	− 86	− 9	·5014343	·5014342	
																Mean.....			·5014334	·5014332	·5014333
" 23.....	5	1	D	1	185·87	183·55	7·7	1·7	18·01	52·8	·5013486	·5013658	−16	− 126	+10	+ 73	− 100	− 9	·5013418	·5013417	
" 23-24...	6	1	D	1	186·59	184·27	7·8	1·7	16·96	55·8	·5013435	·5013604	−17	− 82	+ 7	+ 73	− 100	− 9	·5013407	·5013403	
" 24.....	7	1	D	1	186·80	184·38	7·8	2·1	16·56	58·8	·5013419	·5013596	−19	− 65	+ 5	+ 73	− 100	− 9	·5013404	·5013408	
																Mean.....			·5013410	·5013409	·5013410

STATION: LETHBRIDGE, ALTA. OBSERVER: A. H. MILLER

1924																					
Oct. 28-29...	1	1	D	1	188·65	186·25	8·0	1·7	20·67	52·4	·5013287	·5013459	−17	− 238	+12	+ 64	− 102	−10	·5013098	·5013104	
" 29.....	2	1	D	1	188·54	186·26	8·2	1·9	20·69	55·4	·5013295	·5013458	−19	− 236	+ 9	+ 64	− 102	−10	·5013101	·5013098	
																Mean.....			·5013100	·5013101	·5013100
" 29.....	3	1	D	1	188·64	186·40	7·8	1·4	20·74	58·8	·5013288	·5013448	−15	− 241	+ 5	+ 68	− 94	−10	·5013095	·5013093	
" 29-30...	4	1	D	1	188·48	186·27	8·2	1·7	20·80	62·5	·5013299	·5013457	−18	− 243	+ 2	+ 68	− 94	−10	·5013098	·5013094	
																Mean.....			·5013097	·5013094	·5013095

" 30.....	5	2	D	1	173·13	171·12	8·0	1·5	20·98	55·0	·5014482	·5014652	−16	− 251	+ 9	+ 75	− 89	−10	·5014289	·5014295	
" 30-31...	6	2	D	1	173·13	171·23	8·0	1·5	20·94	58·6	·5014482	·5014643	−16	− 249	+ 5	+ 75	− 89	−10	·5014287	·5014284	
																Mean.	.....	....	·5014288	·5014290	·5014289

STATION: OTTAWA, ONTARIO. OBSERVER: A. H. MILLER

1925																					
Mar. 5-6....	1	1	D	1	187·40	184·99	7·9	1·8	14·49	53·6	·5013376	·5013551	−18	+ 21	+ 9	+ 81	− 105	− 9	·5013460	·5013449	
" 6-7....	2	1	D	1	187·99	185·30	7·9	0·8	14·10	55·1	·5013334	·5013528	−12	+ 38	+ 8	+ 81	− 105	− 9	·5013440	·5013448	
																Mean.	.....	....	·5013450	·5013449	·5013449
" 9-10...	3	1	D	1	188·18	185·58	7·8	1·5	13·93	60·0	·5013320	·5013508	−16	+ 45	+ 3	+ 105	− 80	− 9	·5013448	·5013451	
" 10.....	4	1	D	1	188·10	185·54	7·8	1·3	13·86	67·8	·5013326	·5013511	−15	+ 48	− 5	+ 105	− 80	− 9	·5013450	·5013450	
																Mean.	.....	....	·5013449	·5013451	·5013450
" 11-12 ..	5	2	D	1	172·63	170·92	8·0	1·5	13·81	61·0	·5014524	·5014670	−16	+ 50	+ 2	+ 98	− 64	− 9	·5014649	·5014633	
" 12.....	6	2	D	1	173·06	171·04	8·0	1·7	13·61	51·0	·5014488	·5014660	−17	+ 58	+12	+ 98	− 64	− 9	·5014630	·5014640	
																Mean.	.....	....	·5014640	·5014637	·5014638
" 12-13...	7	2	D	1	173·06	170·93	8·1	1·5	13·41	59·0	·5014488	·5014669	−17	+ 67	+ 4	+ 118	− 76	− 9	·5014651	·5014638	
" 13.....	8	2	D	1	173·50	171·01	8·1	1·5	13·30	54·5	·5014451	·5014662	−17	+ 71	+ 8	+ 118	− 76	− 9	·5014622	·5014639	
																Mean.	.....	....	·5014637	·5014639	·5014638
" 13-14...	9	3	R	1	176·42	173·81	7·8	1·9	13·56	51·0	·5014211	·5014425	−18	+ 60	+12	+ 119	− 97	− 9	·5014375	·5014373	
" 14.....	10	3	R	1	176·50	173·80	7·5	1·3	13·47	59·0	·5014205	·5014426	−14	+ 64	+ 4	+ 119	− 97	− 9	·5014369	·5014374	
																Mean.	.....	....	·5014372	·5014374	·5014373
" 14-15...	11	3	R	1	176·40	174·30	7·9	1·5	13·20	49·5	·5014213	·5014384	−16	+ 75	+12	+ 112	− 81	− 9	·5014387	·5014365	
" 15.....	12	3	R	1	176·83	174·42	8·0	1·1	12·91	57·5	·5014178	·5014375	−14	+ 88	+ 5	+ 112	− 81	− 9	·5014360	·5014364	
																Mean.	.....	....	·5014374	·5014365	·5014369

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: OTTAWA, ONTARIO. OBSERVER: A. H. MILLER—*Concluded*

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc.		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		Mean
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1925																					
April 14-15...	1	1	D	1	185·83	183·78	7·8	1·7	15·40	58·0	·5013489	·5013640	−17	− 17	+ 5	− 12	− 162	− 9	·5013439	·5013440	
" 15.....	2	1	D	1	185·87	183·89	8·0	1·5	15·36	58·7	·5013486	·5013632	−16	− 15	+ 4	− 12	− 162	− 9	·5013438	·5013434	
																Mean.....			·5013439	·5013437	·5013438
April 15-16...	3	1	D	1	186·05	183·76	7·8	1·4	15·27	59·4	·5013474	·5013642	−15	− 11	+ 4	− 10	− 176	− 9	·5013433	·5013435	
" 16.....	4	1	D	1	186·03	183·83	8·1	1·5	15·13	60·2	·5013475	·5013637	−17	− 5	+ 3	− 10	− 176	− 9	·5013437	·5013433	
																Mean.....			·5013435	·5013434	·5013435
" 16-17...	5	2	D	1	170·99	169·14	7·9	1·8	15·11	54·5	·5014664	·5014824	−18	− 5	+ 8	− 9	− 171	− 9	·5014631	·5014629	
" 17.....	6	2	D	1	171·05	169·16	7·9	1·4	15·00	59·5	·5014658	·5014823	−15	0	+ 3	− 9	− 171	− 9	·5014628	·5014631	
																Mean.....			·5014630	·5014630	·5014630
" 17-18...	7	2	D	1	170·91	168·98	8·0	1·6	15·13	54·0	·5014670	·5014839	−17	− 5	+ 9	− 17	− 183	− 9	·5014631	·5014634	
" 18.....	8	2	D	1	170·84	169·00	8·0	1·6	15·16	59·9	·5014676	·5014837	−17	− 7	+ 3	− 17	− 183	− 9	·5014629	·5014624	
																Mean.....			·5014630	·5014629	·5014630
" 18-19...	9	3	R	1	173·94	171·92	7·7	1·4	15·39	50·5	·5014414	·5014585	−15	− 16	+12	− 19	− 184	− 9	·5014367	·5014373	
" 19.....	10	3	R	1	173·98	172·07	7·8	1·5	15·20	51·6	·5014411	·5014571	−16	− 8	+11	− 19	− 184	− 9	·5014370	·5014365	
																Mean.....			·5014369	·5014369	·5014369
" 19-20...	11	3	R	1	174·08	172·27	8·0	1·7	15·03	54·4	·5014403	·5014554	−17	− 1	+ 9	− 15	− 165	− 9	·5014370	·5014371	
" 20.....	12	3	R	1	174·13	172·34	8·0	1·5	14·95	57·4	·5014398	·5014549	−16	+ 2	+ 6	− 15	− 165	− 9	·5014366	·5014367	
																Mean.....			·5014368	·5014369	·5014369

59075—3½

STATION: RIVERTON, MANITOBA. OBSERVER: A. H. MILLER.

1925																						
May 7.....	1	1	D	1	212·01	208·24	7·8	1·9	6·15	49·0	·5011820	·5012035	−18	+ 371	+12	+ 93	− 143	− 8	·5012270	·5012249		
" 7-8....	2	1	D	1	215·07	210·42	7·8	1·6	3·07	49·0	·5011652	·5011909	−16	+ 500	+12	+ 93	− 143	− 8	·5012233	·5012254		
																Mean.....			·5012251	·5012251	·5012251	
" 8.....	3	1	D	1	211·04	207·89	8·0	1·8	7·00	49·5	·5011874	·5012055	−18	+ 335	+11	+ 59	− 128	− 8	·5012253	·5012247		
" 8-9....	4	1	D	1	211·50	208·24	8·0	1·6	6·12	56·4	·5011848	·5012035	−17	+ 372	+ 5	+ 59	− 128	− 8	·5012259	·5012259		
																Mean.....			·5012256	·5012253	·5012254	
" 9.....	5	2	D	1	193·09	189·99	8·0	1·9	5·19	62·5	·5012981	·5013194	−18	+ 411	− 1	+ 104	− 124	− 8	·5013469	·5013454		
" 9-10...	6	2	D	1	195·43	191·81	7·8	1·7	3·11	42 5	·5012825	·5013067	−17	+ 498	−18	+ 104	− 124	− 8	·5013420	·5013434		
																Mean.....			·5013444	·5013444	·5013444	

STATION: GYPSUMVILLE, MANITOBA. OBSERVER: A. H. MILLER

1925																						
May 16.....	1	2	D	1	195·24	192·06	7·9	1·8	4·70	59·5	·5012838	·5013051	−18	+ 432	+ 1	+ 57	− 142	−10	·5013300	·5013314		
" 16-17...	2	2	D	1	194·06	191·30	8·2	1·8	5·58	43·2	·5012916	·5013103	−19	+ 395	+18	+ 57	− 142	−10	·5013357	·5013345		
																Mean.....			·5013329	·5013329	·5013329	
" 17.....	3	2	D	1	191·14	189·30	8·2	1·8	9·11	57·3	·5013114	·5013242	−19	+ 247	+ 5	− 18	− 162	−10	·5013319	·5013303		
" 17-18...	4	2	D	1	191·91	189·56	8·2	1·8	8·10	45·0	·5013061	·5013224	−19	+ 289	+16	− 18	− 162	−10	·5013319	·5013338		
																Mean.....			·5013319	·5013321	·5013320	
" 18.....	5	3	R	1	193·76	192·11	7·9	2·2	10·90	41·1	·5012936	·5013048	−20	+ 172	+21	− 39	− 151	−10	·5013060	·5013060		
" 18-19...	6	3	R	1	193·06	191·50	8·0	1·7	11·70	41·5	·5012983	·5013089	−17	+ 138	+21	− 39	− 151	−10	·5013076	·5013070		
																Mean.....			·5013068	·5013065	·5013066	

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: MANITOU, MAN. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Internal Chronometer Bond No. 627	Coincidence Internal Chronometer Dent No. 56182	Arc Initial	Arc Final	Temperature	Pressure	Period Uncorrected Chronometer Bond No. 627	Period Uncorrected Chronometer Dent No. 56182	Corrections (7th Decimal Place) Arc	Temp.	Pressure	Rate Bond No. 627	Rate Dent No. 56182	Flexure	Period Corrected Chronometer Bond No. 627	Period Corrected Chronometer Dent No. 56182	Mean
1925																					
May 28.....	1	3	R	1	184·58	183·33	7·8	1·8	11·53	55·1	·5013581	·5013674	−17	+ 145	+ 7	− 44	− 131	−12	·5013660	·5013666	
" 28-29...	2	3	R	1	184·35	183·21	8·0	1·5	11·78	60·0	·5013598	·5013683	−16	+ 135	+ 3	− 44	− 131	−12	·5013664	·5013662	
																Mean.....			·5013662	·5013664	·5013663
" 29.....	3	3	R	1	184·25	182·86	8·0	1·8	12·30	50·6	·5013606	·5013709	−18	+ 113	+11	− 55	− 150	−12	·5013645	·5013653	
" 29-30...	4	3	R	1	183·67	182·43	8·0	1·5	12·91	54·8	·5013648	·5013741	−16	+ 88	+ 8	− 55	− 150	−12	·5013661	·5013659	
																Mean.....			·5013653	·5013656	·5013655
" 30.....	5	1	D	1	196·44	195·17	8·2	1·9	13·66	52·0	·5012759	·5012842	−19	+ 56	+11	− 48	− 137	−12	·5012747	·5012741	
" 30-31...	6	1	D	1	196·56	195·23	8·4	1·5	13·87	57·2	·5012751	·5012838	−18	+ 47	+ 6	− 48	− 137	−12	·5012838	·5012724	
																Mean.....			·5012736	·5012733	·5012735

STATION: MELITA, MANITOBA. OBSERVER: A. H. MILLER

1925																					
June 6.....	1	1	D	1	197·42	195·54	8·2	1·7	13·00	51·0	·5012696	·5012818	−18	+ 84	+11	− 8	− 121	−15	·5012750	·5012759	
" 6-7.....	2	1	D	1	197·46	195·85	7·9	1·5	12·96	52·0	·5012693	·5012798	−16	+ 86	+10	− 8	− 121	−15	·5012750	·5012742	
																Mean.....			·5012750	·5012750	·5012750
" 7.....	3	1	D	1	197·11	195·38	8·2	1·7	12·89	53·2	·5012716	·5012828	−18	+ 88	+ 9	− 17	− 133	−15	·5012763	·5012759	
" 7-8.....	4	1	D	1	197·35	195·51	8·0	1·7	12·67	54·2	·5012700	·5012820	−17	+ 98	+ 9	− 17	− 133	−15	·5012758	·5012762	
																Mean.....			·5012760	·5012760	·5012760

" 8.....	5	2	D	1	180·47	179·04	7·9	1·9	12·60	50·1	·5013891	·5014003	−18	+ 101	+12	+ 1	− 118	−15	·5013972	·5013965	
" 8-9.....	6	2	D	1	180·87	179·29	7·9	1·5	12·27	50·9	·5013860	·5013983	−16	+ 114	+11	+ 1	− 118	−15	·5013955	·5013959	
																Mean.....			·5013963	·5013962	·5013963

STATION: ESTEVAN, SASKATCHEWAN. OBSERVER: A. H. MILLER

1925																								
June 13.....	1	2	D	1	178·65	177·32	8·0	1·8	14·28	51·1	·5014033	·5014139	−18	+ 30	+12	− 17	− 126	− 9	·5014031	·5014028	
" 13-14...	2	2	D	1	178·72	177·34	8·2	1·5	14·22	55·3	·5014028	·5014137	−17	+ 33	+ 8	− 17	− 126	− 9	·5014026	·5014026	
																Mean.....			·5014028	·5014027	·5014028
" 14.....	3	2	D	1	178·73	177·30	7·8	1·5	14·29	60·6	·5014026	·5014140	−16	+ 30	+ 2	− 11	− 117	− 9	·5014022	·5014030	
" 14-15...	4	2	D	1	178·74	177·46	8·2	1·3	14·22	66·8	·5014025	·5014127	−16	+ 33	− 4	− 11	− 117	− 9	·5014018	·5014014	
																Mean.....			·5014020	·5014022	·5014021
" 15.....	5	3	R	1	182·13	180·69	8·0	1·9	14·84	49·4	·5013765	·5013873	−18	+ 7	+14	− 2	− 110	− 9	·5013757	·5013757	
" 15-16...	6	3	R	1	182·25	180·82	8·0	1·5	14·70	49·8	·5013755	·5013864	−16	+ 13	+13	− 2	− 110	− 9	·5013754	·5013755	
																Mean.....			·5013756	·5013756	·5013756
" 16.....	7	3	R	1	182·19	180·73	8·0	1·9	14·70	50·5	·5013760	·5013871	−18	+ 13	+13	+ 4	− 102	− 9	·5013763	·5013768	
" 16-17...	8	3	R	1	182·43	181·12	8·1	1·4	14·56	51·0	·5013741	·5013841	−16	+ 18	+12	+ 4	− 102	− 9	·5013750	·5013744	
																Mean.....			·5013756	·5013756	·5013756
" 17.....	9	1	D	1	195·18	193·69	8·3	2·0	14·65	47·1	·5012841	·5012941	−20	+ 15	+16	+ 4	− 96	− 9	·5012847	·5012847	
" 17-18...	10	1	D	1	195·29	193·79	8·2	1·8	14·74	47·6	·5012835	·5012934	−19	+ 11	+15	+ 4	− 96	− 9	·5012837	·5012836	
																Mean.....			·5012842	·5012842	·5012842

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: INDIAN HEAD, SASKATCHEWAN OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		Mean
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1925																					
June 23.....	1	3	R	1	187·03	185·13	7·8	1·8	13·77	48·7	·5013403	·5013540	−17	+ 52	+14	+ 31	− 100	−10	·5013473	·5013479	
" 23-24...	2	3	R	1	187·38	185·60	7·9	1·7	13·23	48·3	·5013377	·5013506	−17	+ 74	+14	+ 31	− 100	−10	·5013469	·5013467	
																Mean.....			·5013471	·5013473	·5013472
" 24.....	3	3	R	1	187·69	185·59	7·9	1·7	13·05	48·4	·5013356	·5013507	−17	+ 82	+14	+ 41	− 104	−10	·5013466	·5013472	
" 24-25...	4	3	R	1	187·60	185·70	7·7	1·6	13·02	48·7	·5013362	·5013499	−16	+ 83	+13	+ 41	− 104	−10	·5013473	·5013465	
																Mean.....			·5013470	·5013468	·5013469
" 25.....	5	1	D	1	201·18	199·18	7·9	1·9	13·14	52·7	·5012457	·5012583	−18	+ 78	+10	+ 36	− 93	−10	·5012553	·5012550	
" 25-26...	6	1	D	1	201·49	199·39	7·9	1·7	12·91	53·0	·5012439	·5012569	−17	+ 88	+10	+ 36	− 93	−10	·5012546	·5012547	
																Mean.....			·5012550	·5012548	·5012549

STATION: MOOSOMIN, SASKATCHEWAN. OBSERVER: A. H. MILLER

1925																					
June 30.....	1	1	D	1	198·30	196·44	8·1	2·0	14·96	47·0	·5012639	·5012759	−20	+ 2	+16	+ 16	− 104	− 9	·5012644	·5012644	
" 30-July 1.....	2	1	D	1	198·49	196·66	7·8	1·7	14·70	47·0	·5012626	·5012745	−17	+ 13	+16	+ 16	− 104	− 9	·5012645	·5012644	
																Mean.....			·5012645	·5012644	·5012644
July 1.....	3	1	D	1	198·65	196·78	8·0	1·9	14·61	47·8	·5012617	·5012737	−18	+ 16	+15	+ 21	− 95	− 9	·5012642	·5012646	
" 1-2....	4	1	D	1	198·79	197·00	7·9	1·7	14·50	48·9	·5012608	·5012723	−17	+ 21	+14	+ 21	− 95	− 9	·5012638	·5012637	
																Mean.....			·5012640	·5012641	·5012641

"	2.....	5	2	D	1	181·49	179·80	8·3	2·1	14·79	48·6	·5013813	·5013943	−21	+ 9	+14	+ 35	− 96	− 9	·5013841	·5013840	
"	2-3....	6	2	D	1	181·84	180·08	7·9	1·6	14·54	48·8	·5013786	·5013921	−17	+ 19	+14	+ 35	− 96	− 9	·5013828	·5013832	
																	Mean.....			·5013835	·5013836	·5013835

STATION: YORKTON, SASKATCHEWAN. OBSERVER: A. H. MILLER

	1925																							
July	9.....	1	2	D	1	184·87	183·57	8·0	1·5	15·86	53·9	·5013559	·5013656	−16	− 36	+ 9	+ 19	− 78	− 8	·5013527	·5013527	
"	9-10...	2	2	D	1	184·51	183·23	8·1	1·3	16·38	54·9	·5013586	·5013682	−16	− 58	+ 8	+ 19	− 78	− 8	·5013531	·5013530	
																	Mean.....			·5013529	·5013528	·5013529
"	10.....	3	2	D	1	184·77	183·12	8·1	1·6	16·65	55·1	·5013567	·5013690	−18	− 69	+ 8	+ 52	− 70	− 8	·5013532	·5013533	
"	10-11...	4	2	D	1	184·60	183·02	8·1	1·3	16·86	56·0	·5013580	·5013697	−16	− 78	+ 7	+ 52	− 70	− 8	·5013537	·5013532	
																	Mean.....			·5013534	·5013533	·5013533
"	11.....	5	3	R	1	187·96	186·42	7·5	1·8	17·16	49·5	·5013336	·5013447	−17	− 91	+13	+ 39	− 64	− 8	·5013272	·5013280	
"	11-12...	6	3	R	1	187·73	186·37	8·0	1·5	17·45	50·7	·5013353	·5013450	−16	− 103	+12	+ 39	− 64	− 8	·5013277	·5013271	
																	Mean.....			·5013274	·5013275	·5013275

STATION: ELBOW, SASKATCHEWAN. OBSERVER: A. H. MILLER

	1925																							
July	17.....	1	3	R	1	185·46	183·70	7·8	1·8	18·29	51·7	·5013517	·5013646	−17	− 138	+11	+ 38	− 84	− 9	·5013402	·5013409	
"	17-18...	2	3	R	1	184·95	183·48	8·1	1·5	18·68	52·7	·5013553	·5013663	−17	− 154	+11	+ 38	− 84	− 9	·5013422	·5013410	
																	Mean.....			·5013412	·5013410	·5013411
"	18.....	3	3	R	1	185·34	183·95	8·1	1·7	18·32	54·5	·5013525	·5013628	−18	− 139	+ 8	+ 49	− 57	− 9	·5013416	·5013413	
"	18-19...	4	3	R	1	185·65	184·12	8·1	1·7	17·75	56·3	·5013503	·5013615	−18	− 115	+ 7	+ 49	− 57	− 9	·5013417	·5013423	
																	Mean.....			·5013416	·5013418	·5013417
"	19.....	5	1	D	1	199·81	197·48	7·8	1·9	17·29	52·9	·5012544	·5012691	−18	− 96	+10	+ 72	− 78	− 9	·5012503	·5012500	
"	19-20...	6	1	D	1	199·98	197·64	8·5	1·7	17·10	53·9	·5012533	·5012681	−19	− 88	+ 9	+ 72	− 78	− 9	·5012498	·5012496	
																	Mean.....			·5012500	·5012498	·5012499

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: ELBOW, SASKATCHEWAN. OBSERVER: A. H. MILLER—*Concluded*

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)					Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond 627	Dent 56182	Flexure	Bond No. 627	Dent No. 56182	Mean
1925																					
July 20.....	7	1	D	1	200·06	198·15	7·8	1·7	16·99	54·9	·5012528	·5012649	−17	− 83	+ 8	+ 69	− 57	− 9	·5012496	·5012491	
" 20-21...	8	1	D	1	200·25	198·21	8·5	1·7	16·66	55·0	·5012516	·5012644	−19	− 70	+ 8	+ 69	− 57	− 9	·5012495	·5012497	
																Mean.	.....	....	·5012496	·5012494	·5012495
„ 21... ..	9	2	D	1	182·92	181·36	8·0	2·0	16·65	46·3	·5013705	·5013823	−19	− 69	+17	+ 60	− 57	− 9	·5013685	·5013686	
" 21-22...	10	2	D	1	182·93	181·36	8·1	1·6	16·68	47·1	·5013704	·5013823	−18	− 70	+16	+ 60	− 57	− 9	·5013683	·5013685	
																Mean.	.....	....	·5013684	·5013686	·5013685

STATION: SWIFT CURRENT, SASKATCHEWAN. OBSERVER: A. H. MILLER

1925																					
July 26.....	1	1	D	1	194·14	192·60	8·1	1·7	19·07	57·5	·5012911	·5013014	−18	− 171	+ 7	+ 54	− 49	− 9	·5012774	·5012774	
" 26-27...	2	1	D	1	194·13	192·63	8·2	1·4	19·03	61·2	·5012911	·5013012	−16	− 169	+ 3	+ 54	− 49	− 9	·5012774	·5012772	
																Mean.	.....	....	·5012774	·5012773	·5012774
" 27.....	3	2	D	1	177·84	176·48	8·3	2·0	19·00	47·9	·5014097	·5014206	−20	− 168	+15	+ 50	− 57	− 9	·5013965	·5013967	
" 27-28...	4	2	D	1	177·98	176·64	7·8	1·5	18·81	50·1	·5014086	·5014193	−16	− 160	+13	+ 50	− 57	− 9	·5013964	·5013964	
																Mean.	.....	....	·5013965	·5013965	·5013965
" 28.....	5	3	R	1	181·37	180·12	7·9	1·9	18·78	50·8	·5013822	·5013919	−18	− 158	+12	+ 57	− 44	− 9	·5013706	·5013702	
" 28-29...	6	3	R	1	181·45	180·15	8·1	1·5	18·61	54·8	·5013816	·5013916	−17	− 151	+ 9	+ 57	− 44	− 9	·5013705	·5013704	
																Mean.	.....	....	·5013705	·5013703	·5013704

STATION: BASSANO, ALBERTA OBSERVER: A. H. MILLER

1925																							
Aug. 2.....	1	1	D	1	193·86	192·10	8·2	1·9	20·40	46·5	·5012929	·5013048	−19	− 226	+17	+ 46	− 71	−12	·5012735	·5012737			
" 2-3.....	2	1	D	1	193·63	191·94	8·0	1·7	20·74	49·3	·5012945	·5013059	−17	− 241	+15	+ 46	− 71	−12	·5012736	·5012733			
																Mean.....			·5012735	·5012735	·5012735		
" 3.....	3	2	D	1	176·62	175·70	8·0	2·1	20·85	46·1	·5014194	·5014269	−20	− 245	+17	+ 19	− 93	−12	·5013953	·5013916			
" 3-4.....	4	2	D	1	177·54	175·81	8·0	1·5	20·69	47·9	·5014121	·5014260	−16	− 238	+16	+ 19	− 93	−12	·5013890	·5013917			
																Mean.....			·5013922	·5013916	·5013919		
" 4.....	5	2	D	1	177·68	175·80	8·0	1·8	20·59	50·4	·5014110	·5014261	−18	− 234	+14	+ 46	− 99	−12	·5013906	·5013912			
" 4-5.....	6	2	D	1	177·63	175·83	8·2	1·5	20·40	53·7	·5014114	·5014258	−17	− 226	+10	+ 46	− 99	−12	·5013915	·5013914			
																Mean.....			·5013910	·5013913	·5013912		

STATION: RED DEER, ALBERTA OBSERVER: A. H. MILLER

1925																							
Aug. 10.....	1	2	D	1	184·04	182·20	8·0	1·8	14·63	51·0	·5013621	·5013759	−18	+ 16	12	+ 56	− 81	−10	·5013677	·5013678			
" 10-11...	2	2	D	1	184·07	182·34	8·0	1·7	14·44	52·0	·5013620	·5013749	−17	+ 24	11	+ 56	− 81	−10	·5013684	·5013676			
																Mean.....			·5013680	·5013677	·5013679		
" 11.....	3	3	R	1	188·00	185·92	8·0	2·0	14·40	51·0	·5013333	·5013482	−19	+ 25	12	+ 68	− 71	−10	·5013409	·5013419			
" 11-12...	4	3	R	1	188·01	186·09	8·0	1·6	14·12	52·5	·5013332	·5013471	−17	+ 37	10	+ 68	− 71	−10	·5013420	·5013420			
																Mean.....			·5013415	·5013420	·5013417		
" 12.....	5	3	R	1	188·13	185·94	8·0	1·7	14·20	56·1	·5013324	·5013481	−17	+ 34	7	+ 74	− 79	−10	·5013412	·5013416			
" 12-13...	6	3	R	1	187·83	185·84	7·9	1·6	14·24	59·3	·5013346	·5013489	−17	+ 32	4	+ 74	− 79	−10	·5013429	·5013419			
																Mean.....			·5013420	·5013417	·5013419		

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: CORONATION, ALBERTA OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	Mean
1925																					
Aug. 18.....	1	3	R	1	187·16	185·48	8·1	2·0	16·43	44·5	·5013393	·5013515	−20	− 60	+18	+ 43	− 79	− 8	·5013366	·5013366	
" 18-19...	2	3	R	1	187·18	185·51	8·2	1·8	16·32	46·5	·5013391	·5013513	−19	− 55	+16	+ 43	− 79	− 8	·5013368	·5013368	
																Mean.....			·5013367	·5013367	·5013367
" 19.....	3	1	D	1	200·97	199·22	7·9	2·1	16·62	49·8	·5012471	·5012581	−20	− 68	+13	+ 52	− 50	− 8	·5012440	·5012448	
" 19-20...	4	1	D	1	200·71	199·20	8·1	1·6	16·81	50·5	·5012488	·5012582	−18	− 76	+13	+ 52	− 50	− 8	·5012451	·5012443	
																Mean.....			·5012445	·5012445	·5012445
" 20.....	5	1	D	1	200·64	198·82	7·8	1·8	17·02	52·0	·5012491	·5012606	−17	− 85	+11	+ 44	− 66	− 8	·5012436	·5012441	
" 20-21...	6	1	D	1	200·34	198·66	8·0	1·7	17·19	53·0	·5012510	·5012616	−17	− 92	+10	+ 44	− 66	− 8	·5012447	·5012443	
																Mean.....			·5012441	·5012442	·5012442

STATION: PARADISE MINE, BRITISH COLUMBIA OBSERVER: A. H. MILLER

1925																					
Sept. 7.....	1	1	D	1	188·43	184·28	7·7	1·8	7·54	47·6	·5013302	·5013604	−17	+ 313	+14	+ 215	− 88	−10	·5013817	·5013816	
" 7-8.....	2	1	D	1	188·07	183·88	8·0	1·8	7·79	48·9	·5013328	·5013633	−18	+ 302	+13	+ 215	− 88	−10	·5013830	·5013832	
																Mean.....			·5013824	·5013824	·5013824
" 8.....	3	2	D	1	172·69	168·88	8·1	1·8	8·55	47·0	·5014519	·5014847	−19	+ 270	+15	+ 239	− 94	−10	·5015014	·5015009	
" 8-9.....	4	2	D	1	172·47	168·59	8·2	1·9	8·72	47·0	·5014537	·5014873	−19	+ 263	+15	+ 239	− 94	−10	·5015025	·5015028	
																Mean.....			·5015020	·5015019	·5015019
" 9.....	5	2	D	1	172·44	168·80	8·0	1·7	8·45	47·4	·5014540	·5014855	−17	+ 274	+14	+ 207	− 109	−10	·5015008	·5015007	
" 9-10....	6	2	D	1	172·78	169·09	7·8	1·8	7·95	48·6	·5014512	·5014830	−15	+ 295	+13	+ 207	− 109	−10	·5015002	·5015004	
																Mean.....			·5015005	·5015006	·5015005

STATION: INVERMERE, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

1925																							
Sept. 14.....	1	1	D	1	194·60	190·88	7·8	1·7	15·73	50·0	·5012880	·5013132	−17	− 31	+13	+ 231	− 30	−10	·5013066	·5013057	
" 14-15...	2	1	D	1	194·47	190·46	7·8	1·7	15·94	50·5	·5012889	·5013161	−17	− 39	+12	+ 231	− 30	−10	·5013066	·5013077	
																Mean.	.....	....	·5013066	·5013067	·5013067
" 15.....	3	1	D	1	194·59	190·47	8·0	1·7	15·94	51·5	·5012880	·5013159	−17	− 39	+11	+ 252	− 39	−10	·5013077	·5013065	
" 15-16...	4	1	D	1	194·82	190·34	8·2	1·7	15·94	52·5	·5012866	·5013169	−18	− 39	+10	+ 252	− 39	−10	·5013061	·5013073	
																Mean.	.....	....	·5013069	·5013069	·5013069
" 16.....	5	2	D	1	178·60	174·68	8·0	1·9	15·91	48·5	·5014037	·5014353	−18	− 38	+14	+ 277	− 47	−10	·5014262	·5014254	
" 16-17...	6	2	D	1	178·72	174·63	8·0	1·8	15·78	49·3	·5014027	·5014357	−18	− 33	+14	+ 277	− 47	−10	·5014257	·5014263	
																Mean.	.....	....	·5014260	·5014259	·5014259
" 17.....	7	2	D	1	178·71	174·72	8·0	1·9	15·59	51·9	·5014029	·5014350	−18	− 25	+11	+ 280	− 54	−10	·5014267	·5014254	
" 17-18...	8	2	D	1	178·94	174·73	7·8	1·4	15·56	56·3	·5014010	·5014349	−15	− 23	+ 7	+ 280	− 54	−10	·5014249	·5014254	
																Mean.	.....	....	·5014258	·5014254	·5014256

STATION: VERNON, BRITISH COLUMBIA. OBSERVER, A. H. MILLER

1925																							
Sept. 27.....	1	1	D	1	198·49	193·82	8·0	1·7	19·05	56·3	·5012627	·5012932	−17	− 170	+ 8	+ 293	− 31	−10	·5012731	·5012712	
" 27-28...	2	1	D	1	199·12	193·80	8·2	1·5	18·95	59·0	·5012587	·5012933	−17	− 166	+ 5	+ 293	− 31	−10	·5012692	·5012714	
																Mean.	.....	....	·5012712	·5012713	·5012712
" 28.....	3	2	D	1	181·58	177·48	8·0	2·0	19·21	51·1	·5013807	·5014126	−19	− 176	+12	+ 286	− 35	−10	·5013900	·5013898	
" 28-29...	4	2	D	1	181·34	177·31	8·0	1·5	19·59	54·2	·5013824	·5014139	−16	− 192	+10	+ 286	− 35	−10	·5013902	·5013896	
																Mean.	.....	....	·5013901	·5013897	·5013899
" 29.....	5	2	D	1	181·28	177·42	8·1	1·4	19·36	57·0	·5013829	·5014130	−16	− 183	+ 7	+ 299	− 24	−10	·5013926	·5013904	
" 29-30...	6	2	D	1	182·16	177·73	8·2	1·6	18·61	60·0	·5013762	·5014105	−18	− 151	+ 4	+ 299	− 24	−10	·5013886	·5013906	
																Mean.	.....	....	·5013906	·5013905	·5013906

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: BARKERVILLE, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc.		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	Mean
1925																					
Oct. 6	1	1	D	1	214·41	207·17	8·0	1·8	1·82	51·0	·5011688	·5012097	−18	+ 552	+ 9	+ 397	− 40	−10	·5012618	·5012590	
" 6-7	2	1	D	1	215·33	207·17	8·0	1·7	1·72	51·1	·5011637	·5012097	−17	+ 556	+ 9	+ 397	− 40	−10	·5012572	·5012595	
																Mean.	.....	....	·5012595	·5012593	·5012594
" 7	3	1	D	1	214·47	206·75	8·2	1·8	2·24	54·2	·5011684	·5012121	−19	+ 535	+ 6	+ 394	− 47	−10	·5012590	·5012586	
" 7-8	4	1	D	1	213·51	205·72	8·2	1·6	3·08	57·8	·5011736	·5012182	−18	+ 499	+ 2	+ 394	− 47	−10	·5012603	·5012608	
																Mean.	.....	....	·5012597	·5012597	·5012597
" 8	5	1	D	1	212·01	205·12	8·3	1·8	3·93	61·3	·5011820	·5012218	−19	+ 464	− 1	+ 361	− 48	−10	·5012615	·5012604	
" 8-9	6	1	D	1	211·29	204·42	8·2	1·8	5·16	47·8	·5011860	·5012259	−19	+ 412	+13	+ 361	− 48	−10	·5012617	·5012607	
" 9	7	1	D	1	211·14	204·51	8·2	1·8	5·51	50·0	·5011868	·5012254	−19	+ 398	+11	+ 361	− 48	−10	·5012609	·5012586	
" 9-10	8	1	D	1	212·68	205·07	8·2	1·6	4·54	52·8	·5011782	·5012221	−18	+ 438	+ 8	+ 361	− 48	−10	·5012561	·5012591	
																Mean.	.....	....	·5012601	·5012597	·5012599
" 10	9	2	D	1	193·59	187·82	8·0	2·0	3·89	49·0	·5012948	·5013347	−19	+ 466	+12	+ 409	+ 2	−10	·5013806	·5013798	
" 10-11	10	2	D	1	194·72	188·73	8·1	1·6	2·76	49·0	·5012872	·5013282	−18	+ 513	+12	+ 409	+ 2	−10	·5013778	·5013781	
																Mean.	.....	....	·5013792	·5013790	·5013791

STATION: TYAUGHTON CREEK, LILLOOET DISTRICT, B.C. OBSERVER: A. H. MILLER

1925																					
Oct. 16-17	1	2	D	1	189·87	184·62	8·0	1·8	3·36	49·5	·5013202	·5013578	−15	+ 488	+11	+ 368	− 5	−11	·5014043	·5014046	·5014045
" 17	2	2	D	1	190·40	184·96	8·0	2·0	2·71	49·3	·5013165	·5013553	−19	+ 515	+11	+ 394	− 15	−11	·5014055	·5014034	
" 17-18	3	2	D	1	191·31	185·37	8·0	1·8	1·74	49·5	·5013102	·5013523	−16	+ 556	+10	+ 394	− 15	−11	·5014035	·5014047	
																Mean.	.....	....	·5014045	·5014041	·5014043

" 18.....	4	1	D	1	209·56	203·15	8·0	2·7	1·72	45·0	·5011959	·5012337	−23	+ 556	+15	+ 392	+ 9	−11	·5012888	·5012883				
" 18-19.....	5	1	D	1	209·36	202·85	8·1	1·5	2·80	45·8	·5011969	·5012355	−17	+ 511	+14	+ 392	+ 9	−11	·5012858	·5012861				
																Mean.....			·5012873	·5012872	·5012873			
" 19.....	6	1	D	1	208·38	202·28	7·9	2·2	3·72	48·0	·5012026	·5012391	−20	+ 473	+13	+ 369	− 5	−11	·5012850	·5012841				
" 19-20.....	7	1	D	1	207·30	201·08	7·9	1·5	5·14	49·0	·5012089	·5012464	−16	+ 413	+12	+ 369	− 5	−11	·5012856	·5012857				
																Mean.....			·5012853	·5012849	·5012851			

STATION: UNION BAY, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

1925																								
Oct. 26.....	1	1	D	1	210·47	205·56	8·2	1·8	11·10	49·4	·5011906	·5012191	−19	+ 163	+13	+ 320	+ 17	−10	·5012373	·5012355				
" 26-27.....	2	1	D	1	210·93	205·47	8·1	1·3	11·29	51·4	·5011880	·5012196	−16	+ 155	+11	+ 320	+ 17	−10	·5012340	·5012353				
																Mean.....			·5012357	·5012354	·5012355			
" 27.....	3	1	D	1	210·64	205·75	8·1	1·6	11·01	54·3	·5011897	·5012180	−18	+ 167	+ 8	+ 300	+ 13	−10	·5012344	·5012340				
" 27–28.....	4	1	D	1	210·35	205·41	8·2	1·5	11·34	57·5	·5011913	·5012200	−17	+ 153	+ 4	+ 300	+ 13	−10	·5012343	·5012343				
																Mean.....			·5012344	·5012342	·5012343			
" 28-29.....	5	2	D	1	190·79	186·57	7·5	1·2	11·83	49·2	·5013138	·5013436	−13	+ 133	+13	+ 306	+ 20	−10	·5013567	·5013579				
" 29.....	6	2	D	1	190·50	186·61	7·6	2·2	11·75	51·3	·5013158	·5013434	−19	+ 136	+11	+ 306	+ 20	−10	·5013582	·5013572				
																Mean.....			·5013575	·5013576	·5013575			
" 29-30.....	7	2	D	1	190·22	186·01	8·0	1·2	11·78	54·0	·5013178	·5013477	−14	+ 135	+ 8	+ 311	+ 1	−10	·5013608	·5013597				
" 30.....	8	2	D	1	191·36	186·65	7·6	2·0	11·06	56·5	·5013099	·5013430	−18	+ 165	+ 5	+ 311	+ 1	−10	·5013552	·5013573				
																Mean.....			·5013580	·5013585	·5013583			
" 30.....	9	3	R	1	194·50	190·43	7·9	1·5	10·87	47·0	·5012887	·5013164	−16	+ 173	+15	+ 324	+ 21	−10	·5013373	·5013347				
" 30-31.....	10	3	R	1	195·79	190·85	8·0	2·4	10·86	47·0	·5012801	·5013134	−21	+ 173	+15	+ 324	+ 21	−10	·5013282	·5013312				
																Mean.....			·5013328	·5013330	·5013329			

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: CLOVERDALE, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Internal Chronometer Bond No. 627	Coincidence Internal Chronometer Dent No. 56182	Arc Initial	Arc Final	Temperature	Pressure	Period Uncorrected Chronometer Bond No. 627	Period Uncorrected Chronometer Dent No. 56182	Corrections (7th Decimal Place) Arc	Temp.	Pressure	Rate Bond No. 627	Rate Dent No. 56182	Flexure	Period Corrected Chronometer Bond No. 627	Period Corrected Chronometer Dent No. 56182	Mean
1925																					
Nov. 6	1	3	R	1	194·95	190·91	8·0	1·9	6·00	44·9	·5012856	·5013129	−18	+ 377	+16	+ 383	+ 84	−10	·5013604	·5013578	
" 6-7	2	3	R	1	197·53	192·01	8·0	1·7	5·13	46·0	·5012688	·5013054	−17	+ 414	+15	+ 383	+ 84	−10	·5013473	·5013540	
" 7	3	3	R	1	196·76	192·14	8·0	1·7	4·62	48·5	·5012738	·5013045	−17	+ 435	+12	+ 383	+ 84	−10	·5013541	·5013549	
7-8	4	3	R	1	195·42	191·00	7·7	1·7	5·78	52·0	·5012826	·5013123	−16	+ 386	+ 9	+ 383	+ 84	−10	·5013578	·5013576	
" 8	5	3	R	1	193·85	190·46	7·9	1·9	6·79	55·0	·5012930	·5013161	−18	+ 344	+ 6	+ 383	+ 84	−10	·5013635	·5013567	
																Mean			·5013566	·5013562	·5013564
" 8-9	6	3	R	1	193·70	190·32	8·5	1·4	7·48	58·0	·5012940	·5013171	−17	+ 315	+ 4	+ 310	+ 83	−10	·5013542	·5013546	·5013544

STATION: OTTAWA, ONTARIO. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Internal Chronometer Bond No. 627	Coincidence Internal Chronometer Dent No. 56182	Arc Initial	Arc Final	Temperature	Pressure	Period Uncorrected Chronometer Bond No. 627	Period Uncorrected Chronometer Dent No. 56182	Corrections (7th Decimal Place) Arc	Temp.	Pressure	Rate Bond No. 627	Rate Dent No. 56182	Flexure	Period Corrected Chronometer Bond No. 627	Period Corrected Chronometer Dent No. 56182	Mean
1925																					
Dec. 4-5	1	1	D	1	189·88	185·99	8·2	1·9	15·18	47·0	·5013202	·5013478	−19	− 8	+16	+ 268	− 28	− 9	·5013450	·5013430	
" 5	2	1	D	1	190·42	186·06	8·1	1·5	15·05	47·4	·5013164	·5013473	−17	− 2	+16	+ 268	− 28	− 9	·5013420	·5013433	
																Mean			·5013435	·5013432	·5013433
" 5-6	3	1	D	1	190·10	185·94	8·2	1·8	15·01	48·3	·5013186	·5013482	−19	0	+15	+ 287	− 26	− 9	·5013460	·5013443	
" 6	4	1	D	1	190·92	186·24	7·9	1·5	14·85	49·1	·5013129	·5013460	−16	+ 6	+14	+ 287	− 26	− 9	·5013411	·5013429	
																Mean			·5013436	·5013436	·5013436
" 6-7	5	2	D	1	174·86	171·01	8·0	2·0	14·72	45·0	·5014338	·5014662	−19	+ 12	+18	+ 313	− 27	− 9	·5014653	·5014637	
" 7	6	2	D	1	175·51	171·30	8·1	1·7	14·42	45·1	·5014286	·5014637	−18	+ 24	+17	+ 313	− 27	− 9	·5014613	·5014624	
																Mean			·5014633	·5014631	·5014632
" 7-8	7	2	D	1	175·73	171·48	7·9	1·9	14·23	45·3	·5014267	·5014622	−18	+ 32	+17	+ 340	− 20	− 9	·5014629	·5014624	
" 8	8	2	D	1	176·09	171·54	8·0	1·5	14·03	45·6	·5014238	·5014617	−16	+ 41	+16	+ 340	− 20	− 9	·5014610	·5014629	
" 8-9	9	2	D	1	175·72	171·54	8·2	2·0	13·75	46·5	·5014268	·5014616	−20	+ 52	+15	+ 340	− 20	− 9	·5014646	·5014634	
																Mean			·5014628	·5014632	·5014630

" 9.....	10	3	R	1	179·27	174·71	7·5	1·7	13·62	46·4	·5013985	·5014350	−16	+ 58	+16	+ 321	− 28	− 9	·5014355	·5014371						
" 9-10.....	11	3	R	1	178·91	174·68	8·0	1·9	13·42	47·1	·5014612	·5014353	−18	+ 66	+15	+ 321	− 28	− 9	·5014387	·5014379						
																Mean.....			·5014371	·5014375	·5014373					
" 10.....	12	3	R	1	179·47	174·83	8·0	1·5	13·19	47·6	·5013968	·5014341	−16	+ 76	+14	+ 328	− 33	− 9	·5014361	·5014373						
" 10-11.....	13	3	R	1	179·12	174·76	8·0	1·9	13·15	49·0	·5013997	·5014346	−18	+ 78	+13	+ 328	− 33	− 9	·5014389	·5014377						
																Mean.....			·5014375	·5014375	·5014375					

STATION: OTTAWA, ONTARIO. OBSERVER: A. H. MILLER

1926																										
May 18.....	1	1	D	1	185·06	184·00	7·6	2·1	17·46	57·0	·5013546	·5013624	−19	− 103	+ 6	+ 28	− 52	− 9	·5013449	·5013447						
" 18.....	2	1	D	1	185·40	184·29	7·7	1·9	17·05	51·0	·5013521	·5013603	−17	− 86	+12	+ 28	− 52	− 9	·5013449	·5013451						
																Mean.....			·5013449	·5013449	·5013449					
" 19.....	3	1	D	1	185·39	184·21	7·6	2·0	17·16	51·2	·5013522	·5013608	−18	− 91	+12	+ 35	− 51	− 9	·5013451	·5013451						
" 19.....	4	1	D	1	185·47	184·35	7·8	2·0	16·89	58·1	·5013516	·5013598	−18	− 79	+ 6	+ 35	− 51	− 9	·5013451	·5013447						
																Mean.....			·5013451	·5013449	·5013450					
" 20-21.....	5	2	D	1	170·75	169·78	8·4	1·7	16·58	54·1	·5014684	·5014768	−19	− 66	+ 9	+ 31	− 50	− 9	·5014630	·5014633						
" 21.....	6	2	D	1	170·77	169·79	8·1	1·4	16·47	61·6	·5014683	·5014767	−16	− 62	+ 1	+ 31	− 50	− 9	·5014628	·5014631						
																Mean.....			·5014629	·5014632	·5014631					
" 21-22.....	7	2	D	1	170·81	169·91	8·2	1·8	16·52	50·2	·5014679	·5014757	−19	− 64	+13	+ 35	− 45	− 9	·5014635	·5014633						
" 22.....	8	2	D	1	170·80	169·94	8·2	2·1	16·52	48·1	·5014680	·5014754	−21	− 64	+15	+ 35	− 45	− 9	·5014636	·5014630						
																Mean.....			·5014636	·5014632	·5014634					
" 22-23.....	9	3	R	1	173·85	172·84	7·5	1·7	16·65	48·8	·5014422	·5014506	−16	− 69	+14	+ 33	− 50	− 9	·5014375	·5014376						
" 23.....	10	3	R	1	174·07	173·06	7·9	1·8	16·17	49·2	·5014403	·5014488	−18	− 49	+14	+ 33	− 50	− 9	·5014374	·5014376						
																Mean.....			·5014375	·5014376	·5014375					
" 23-24.....	11	3	R	1	174·18	173·16	8·7	1·8	15·93	50·9	·5014395	·5014479	−21	− 39	+12	+ 38	− 49	− 9	·5014376	·5014373						
" 24.....	12	3	R	1	174·20	173·24	8·0	2·5	15·74	53·0	·5014393	·5014473	−22	− 31	+10	+ 38	− 49	− 9	·5014379	·5014372						
																Mean.....			·5014378	·5014373	·5014375					

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: VICTORIA, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer						Rate		Chronometer		
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	Mean
1926																					
June 11	1	1	D	1	197·66	195·92	8·2	1·6	17·84	47·0	·5012680	·5012793	−18	− 119	+16	+ 40	− 73	− 9	·5012590	·5012590	
" 11-12	2	1	D	1	197·54	195·86	8·2	2·0	17·81	49·0	·5012688	·5012797	−20	− 118	+14	+ 40	− 73	− 9	·5012595	·5012591	
																Mean			·5012593	·5012591	·5012592
" 12	3	1	D	1	197·59	.....	8·2	1·7	17·78	52·0	·5012685	.....	−18	− 116	+11	+ 37	.....	− 9	·5012590	.....	
" 12-13	4	1	D	1	197·43	.....	8·3	1·3	17·82	56·0	·5012695	.....	−16	− 118	+ 7	+ 37	.....	− 9	·5012596	.....	
																Mean			·5012593	.....	·5012593
" 13	5	1	D	1	197·32	.....	7·8	1·4	17·97	60·5	·5012702	.....	−15	− 124	+ 3	+ 28	.....	− 9	·5012585	.....	
" 13-14	6	1	D	1	197·25	.....	7·9	1·8	18·00	49·5	·5012707	.....	−18	− 126	+13	+ 28	.....	− 9	·5012595	.....	
																Mean			·5012590	.....	·5012590
" 14	7	2	D	1	180·65	179·77	8·2	1·8	17·90	48·1	·5013877	·5013945	−19	− 122	+15	+ 26	− 37	− 9	·5013768	·5013773	
" 14-15	8	2	D	1	180·63	179·78	8·3	1·9	17·79	50·5	·5013878	·5013945	−19	− 117	+12	+ 26	− 37	− 9	·5013771	·5013775	
																Mean			·5013770	·5013774	·5013772
" 15	9	2	D	1	180·63	.....	7·8	1·4	17·52	53·6	·5013879	.....	−15	− 106	+ 9	+ 12	.....	− 9	·5013770	.....	
" 15-16	10	2	D	1	180·75	.....	8·1	1·1	17·39	57·6	·5013870	.....	−15	− 100	+ 6	+ 12	.....	− 9	·5013764	.....	
																Mean			·5013767	.....	·5013767
" 19	11	3	R	1	184·47	183·47	7·7	1·9	17·03	59·0	·5013589	·5013663	−17	− 85	+ 5	+ 25	− 57	− 9	·5013508	·5013500	·5013504
" 19-20	12	3	R	1	184·72	183·74	8·2	1·4	16·96	48·5	·5013570	·5013643	−16	− 82	+14	+ 49	− 20	− 9	·5013526	·5013530	·5013528
" 20	13	3	R	1	184·52	183·66	8·0	2·1	16·90	53·6	·5013586	·5013649	−20	− 80	+ 9	+ 37	− 29	− 9	·5013523	·5013520	·5013522

STATION: BANFIELD, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

1926																							
June 25	1	2	D	1	181·76	180·60	8·0	1·8	17·67	49·8	·5013792	·5013881	−18	− 112	+13	+ 50	− 43	−10	·5013715	·5013711			
" 25-26	2	2	D	1	182·08	180·84	8·1	1·5	17·21	53·0	·5013769	·5013863	−17	− 98	+10	+ 50	− 43	−10	·5013709	·5013710			
																Mean.			·5013712	·5013711	·5013711		
" 26	3	2	D	1	182·41	.....	7·9	1·2	16·60	56·1	·5013744	.....	−14	− 67	+ 7	+ 47	.....	−10	·5013707	.....			
" 26-27	4	2	D	1	182·33	.....	8·0	1·8	16·57	60·0	·5013749	.....	−18	− 66	+ 4	+ 47	.....	−10	·5013706	.....			
																Mean.			·5013707	.....	·5013707		
" 27	5	3	R	1	185·86	185·08	7·5	1·9	16·58	49·3	·5013487	·5013544	−17	− 66	+14	+ 44	− 14	−10	·5013452	·5013451			
" 27-28	6	3	R	1	186·02	185·26	8·0	1·6	16·50	54·4	·5013476	·5013531	−17	− 63	+ 9	+ 44	− 14	−10	·5013439	·5013436			
																Mean.			·5013446	·5013444	·5013445		
" 28	7	3	R	1	185·46	184·79	8·0	1·7	16·95	60·8	·5013517	·5013566	−17	− 82	+ 3	+ 34	− 20	−10	·5013445	·5013440			
" 28-29	8	3	R	1	185·79	185·09	8·3	1·8	16·66	49·6	·5013493	·5013544	−19	− 70	+13	+ 34	− 20	−10	·5013441	·5013438			
																Mean.			·5013443	·5013439	·5013441		

STATION: NOOTKA, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

1926																							
July 7	1	3	R	1	188·27	187·08	8·0	2·1	15·66	48·3	·5013314	·5013400	−20	− 28	+15	+ 56	− 34	−13	·5013324	·5013320			
" 7-8	2	3	R	1	188·44	187·10	7·9	1·7	15·49	53·1	·5013302	·5013398	−17	− 21	+10	+ 56	− 34	−13	·5013317	·5013323			
																Mean.			·5013321	·5013322	·5013321		
" 8	3	3	R	1	188·34	186·78	8·1	1·7	15·51	58·4	·5013309	·5013420	−18	− 21	+ 5	+ 60	− 55	−13	·5013322	·5013318			
" 8-9	4	3	R	1	188·25	186·61	8·1	1·4	15·83	63·6	·5013315	·5013433	−16	− 35	0	+ 60	− 55	−13	·5013311	·5013314			
																Mean.			·5013317	·5013316	·5013316		
" 9	5	2	D	1	184·23	182·81	7·9	2·0	16·25	46·8	·5013607	·5013713	−19	− 52	+16	+ 55	− 51	−13	·5013594	·5013594			
" 9-10	6	2	D	1	184·29	182·88	8·2	1·8	16·26	54·4	·5013602	·5013708	−19	− 53	+ 9	+ 55	− 51	−13	·5013581	·5013581			
																Mean.			·5013588	·5013588	·5013588		
" 10	7	2	D	1	184·39	183·03	8·0	2·0	16·44	43·0	·5013595	·5013697	−19	− 60	+16	+ 59	− 40	−13	·5013578	·5013581			
" 10-11	8	2	D	1	184·18	182·89	8·0	1·6	16·51	54·0	·5013611	·5013707	−17	− 63	+ 9	+ 59	− 40	−13	·5013586	·5013583			
																Mean.			·5013582	·5013582	·5013582		

TABLE VII—*Continued*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: QUATSINO, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	Mean
1926																					
July 20	1	2	D	1	188·58	187·30	8·0	1·9	15·70	49·3	·5013292	·5013383	−18	− 29	+14	+ 79	− 5	−11	·5013327	·5013334	
" 20-21	2	2	D	1	188·22	187·12	7·8	1·8	15·89	49·4	·5013318	·5013396	−17	− 37	+14	+ 79	− 5	−11	·5013346	·5013340	
																Mean			·5013337	·5013337	·5013337
" 21	3	2	D	1	188·50	187·22	8·0	1·9	15·92	49·6	·5013298	·5013389	−18	− 39	+13	+ 88	− 2	−11	·5013331	·5013332	
" 21-22	4	2	D	1	187·91	186·76	8·4	1·9	16·58	50·7	·5013340	·5013422	−20	− 66	+12	+ 88	− 2	−11	·5013343	·5013335	
																Mean			·5013337	·5013334	·5013335
" 22	5	3	R	1	192·25	190·91	7·7	1·9	15·91	47·8	·5013038	·5013130	−17	− 38	+15	+ 88	− 3	−11	·5013075	·5013076	
" 22-23	6	3	R	1	192·65	191·31	8·0	1·9	15·32	48·0	·5013011	·5013102	−18	− 13	+15	+ 88	− 3	−11	·5013072	·5013072	
																Mean			·5013074	·5013074	·5013074
" 23	7	3	R	1	192·84	191·54	8·0	2·0	15·01	49·1	·5012998	·5013086	−19	0	+14	+ 97	+ 15	−11	·5013079	·5013085	
" 23-24	8	3	R	1	192·57	191·38	8·1	1·8	15·21	51·9	·5013016	·5013098	−18	− 9	+11	+ 97	+ 15	−11	·5013086	·5013086	
																Mean			·5013083	·5013086	·5013084

STATION: PRINCE RUPERT, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

1926																					
Aug. 6	1	3	R	1	204·79	204·04	8·2	1·9	15·69	49·3	·5012238	·5012283	−19	− 29	+14	+ 92	+ 52	− 9	·5012287	·5012292	
" 6-7	2	3	R	1	204·74	204·03	8·1	1·9	15·76	52·0	·5012240	·5012283	−19	− 32	+11	+ 92	+ 52	− 9	·5012283	·5012286	
																Mean			·5012285	·5012289	·5012287

" 7	3	2	D	1	200·50	199·68	7·9	2·1	15·72	43·0	·5012500	·5012551	−20	− 30	+20	+ 85	+ 30	− 9	·5012546	·5012542	
" 7-8	4	2	D	1	200·58	199·73	8·2	2·0	15·63	43·0	·5012495	·5012548	−20	− 26	+20	+ 85	+ 30	− 9	·5012545	·5012543	
																Mean.			·5012546	·5012543	·5012544
" 8	5	2	D	1	200·68	199·42	7·8	2·4	15·60	43·0	·5012489	·5012568	−20	− 25	+20	+ 91	+ 8	− 9	·5012546	·5012542	·5012544

STATION: STEWART, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

1926																									
Aug. 13	1	2	D	1	199·44	198·56	8·2	1·6	18·07	52·0	·5012567	·5012623	−18	− 129	+11	+ 78	+ 16	− 9	·5012500	·5012494	
" 13-14	2	2	D	1	199·41	198·36	8·0	1·7	18·06	53·5	·5012568	·5012636	−17	− 128	+ 9	+ 78	+ 16	− 9	·5012501	·5012507	
																Mean.			·5012501	·5012501	·5012501
" 14	3	2	D	1	199·78	198·87	8·0	1·6	17·82	53·8	·5012545	·5012603	−17	− 118	+ 9	+ 89	+ 27	− 9	·5012499	·5012495	
" 14-15	4	2	D	1	199·87	198·87	8·2	1·8	17·78	55·0	·5012540	·5012603	−19	− 116	+ 8	+ 89	+ 27	− 9	·5012493	·5012494	
																Mean.			·5012496	·5012495	·5012495
" 15	5	3	R	1	203·80	201·98	8·0	1·8	18·00	49·0	·5012297	·5012408	−18	− 126	+14	+ 99	− 2	− 9	·5012257	·5012267	
" 15-16	6	3	R	1	204·38	202·44	8·0	2·0	17·21	49·5	·5012262	·5012380	−19	− 93	+13	+ 99	− 2	− 9	·5012253	·5012270	
" 16	7	3	R	1	204·78	203·52	7·9	1·6	16·84	51·0	·5012238	·5012314	−17	− 77	+12	+ 99	− 2	− 9	·5012246	·5012221	
" 16-17	8	3	R	1	204·18	202·81	8·0	2·0	17·52	51·8	·5012274	·5012358	−19	− 106	+11	+ 99	− 2	− 9	·5012250	·5012233	
" 17	9	3	R	1	204·66	202·91	8·1	1·4	17·04	53·0	·5012245	·5012351	−16	− 85	+10	+ 99	− 2	− 9	·5012244	·5012249	
" 17-18	10	3	R	1	205·07	203·23	7·7	1·9	16·58	53·7	·5012221	·5012332	−17	− 66	+ 9	+ 99	− 2	− 9	·5012237	·5012247	
																Mean.			·5012248	·5012248	·5012248
" 18	11	3	R	1	205·06	203·51	8·1	1·5	16·18	54·7	·5012221	·5012315	−17	− 49	+ 8	+ 93	+ 3	− 9	·5012247	·5012251	
" 18-19	12	3	R	1	205·27	203·80	8·0	1·6	15·88	56·8	·5012209	·5012297	−17	− 37	+ 6	+ 93	+ 3	− 9	·5012245	·5012243	
" 19	13	3	R	1	205·43	203·98	8·3	2·0	15·49	58·5	·5012199	·5012286	−20	− 21	+ 4	+ 93	+ 3	− 9	·5012246	·5012243	
																Mean.			·5012246	·5012246	·5012246
" 19-20	14	3	R	1	205·46	203·96	8·4	1·2	15·52	61·0	·5012198	·5012287	−16	− 22	+ 2	+ 86	− 8	− 9	·5012239	·5012234	·5012237
" 20	15	3	R	1	206·14	204·53	7·7	2·0	14·78	63·4	·5012157	·5012253	−18	+ 9	0	+ 104	+ 17	− 9	·5012243	·5012252	·5012248

TABLE VII—*Concluded*

PENDULUM OBSERVATIONS AND REDUCTIONS

STATION: MASSETT, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

Date	Swing number	Pendulum	Position	Knife-edge	Coincidence Interval		Arc		Temperature	Pressure	Period Uncorrected		Corrections (7th Decimal Place)						Period Corrected		
					Chronometer						Chronometer					Rate			Chronometer		Mean
					Bond No. 627	Dent No. 56182	Initial	Final			Bond No. 627	Dent No. 56182	Arc	Temp.	Pressure	Bond No. 627	Dent No. 56182	Flexure	Bond No. 627	Dent No. 56182	
1926																					
Aug. 27	1	3	R	1	206·83	204·90	8·0	2·4	13·93	43·1	·5012116	·5012231	−21	+ 45	+19	+ 132	+ 15	−11	·5012280	·5012278	·5012279
" 27-28	2	3	R	1	206·66	204·81	8·4	1·8	14·37	43·6	·5012126	·5012236	−20	+ 26	+18	+ 137	+ 24	−11	·5012276	·5012273	
" 28	3	3	R	1	206·22	204·22	8·2	2·2	14·70	46·0	·5012153	·5012272	−21	+ 13	+17	+ 137	+ 24	−11	·5012288	·5012294	
																Mean			·5012282	·5012284	·5012283
" 28-29	4	3	R	1	206·39	204·46	8·1	1·5	14·50	49·6	·5012143	·5012257	−17	+ 21	+13	+ 138	+ 19	−11	·5012287	·5012282	·5012285
" 29	5	2	D	1	201·32	200·58	8·3	2·5	14·31	48·6	·5012449	·5012495	−23	+ 29	+14	+ 95	+ 43	−11	·5012553	·5012547	·5012550
" 29-30	6	2	D	1	201·65	200·80	8·0	1·4	14·09	49·2	·5012428	·5012481	−15	+ 38	+14	+ 97	+ 42	−11	·5012551	·5012549	·5012550

STATION: OCEAN FALLS, BRITISH COLUMBIA. OBSERVER: A. H. MILLER

1926																					
Sept. 5	1	2	D	1	191·70	190·31	8·1	2·4	17·42	46·0	·5013075	·5013171	−22	− 101	+17	+ 102	+ 11	− 8	·5013063	·5013068	·5013066
" 5-6	2	2	D	1	191·60	190·23	8·1	1·4	17·75	49·0	·5013082	·5013177	−16	− 115	+14	+ 98	+ 1	− 8	·5013055	·5013053	·5013054
" 6	3	2	D	1	191·30	190·46	8·2	2·2	17·29	52·0	·5013067	·5013161	−21	− 96	+11	+ 107	+ 15	− 8	·5013060	·5013062	·5013061
" 6-7	4	2	D	1	191·53	190·03	8·0	1·3	17·68	55·0	·5013087	·5013191	−15	− 112	+ 8	+ 126	+ 24	− 8	·5013086	·5013088	·5013087
" 7	5	3	R	1	195·78	194·34	8·0	2·3	17·41	46·8	·5012802	·5012897	−21	− 101	+16	+ 104	+ 3	− 8	·5012792	·5012786	·5012789
" 7-8	6	3	R	1	195·81	194·50	8·1	1·7	17·29	49·5	·5012800	·5012887	−18	− 96	+13	+ 103	+ 22	− 8	·5012799	·5012801	·5012800

STATION: VICTORIA, BRITISH COLUMBIA. OBSERVER, A. H. MILLER

1926																							
Sept. 16.....	1	2	D	1	181·51	180·53	8·0	2·2	17·45	50·0	·5013811	·5013887	−20	− 103	+13	+ 97	+ 17	− 9	·5013789	·5013785	·5013787
" 16-17.....	2	2	D	1	181·56	180·61	8·1	1·5	17·54	51·5	·5013808	·5013880	−17	− 106	+11	+ 77	0	− 9	·5013764	·5013759	·5013762
" 17.....	3	3	R	1	185·02	184·17	7·6	2·1	17·53	46·5	·5013549	·5013611	−19	− 106	+16	+ 94	+ 32	− 9	·5013525	·5013525	
" 17-18.....	4	3	R	1	184·85	184·00	8·1	1·9	17·71	47·3	·5013561	·5013624	−19	− 114	+16	+ 94	+ 32	− 9	·5013529	·5013530	
																Mean.....			·5013527	·5013528	·5013527

STATION: OTTAWA, ONTARIO. OBSERVER: A. H. MILLER

1927																							
Jan. 10-11.....	1	1	D	1	187·36	186·04	7·7	1·6	16·28	55·5	·5013379	·5013474	−16	− 54	+ 7	+ 96	+ 3	− 9	·5013403	·5013405	
" 11.....	2	1	D	1	188·55	187·24	7·9	1·5	14·22	66·0	·5013294	·5013387	−16	+ 33	− 3	+ 96	+ 3	− 9	·5013395	·5013395	
																Mean.....			·5013399	·5013400	·5013400
" 11-12.....	3	1	D	1	189·56	187·80	8·0	1·9	13·22	46·5	·5013224	·5013348	−18	+ 75	+15	+ 119	0	− 9	·5013406	·5013411	
" 12.....	4	1	D	1	190·06	188·41	8·0	1·8	12·49	46·5	·5013189	·5013305	−18	+ 105	+15	+ 119	0	− 9	·5013401	·5013398	
																Mean.....			·5013404	·5013405	·5013404
" 12-13.....	5	2	D	1	173·88	172·63	8·0	1·9	12·39	46·0	·5014420	·5014524	−18	+ 109	+16	+ 95	− 6	− 9	·5014613	·5014616	
" 13.....	6	2	D	1	173·97	172·79	7·8	1·7	12·24	46·0	·5014412	·5014510	−17	+ 116	+16	+ 95	− 6	− 9	·5014613	·5014610	
																Mean.....			·5014613	·5014613	·5014613
" 13-14.....	7	2	D	1	173·93	172·86	8·0	1·7	12·19	46·0	·5014416	·5014505	−17	+ 118	+16	+ 95	+ 1	− 9	·5014619	·5014614	
" 14.....	8	2	D	1	173·98	172·91	8·0	1·7	12·09	46·0	·5014411	·5014500	−17	+ 122	+16	+ 95	+ 1	− 9	·5014618	·5014613	
																Mean.....			·5014619	·5014614	·5014616
" 14-15.....	9	3	R	1	177·30	175·95	7·7	1·7	12·00	52·0	·5014140	·5014249	−16	+ 126	+10	+ 101	− 5	− 9	·5014352	·5014355	
" 15.....	10	3	R	1	177·59	176·28	8·0	1·7	11·57	52·0	·5014117	·5014222	−17	+ 144	+10	+ 101	− 5	− 9	·5014346	·5014345	
																Mean.....			·5014349	·5014350	·5014350
" 15-16.....	11	3	R	1	177·60	176·40	8·2	1·8	11·35	52·0	·5014116	·5014213	−19	+ 153	+10	+ 105	+ 12	− 9	·5014356	·5014360	
" 16.....	12	3	R	1	177·94	176·71	7·7	1·5	11·06	52·0	·5014089	·5014187	−15	+ 165	+10	+ 105	+ 12	− 9	·5014345	·5014350	
																Mean.....			·5014351	·5014355	·5014353

TABLE VIII

AVERAGE ELEVATIONS AND CORRECTIONS FOR TOPOGRAPHY AND COMPENSATION FOR SEPARATE ZONES

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Winnipeg, Manitoba, No. 31				Brandon, Manitoba, No. 32			
A	754	+ 2	0	+ 2	1,216	+ 2	0	+ 2
B	765	+ 58	0	+ 58	1,225	+ 63	0	+ 63
C	765	+ 84	0	+ 84	1,235	+110	0	+110
D	764	+ 56	0	+ 56	1,235	+108	0	+108
E	758	+ 22	0	+ 22	1,230	+ 58	0	+ 58
F	757	+ 9	0	+ 9	1,240	+ 22	0	+ 22
G	758	0	0	0	1,262	+ 6	0	+ 6
H	762	0	0	0	1,278	+ 9	− 9	0
I	764	0	0	0	1,296	+ 12	− 12	0
J	770	0	− 12	− 12	1,308	0	− 16	− 16
K	775	0	− 16	− 16	1,362	0	− 20	− 20
L	785	0	− 19	− 19	1,420	0	− 34	− 34
M	785	0	− 44	− 44	1,500	0	− 84	− 84
N	785	0	− 41	− 41	1,495	0	− 77	− 77
O	1,070	0	− 60	− 60	1,418	0	− 80	− 80
18				− 12				− 14
17				− 13				− 15
16				− 13				− 16
15				− 13				− 16
14				− 14				− 17
13				− 23				− 28*
12				− 18				− 24*
11				− 14				− 18*
10				− 11				− 13*
9				− 10				− 11*
8				− 9				− 7*
7				+ 4				+ 5*
6				+ 8				+ 8*
5				+ 10				+ 10*
4				+ 5				+ 5*
3				+ 3				+ 3*
2				+ 2				+ 2*
1				+ 1				+ 1*
Total				− 78				− 87

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Moosejaw, Saskatchewan, No. 33				Medicine Hat, Alberta, No. 34			
A	1,775	+ 2	0	+ 2	2,178	+ 2	0	+ 2
B	1,800	+ 59	0	+ 59	2,180	+ 68	0	+ 68
C	1,800	+134	0	+134	2,180	+141	0	+141
D	1,800	+166	0	+166	2,173	+191	0	+191
E	1,809	+112	0	+112	2,199	+159	− 8	+151
F	1,825	+ 57	− 6	+ 51	2,239	+ 82	− 10	+ 72
G	1,836	+ 28	− 8	+ 20	2,278	+ 45	− 12	+ 33
H	1,852	+ 16	− 16	0	2,306	+ 26	− 16	+ 10
I	1,870	+ 20	− 20	0	2,339	+ 20	− 20	0
J	1,902	0	− 16	− 16	2,374	+ 6	− 16	− 10
K	1,937	0	− 20	− 20	2,466	0	− 30	− 30
L	2,028	0	− 49	− 49	2,581	0	− 62	− 62
M	1,865	0	−115	−115	2,710	+ 6	−161	−155
N	2,086	0	−107	−107	2,710	0	−138	−138
O	2,120	0	−105	−105	2,850	0	−131	−131
18	.....	.....	.....	− 21	.....	.....	.....	− 31
17	.....	.....	.....	− 21*	.....	.....	.....	− 31
16	.....	.....	.....	− 21*	.....	.....	.....	− 31
15	.....	.....	.....	− 23*	.....	.....	.....	− 34
14	.....	.....	.....	− 22*	.....	.....	.....	− 35
13	.....	.....	.....	− 38*	.....	.....	.....	− 63
12	.....	.....	.....	− 33*	.....	.....	.....	− 41
11	.....	.....	.....	− 24*	.....	.....	.....	− 27
10	.....	.....	.....	− 16*	.....	.....	.....	− 18
9	.....	.....	.....	− 12*	.....	.....	.....	− 9
8	.....	.....	.....	− 2*	.....	.....	.....	+ 3*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 10*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			− 67				−141

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Calgary, Alberta, No. 35				Banff, Alberta, No. 36			
A	3,433	+ 2	0	+ 2	4,514	+ 2	0	+ 2
B	3,430	+ 66	0	+ 66	4,520	+ 68	0	+ 68
C	3,435	+156	0	+156	4,525	+160	0	+160
D	3,450	+259	− 6	+253	4,526	+288	− 6	+282
E	3,450	+266	− 8	+258	4,566	+343	− 8	+335
F	3,478	+165	− 10	+155	4,891	+242	− 13	+229
G	3,487	+ 84	− 12	+ 72	5,223	+129	− 20	+109
H	3,503	+ 48	− 16	+ 32	5,670	+ 80	− 28	+ 52
I	3,547	+ 60	− 40	+ 20	6,146	+ 51	− 52	− 1
J	3,580	+ 26	− 42	− 16	6,430	+ 38	− 67	− 29
K	3,584	+ 13	− 52	− 39	6,904	+ 25	−120	− 95
L	3,640	+ 16	− 88	− 72	7,250	+ 12	−173	−161
M	3,780	+ 10	−224	−214	6,770	+ 8	−390	−382
N	4,160	+ 6	−216	−210	5,760	+ 9	−298	−289
O	4,270	0	−207	−207	5,410	+ 1	−262	−261
18				− 43				− 47
17				− 44				− 48
16				− 43				− 48*
15				− 45				− 49*
14				− 41				− 50*
13				− 55				− 70*
12				− 37				− 36*
11				− 25				− 25*
10				− 15				− 13*
9				− 5				− 4*
8				+ 5*				+ 5*
7				+ 5*				+ 5*
6				+ 7*				+ 6*
5				+ 9*				+ 9*
4				+ 6*				+ 6*
3				+ 3*				+ 3*
2				+ 2*				+ 2*
1				+ 1*				+ 1*
	Total			− 59				−334

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Field, B.C., No. 37				Glacier, B.C., No. 38			
A	4,065	+ 2	0	+ 2	4,094	+ 2	0	+ 2
B	4,070	+ 64	0	+ 64	4,105	+ 66	0	+ 66
C	4,110	+160	0	+160	4,160	+157	0	+157
D	4,250	+270	− 6	+264	4,476	+266	− 6	+260
E	4,595	+294	− 8	+286	4,784	+288	− 8	+280
F	5,529	+166	− 18	+148	5,425	+173	− 15	+158
G	6,100	+ 83	− 23	+ 60	6,083	+ 76	− 22	+ 54
H	6,030	+ 44	− 30	+ 14	6,600	+ 36	− 34	+ 2
I	5,960	+ 35	− 50	− 15	6,575	+ 24	− 57	− 33
J	6,510	+ 32	− 72	− 40	6,200	+ 34	− 66	− 32
K	7,215	+ 9	−113	−104	6,140	+ 17	−102	− 85
L	7,000	+ 7	−163	−156	6,910	+ 5	−162	−157
M	6,970	+ 1	−403	−402	5,680	+ 7	−332	−325
N	6,850	+ 10	−365	−355	6,400	+ 13	−337	−324
O	5,440	0	−264	−264	5,640	0	−272	−272
18	.....	.....	.....	− 49	.....	.....	.....	− 49
17	.....	.....	.....	− 46	.....	.....	.....	− 48
16	.....	.....	.....	− 45	.....	.....	.....	− 47
15	.....	.....	.....	− 44	.....	.....	.....	− 42*
14	.....	.....	.....	− 42	.....	.....	.....	− 43*
13	.....	.....	.....	− 62	.....	.....	.....	− 61*
12	.....	.....	.....	− 35	.....	.....	.....	− 31*
11	.....	.....	.....	− 24	.....	.....	.....	− 20*
10	.....	.....	.....	− 11	.....	.....	.....	− 9*
9	.....	.....	.....	− 3*	.....	.....	.....	− 2*
8	.....	.....	.....	+ 5*	.....	.....	.....	+ 6*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
6	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
5	.....	.....	.....	+ 9*	.....	.....	.....	+ 9*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 7*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			− 662				−562

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Revelstoke, B.C., No. 39				Kamloops, B.C., No. 40			
A	1,484	+ 2	0	+ 2	1,155	+ 2	0	+ 2
B	1,497	+ 62	0	+ 62	1,160	+ 60	0	+ 60
C	1,499	+124	0	+124	1,160	+112	0	+112
D	1,573	+136	0	+136	1,171	+102	0	+102
E	1,720	+ 76	− 2	+ 74	1,225	+ 48	0	+ 48
F	1,870	+ 34	− 3	+ 31	1,325	+ 23	0	+ 23
G	2,160	+ 7	− 6	+ 1	1,633	+ 5	− 6	− 1
H	2,670	0	− 18	− 18	1,885	+ 8	− 12	− 4
I	3,530	− 12	− 31	− 43	2,385	− 6	− 19	− 25
J	4,528	− 7	− 52	− 59	2,640	0	− 28	− 28
K	4,985	− 27	− 84	−111	2,725	− 20	− 35	− 55
L	5,315	− 15	−126	−141	3,100	0	− 78	− 78
M	5,410	− 16	−313	−329	3,370	− 4	−200	−204
N	5,220	+ 8	−277	−269	3,390	+ 1	−176	−175
O	5,450	0	−266	−266	4,160	0	−204	−204
18	.....	.....	.....	− 56	.....	.....	.....	− 42
17	.....	.....	.....	− 53	.....	.....	.....	− 51
16	.....	.....	.....	− 47	.....	.....	.....	− 51
15	.....	.....	.....	− 42	.....	.....	.....	− 50
14	.....	.....	.....	− 42	.....	.....	.....	− 40*
13	.....	.....	.....	− 59*	.....	.....	.....	− 51*
12	.....	.....	.....	− 29*	.....	.....	.....	− 27*
11	.....	.....	.....	− 19*	.....	.....	.....	− 15*
10	.....	.....	.....	− 8*	.....	.....	.....	− 7*
9	.....	.....	.....	− 1*	.....	.....	.....	+ 2*
8	.....	.....	.....	+ 6*	.....	.....	.....	+ 7*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
6	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
5	.....	.....	.....	+ 9*	.....	.....	.....	+ 9*
4	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
Total				−1123				−719

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Vancouver, B.C., No. 42				Dauphin, Man., No. 52			
A	20	+ 2	0	+ 2	963	+ 2	0	+ 2
B	20	+ 4	0	+ 4	970	+ 62	0	+ 62
C	−18	− 2	0	− 2	970	+104	0	+104
D	−18	0	0	0	955	+ 78	0	+ 78
E	− 8	0	0	0	956	+ 40	0	+ 40
F	− 6	0	0	0	962	+ 10	0	+ 10
G	6	0	0	0	960	0	0	0
H	92	0	0	0	962	0	0	0
I	150	0	0	0	980	0	0	0
J	150	0	− 4	− 4	990	0	− 16	− 16
K	150	− 5	− 5	− 10	1,072	0	− 20	− 20
L	900	0	− 25	− 25	1,205	0	− 31	− 31
M	1,795	− 9	−108	−117	1,480	0	− 86	− 86
N	2,040	+ 3	−110	−107	1,390	0	− 72	− 72
O	2,750	0	−141	−141	1,203	0	− 69	− 69
18	.....	.....	.....	− 33	.....	.....	.....	− 12
17	.....	.....	.....	− 34	.....	.....	.....	− 13
16	.....	.....	.....	− 28	.....	.....	.....	− 13
15	.....	.....	.....	− 19	.....	.....	.....	− 13
14	.....	.....	.....	− 18	.....	.....	.....	− 16*
13	.....	.....	.....	− 31	.....	.....	.....	− 25*
12	.....	.....	.....	− 15	.....	.....	.....	− 20*
11	.....	.....	.....	− 8	.....	.....	.....	− 15*
10	.....	.....	.....	− 2	.....	.....	.....	− 13*
9	.....	.....	.....	+ 5	.....	.....	.....	− 10*
8	.....	.....	.....	+ 9	.....	.....	.....	− 7*
7	.....	.....	.....	+ 5	.....	.....	.....	+ 4*
6	.....	.....	.....	+ 7	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 9	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 7	.....	.....	.....	+ 6*
3	.....	.....	.....	+ 3	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1	.....	.....	.....	+ 1*
	Total.....			−540				− 122

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Swan River, Manitoba, No. 53				The Pas, Manitoba, No. 54			
A	1,107	+ 2	0	+ 2	872	+ 2	0	+ 2
B	1,115	+ 60	0	+ 60	880	+ 59	0	+ 59
C	1,115	+104	0	+104	880	+ 96	0	+ 96
D	1,115	+ 96	0	+ 96	863	+ 68	0	+ 68
E	1,123	+ 48	0	+ 48	868	+ 29	0	+ 29
F	1,105	+ 18	0	+ 18	875	+ 14	0	+ 14
G	1,121	+ 3	0	+ 3	875	0	0	0
H	1,122	+ 4	− 4	0	875	0	0	0
I	1,134	+ 5	− 5	0	875	0	0	0
J	1,145	0	− 16	− 16	863	0	− 14	− 14
K	1,226	0	− 20	− 20	863	0	− 17	− 17
L	1,412	0	− 34	− 34	863	0	− 21	− 21
M	1,650	0	− 95	− 95	900	0	− 50	− 50
N	1,345	0	− 68	− 68	868	0	− 42	− 42
O	1,263	0	− 71	− 71	1,090	0	− 61	− 61
18	.....	.....	.....	− 12	.....	.....	.....	− 12
17	.....	.....	.....	− 12	.....	.....	.....	− 12
16	.....	.....	.....	− 12	.....	.....	.....	− 12
15	.....	.....	.....	− 15*	.....	.....	.....	− 13
14	.....	.....	.....	− 15*	.....	.....	.....	− 13
13	.....	.....	.....	− 25*	.....	.....	.....	− 21
12	.....	.....	.....	− 19*	.....	.....	.....	− 14
11	.....	.....	.....	− 15*	.....	.....	.....	− 12
10	.....	.....	.....	− 13*	.....	.....	.....	− 13
9	.....	.....	.....	− 10*	.....	.....	.....	− 9
8	.....	.....	.....	− 6*	.....	.....	.....	− 6*
7	.....	.....	.....	+ 4*	.....	.....	.....	+ 4*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 6*
5	.....	.....	.....	+ 10*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
Total				− 93				− 41

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Prince Albert, Saskatchewan, No. 55				Saskatoon, Saskatchewan, No. 56			
A	1,398	+ 2	0	+ 2	1,629	+ 2	0	+ 2
B	1,405	+ 64	0	+ 64	1,635	+ 64	0	+ 64
C	1,405	+124	0	+124	1,650	+130	0	+130
D	1,400	+132	0	+132	1,650	+153	0	+153
E	1,419	+ 74	0	+ 74	1,630	+ 91	0	+ 91
F	1,430	+ 32	0	+ 32	1,632	+ 43	0	+ 43
G	1,450	+ 12	0	+ 12	1,635	+ 18	− 4	+ 14
H	1,460	+ 16	− 16	0	1,625	+ 16	− 16	0
I	1,480	+ 20	− 20	0	1,643	+ 20	− 20	0
J	1,483	0	− 16	− 16	1,675	0	− 16	− 16
K	1,494	0	− 20	− 20	1,683	0	− 20	− 20
L	1,527	0	− 37	− 37	1,690	0	− 41	− 41
M	1,540	0	− 86	− 86	1,700	0	− 95	− 95
N	1,560	0	− 83	− 83	1,694	0	− 86	− 86
O	1,643	0	− 90	− 90	1,765	0	− 94	− 94
18	.....	.....	.....	− 17	.....	.....	.....	− 19
17	.....	.....	.....	− 17	.....	.....	.....	− 19
16	.....	.....	.....	− 16	.....	.....	.....	− 20
15	.....	.....	.....	− 17	.....	.....	.....	− 21*
14	.....	.....	.....	− 18	.....	.....	.....	− 20*
13	.....	.....	.....	− 29*	.....	.....	.....	− 34*
12	.....	.....	.....	− 23*	.....	.....	.....	− 29*
11	.....	.....	.....	− 19*	.....	.....	.....	− 22*
10	.....	.....	.....	− 15*	.....	.....	.....	− 16*
9	.....	.....	.....	− 10*	.....	.....	.....	− 11*
8	.....	.....	.....	− 2*	.....	.....	.....	− 1*
7	.....	.....	.....	+ 4*	.....	.....	.....	+ 4*
6	.....	.....	.....	+ 6*	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 10*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
Total				− 42				− 33

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Vermilion, Alberta, No. 57				Edmonton, Alberta, No. 58			
A	2,015	+ 2	0	+ 2	2,197	+ 2	0	+ 2
B	2,020	+ 66	0	+ 66	2,200	+ 68	0	+ 68
C	1,983	+140	0	+140	2,200	+143	0	+143
D	1,977	+181	0	+181	2,238	+192	0	+192
E	1,978	+138	− 7	+131	2,131	+157	− 8	+149
F	1,995	+ 69	− 9	+ 60	2,125	+ 80	− 10	+ 70
G	2,015	+ 35	− 12	+ 23	2,150	+ 40	− 12	+ 28
H	2,052	+ 18	− 16	+ 2	2,170	+ 22	− 16	+ 6
I	2,079	+ 20	− 20	0	2,200	+ 20	− 20	0
J	2,070	+ 1	− 17	− 16	2,244	+ 4	− 14	− 10
K	2,080	0	− 22	− 22	2,278	0	− 26	− 26
L	2,130	0	− 51	− 51	2,295	0	− 55	− 55
M	2,106	+ 2	−116	−114	2,386	+ 5	−137	−132
N	2,090	0	−102	−102	2,420	0	−124	−124
O	2,190	0	−107	−107	2,530	0	−122	−122
18				− 23				− 26
17				− 23				− 28
16				− 23				− 30
15				− 22				− 32
14				− 28*				− 35
13				− 45*				− 51
12				− 27*				− 28
11				− 24*				− 23
10				− 15*				− 14
9				− 8*				− 5
8				+ 2*				+ 3*
7				+ 4*				+ 4*
6				+ 6*				+ 6*
5				+ 10*				+ 10*
4				+ 6 *				+ 6*
3				+ 3*				+ 3*
2				+ 3*				+ 3*
1				+ 1*				+ 1*
Total				− 10				− 47

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Grande Prairie, Alberta, No. 59				Kinuso, Alberta, No. 60			
A	2,154	+ 2	0	+ 2	1,922	+ 2	0	+ 2
B	2,160	+ 66	0	+ 66	1,928	+ 66	0	+ 66
C	2,160	+142	0	+142	1,930	+138	0	+138
D	2,160	+190	0	+190	1,930	+176	0	+176
E	2,160	+155	− 8	+147	1,930	+128	− 5	+123
F	2,183	+ 79	− 10	+ 69	1,950	+ 66	− 9	+ 57
G	2,198	+ 41	− 12	+ 29	1,950	+ 34	− 11	+ 23
H	2,194	+ 22	− 16	+ 6	1,953	+ 16	− 16	0
I	2,196	+ 20	− 20	0	1,956	+ 20	− 20	0
J	2,186	+ 3	− 19	− 16	1,985	+ 1	− 17	− 16
K	2,261	0	− 26	− 26	2,083	0	− 23	− 23
L	2,307	0	− 56	− 56	2,220	0	− 54	− 54
M	2,489	+ 6	−145	−139	2,570	+ 3	−156	−153
N	2,590	0	−131	−131	2,490	0	−125	−125
O	3,060	0	−151	−151	2,270	0	−115	−115
18				− 37				− 22
17				− 37				− 23
16				− 35				− 24
15				− 35				− 26
14				− 34				− 32
13				− 55				− 45*
12				− 37				− 31*
11				− 20				− 21*
10				− 5				− 10*
9				− 1				− 3*
8				+ 4*				+ 3*
7				+ 4*				+ 4*
6				+ 5*				+ 5*
5				+ 9*				+ 9*
4				+ 7*				+ 7*
3				+ 3*				+ 3*
2				+ 3*				+ 3*
1				+ 1*				+ 1*
	Total			−128				−103

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Lac la Biche, Alberta, No. 61				Waterways, Alberta, No. 62			
A	1,801	+ 2	0	+ 2	820	+ 2	0	+ 2
B	1,795	+ 65	0	+ 65	820	+ 61	0	+ 61
C	1,793	+136	0	+136	820	+ 90	0	+ 90
D	1,793	+167	0	+167	828	+ 62	0	+ 62
E	1,809	+111	0	+111	910	+ 27	0	+ 27
F	1,813	+ 55	− 5	+ 50	1,000	+ 10	0	+ 10
G	1,839	+ 28	− 9	+ 19	1,088	0	0	0
H	1,840	+ 16	− 16	0	1,162	+ 6	− 6	0
I	1,853	+ 20	− 20	0	1,190	+ 1	− 8	− 7
J	1,861	0	− 16	− 16	1,230	0	− 16	− 16
K	1,877	0	− 20	− 20	1,298	0	− 20	− 20
L	1,945	0	− 47	− 47	1,389	0	− 34	− 34
M	2,042	+ 1	−114	−113	1,650	0	− 93	− 93
N	2,100	0	−102	−102	1,612	0	− 85	− 85
O	2,114	0	−111	−111	1,810	0	− 95	− 95
18				− 21				− 18
17				− 21				− 17
16				− 21				− 16
15				− 21				− 16
14				− 27*				− 17
13				− 40*				− 28
12				− 25*				− 24
11				− 22*				− 21
10				− 15*				− 14
9				− 7*				− 7
8				+ 2*				+ 1
7				+ 4*				+ 3
6				+ 5*				+ 4
5				+ 10*				+ 10
4				+ 7*				+ 7
3				+ 3*				+ 4
2				+ 3*				+ 3
1				+ 1*				0
Total				− 44				−244

*These values have been interpolated from those obtained for neighbouring stations

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Edson, Alberta, No. 63				Jasper, Alberta, No. 64			
A	3,038	+ 2	0	+ 2	3,476	+ 2	0	+ 2
B	3,040	+ 68	0	+ 68	3,484	+ 67	0	+ 67
C	3,035	+152	0	+152	3,480	+156	0	+156
D	3,035	+242	− 1	+241	3,468	+258	− 6	+252
E	3,025	+234	− 8	+226	3,507	+270	− 8	+262
F	3,000	+130	− 10	+120	3,555	+166	− 10	+156
G	3,000	+ 72	− 12	+ 60	3,690	+ 79	− 12	+ 67
H	3,000	+ 48	− 16	+ 32	4,006	+ 48	− 18	+ 30
I	3,010	+ 25	− 22	+ 3	4,853	+ 28	− 43	− 15
J	3,080	+ 17	− 33	− 16	5,930	+ 19	− 64	− 45
K	3,160	+ 4	− 43	− 39	6,445	+ 2	−112	−110
L	3,330	+ 8	− 80	− 72	5,950	0	−144	−144
M	3,520	+ 5	−216	−211	6,660	− 1	−387	−388
N	3,510	+ 3	−184	−181	6,060	+ 11	−321	−310
O	4,270	0	−204	−204	5,395	+ 1	−262	−261
18	.....	.....	.....	− 45	.....	.....	.....	− 46
17	.....	.....	.....	− 41	.....	.....	.....	− 44
16	.....	.....	.....	− 40	.....	.....	.....	− 40
15	.....	.....	.....	− 39	.....	.....	.....	− 38
14	.....	.....	.....	− 35*	.....	.....	.....	− 35
13	.....	.....	.....	− 55*	.....	.....	.....	− 59
12	.....	.....	.....	− 31*	.....	.....	.....	− 32
11	.....	.....	.....	− 21*	.....	.....	.....	− 20
10	.....	.....	.....	− 10*	.....	.....	.....	− 9
9	.....	.....	.....	− 3*	.....	.....	.....	− 2*
8	.....	.....	.....	+ 4*	.....	.....	.....	+ 5*
7	.....	.....	.....	+ 4*	.....	.....	.....	+ 4*
6	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
5	.....	.....	.....	+ 9*	.....	.....	.....	+ 9*
4	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			−103				−569

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Mt. Olie, British Columbia, No. 65				Princeton, British Columbia, No. 66			
A	1,269	+ 2	0	+ 2	2,086	+ 2	0	+ 2
B	1,275	+ 60	0	+ 60	2,090	+ 68	0	+ 68
C	1,275	+120	0	+120	2,093	+142	0	+142
D	1,278	+119	0	+119	2,127	+184	0	+184
E	1,371	+ 64	0	+ 64	2,185	+152	− 8	+144
F	1,700	+ 26	− 5	+ 21	2,295	+ 79	− 10	+ 69
G	2,246	+ 8	− 10	− 2	2,470	+ 38	− 12	+ 26
H	2,394	+ 12	− 16	− 4	2,750	+ 19	− 16	+ 3
I	2,310	+ 2	− 22	− 20	2,920	+ 5	− 20	− 15
J	3,590	− 4	− 36	− 40	3,900	+ 16	− 42	− 26
K	3,100	− 20	− 50	− 70	4,550	− 18	− 71	− 89
L	3,200	0	− 84	− 84	5,400	− 8	−126	−134
M	3,260	0	−195	−195	4,830	− 6	−283	−289
N	3,330	0	−171	−171	3,140	+ 5	−164	−159
O	4,090	0	−198	−198	3,280	0	−159	−159
18				− 56				− 28
17				− 58				− 30
16				− 55				− 33
15				− 57				− 28
14				− 46				− 28
13				− 54				− 40*
12				− 29				− 21*
11				− 14				− 14*
10				− 7				− 6*
9				+ 1				+ 2*
8				+ 7				+ 8*
7				+ 5*				+ 5*
6				+ 6*				+ 6*
5				+ 9*				+ 9*
4				+ 7*				+ 7*
3				+ 3*				+ 3*
2				+ 3*				+ 2*
1				+ 1*				+ 1*
	Total			−732				−418

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Phoenix, British Columbia, No. 67				Nelson, British Columbia, No. 68			
A	4,537	+ 2	0	+ 2	1,823	+ 2	0	+ 2
B	4,541	+ 65	0	+ 65	1,825	+ 66	0	+ 66
C	4,515	+162	− 2	+160	1,829	+135	0	+135
D	4,620	+295	− 6	+289	1,834	+169	0	+169
E	4,713	+340	− 8	+332	1,925	+116	− 3	+113
F	4,345	+240	− 10	+230	2,390	+ 52	− 10	+ 42
G	3,942	+129	− 12	+117	3,000	+ 14	− 13	+ 1
H	3,520	+ 77	− 16	+ 61	3,740	− 9	− 20	− 29
I	3,510	+ 71	− 33	+ 38	4,255	− 17	− 36	− 53
J	3,300	+ 42	− 35	+ 7	4,560	+ 4	− 48	− 44
K	4,350	+ 25	− 65	− 40	5,115	− 21	− 87	−108
L	4,350	+ 12	−102	− 90	5,320	− 18	−119	−137
M	4,010	+ 22	−238	−216	4,800	− 12	−280	−292
N	3,800	+ 4	−199	−195	5,170	+ 12	−272	−260
O	4,050	0	−194	−194	4,850	0	−232	−232
18				− 40				− 46
17				− 40				− 50
16				− 43				− 51
15				− 47				− 37
14				− 39				− 39
13				− 56				− 57
12				− 29				− 36
11				− 20				− 22*
10				− 10				− 12*
9				+ 1				− 1*
8				+ 7*				+ 6*
7				+ 5*				+ 5*
6				+ 6*				+ 6*
5				+ 9*				+ 9*
4				+ 6*				+ 6*
3				+ 3*				+ 3*
2				+ 2*				+ 2*
1				+ 1*				+ 1*
Total				+282				−940

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Cranbrook, British Columbia, No. 69				Blairmore, Alberta, No. 70			
A	3,004	+ 2	0	+ 2	4,222	+ 2	0	+ 2
B	3,010	+ 66	0	+ 66	4,230	+ 66	0	+ 66
C	3,015	+152	0	+152	4,245	+160	0	+160
D	3,015	+240	0	+240	4,404	+280	− 6	+274
E	3,015	+232	− 8	+224	4,450	+321	− 8	+313
F	3,145	+136	− 10	+126	4,815	+216	− 13	+203
G	3,271	+ 72	− 12	+ 60	5,110	+114	− 20	+ 94
H	3,450	+ 41	− 16	+ 25	4,990	+ 79	− 26	+ 53
I	3,573	+ 40	− 36	+ 4	5,305	+ 43	− 40	+ 3
J	3,740	+ 24	− 43	− 19	5,450	+ 43	− 58	− 15
K	4,250	− 2	− 65	− 67	5,588	+ 26	− 93	− 67
L	5,175	− 2	−115	−117	5,925	+ 15	−142	−127
M	6,300	− 10	−367	−377	5,610	+ 7	−328	−321
N	5,680	+ 14	−301	−287	5,370	+ 10	−284	−274
O	5,230	0	−255	−255	5,050	0	−244	−244
18				− 46				− 41
17				− 47				− 45
16				− 45				− 43
15				− 39*				− 43
14				− 39*				− 43
13				− 57*				− 62
12				− 33*				− 37
11				− 25*				− 28
10				− 14*				− 17
9				− 3*				− 5
8				+ 6*				+ 6
7				+ 5*				+ 5*
6				+ 6*				+ 6*
5				+ 9*				+ 9*
4				+ 6*				+ 6*
3				+ 3*				+ 3*
2				+ 2*				+ 2*
1				+ 1*				+ 1*
	Total			−533				−206

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Lethbridge, Alberta, No. 71				Riverton, Manitoba, No. 72			
A	2,971	+ 2	0	+ 2	724	+ 2	0	+ 2
B	2,975	+ 67	0	+ 67	722	+ 60	0	+ 60
C	2,975	+152	0	+152	720	+ 80	0	+ 80
D	2,975	+240	0	+240	723	+ 48	0	+ 48
E	2,962	+230	− 8	+222	725	+ 21	0	+ 21
F	2,911	+132	− 10	+122	731	+ 10	0	+ 10
G	2,927	+ 71	− 12	+ 59	733	0	0	0
H	2,980	+ 48	− 16	+ 32	731	0	0	0
I	2,999	+ 20	− 20	0	731	0	0	0
J	2,960	+ 16	− 32	− 16	737	0	− 12	− 12
K	3,007	0	− 40	− 40	741	0	− 15	− 15
L	3,070	+ 2	− 74	− 72	751	0	− 18	− 18
M	3,260	+ 7	−193	−186	794	0	− 46	− 46
N	3,570	0	−184	−184	803	0	− 43	− 43
O	4,200	0	−201	−201	883	0	− 49	− 49
18	.....	.....	.....	− 41	.....	.....	.....	− 10
17	.....	.....	.....	− 40	.....	.....	.....	− 12*
16	.....	.....	.....	− 39	.....	.....	.....	− 12*
15	.....	.....	.....	− 43	.....	.....	.....	− 11*
14	.....	.....	.....	− 40*	.....	.....	.....	− 13*
13	.....	.....	.....	− 62*	.....	.....	.....	− 20*
12	.....	.....	.....	− 39*	.....	.....	.....	− 15*
11	.....	.....	.....	− 28*	.....	.....	.....	− 11*
10	.....	.....	.....	− 17*	.....	.....	.....	− 11*
9	.....	.....	.....	− 7*	.....	.....	.....	− 10*
8	.....	.....	.....	+ 5*	.....	.....	.....	− 9*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 4*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 9*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 5*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			−121				− 64

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Gypsumville, Manitoba, No. 73				Manitou, Manitoba, No. 74			
A	857	+ 2	0	+ 2	1,606	+ 2	0	+ 2
B	858	+ 60	0	+ 60	1,613	+ 64	0	+ 64
C	856	+ 92	0	+ 92	1,611	+128	0	+128
D	860	+ 66	0	+ 66	1,600	+150	0	+150
E	857	+ 32	0	+ 32	1,600	+ 88	0	+ 88
F	855	+ 10	0	+ 10	1,600	+ 40	0	+ 40
G	856	0	0	0	1,600	+ 17	− 2	+ 15
H	852	0	0	0	1,597	+ 16	− 16	0
I	846	0	0	0	1,566	+ 20	− 20	0
J	840	0	− 14	− 14	1,556	0	− 16	− 16
K	826	0	− 16	− 16	1,536	0	− 20	− 20
L	824	0	− 19	− 19	1,440	0	− 35	− 35
M	841	0	− 46	− 46	1,308	0	− 75	− 75
N	825	0	− 43	− 43	1,195	0	− 63	− 63
O	945	0	− 54	− 54	1,190	0	− 67	− 67
18				− 11				− 12
17				− 11				− 12
16				− 11				− 13
15				− 13*				− 15*
14				− 14*				− 17*
13				− 21*				− 27*
12				− 15*				− 22*
11				− 13*				− 17*
10				− 12*				− 12*
9				− 10*				− 10*
8				− 8*				− 8*
7				+ 4*				+ 5*
6				+ 7*				+ 8*
5				+ 10*				+ 10*
4				+ 6*				+ 5*
3				+ 3*				+ 3*
2				+ 3*				+ 2*
1				+ 1*				+ 1*
Total				− 35				+ 80

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Melita, Manitoba, No. 75				Estevan, Saskatchewan, No. 76			
A	1,452	+ 2	0	+ 2	1,860	+ 2	0	+ 2
B	1,455	+ 65	0	+ 65	1,865	+ 68	0	+ 68
C	1,453	+125	0	+125	1,870	+138	0	+138
D	1,440	+135	0	+135	1,865	+173	0	+173
E	1,442	+ 76	0	+ 76	1,864	+120	− 3	+117
F	1,442	+ 32	0	+ 32	1,855	+ 60	− 7	+ 53
G	1,447	+ 11	0	+ 11	1,842	+ 28	− 8	+ 20
H	1,457	+ 14	− 14	0	1,850	+ 16	− 16	0
I	1,467	+ 18	− 18	0	1,866	+ 20	− 20	0
J	1,482	0	− 16	− 16	1,880	0	− 16	− 16
K	1,496	0	− 20	− 20	1,894	0	− 20	− 20
L	1,515	0	− 37	− 37	1,825	0	− 44	− 44
M	1,528	0	− 86	− 86	1,900	0	−112	−112
N	1,603	0	− 85	− 85	2,180	0	−111	−111
O	1,790	0	− 94	− 94	2,026	0	−103	−103
18	.....	.....	.....	− 17	.....	.....	.....	− 20
17	.....	.....	.....	− 16	.....	.....	.....	− 20
16	.....	.....	.....	− 16	.....	.....	.....	− 20
15	.....	.....	.....	− 16	.....	.....	.....	− 21
14	.....	.....	.....	− 16	.....	.....	.....	− 20
13	.....	.....	.....	− 31*	.....	.....	.....	− 29
12	.....	.....	.....	− 26*	.....	.....	.....	− 31*
11	.....	.....	.....	− 21*	.....	.....	.....	− 24*
10	.....	.....	.....	− 13*	.....	.....	.....	− 14*
9	.....	.....	.....	− 11*	.....	.....	.....	− 12*
8	.....	.....	.....	− 6*	.....	.....	.....	− 4*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
6	.....	.....	.....	+ 8*	.....	.....	.....	+ 8*
5	.....	.....	.....	+ 10*				+ 10*
4	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
Total				− 47				− 16

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Indian Head, Saskatchewan, No. 77				Moosomin, Saskatchewan, No. 78			
A	1,919	+ 2	0	+ 2	1,892	+ 2	0	+ 2
B	1,923	+ 67	0	+ 67	1,898	+ 66	0	+ 66
C	1,925	+138	0	+138	1,898	+138	0	+138
D	1,925	+176	0	+176	1,904	+173	0	+173
E	1,922	+125	− 5	+120	1,883	+122	− 4	+118
F	1,928	+ 64	− 9	+ 55	1,879	+ 60	− 7	+ 53
G	1,930	+ 33	− 11	+ 22	1,870	+ 30	− 9	+ 21
H	1,942	+ 16	− 16	0	1,860	+ 16	− 16	0
I	1,971	+ 20	− 20	0	1,843	+ 20	− 20	0
J	1,980	0	− 17	− 17	1,829	0	− 16	− 16
K	2,005	0	− 22	− 22	1,825	0	− 20	− 20
L	2,040	0	− 50	− 50	1,820	0	− 44	− 44
M	2,010	0	−114	−114	1,740	0	− 98	− 98
N	1,870	0	− 96	− 96	1,690	0	− 88	− 88
O	1,795	0	− 95	− 95	1,693	0	− 94	− 94
18	.....	.....	.....	− 18	.....	.....	.....	− 17
17	.....	.....	.....	− 20	.....	.....	.....	− 16
16	.....	.....	.....	− 20	.....	.....	.....	− 16
15	.....	.....	.....	− 18	.....	.....	.....	− 16
14	.....	.....	.....	− 18	.....	.....	.....	− 16
13	.....	.....	.....	− 33*	.....	.....	.....	− 31*
12	.....	.....	.....	− 28*	.....	.....	.....	− 26*
11	.....	.....	.....	− 21*	.....	.....	.....	− 20*
10	.....	.....	.....	− 15*	.....	.....	.....	− 14*
9	.....	.....	.....	− 11*	.....	.....	.....	− 11*
8	.....	.....	.....	− 4*	.....	.....	.....	− 5*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 8*
5	.....	.....	.....	+ 10*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 5*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
Total				+ 14				+ 57

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Yorkton, Saskatchewan, No. 79				Elbow, Saskatchewan, No. 80			
A	1,650	+ 2	0	+ 2	1,929	+ 2	0	+ 2
B	1,655	+ 64	0	+ 64	1,935	+ 66	0	+ 66
C	1,655	+130	0	+130	1,934	+138	0	+138
D	1,660	+154	0	+154	1,931	+176	0	+176
E	1,657	+ 96	0	+ 96	1,920	+128	− 5	+123
F	1,662	+ 45	− 2	+ 43	1,880	+ 63	− 8	+ 55
G	1,665	+ 20	− 4	+ 16	1,855	+ 31	− 9	+ 22
H	1,665	+ 16	− 16	0	1,868	+ 16	− 16	0
I	1,661	+ 20	− 20	0	1,900	+ 20	− 20	0
J	1,661	0	− 16	− 16	1,910	0	− 16	− 16
K	1,676	0	− 20	− 20	1,904	0	− 20	− 20
L	1,698	0	− 41	− 41	1,940	0	− 47	− 47
M	1,620	0	− 91	− 91	1,920	0	−110	−110
N	1,635	0	− 86	− 86	1,796	0	− 92	− 92
O	1,810	0	− 98	− 98	1,976	0	−100	−100
18	.....	.....	.....	− 16	.....	.....	.....	− 21
17	.....	.....	.....	− 14	.....	.....	.....	− 21*
16	.....	.....	.....	− 14	.....	.....	.....	− 21*
15	.....	.....	.....	− 15	.....	.....	.....	− 22*
14	.....	.....	.....	− 17*	.....	.....	.....	− 22*
13	.....	.....	.....	− 30*	.....	.....	.....	− 37*
12	.....	.....	.....	− 24*	.....	.....	.....	− 31*
11	.....	.....	.....	− 19*	.....	.....	.....	− 24*
10	.....	.....	.....	− 14*	.....	.....	.....	− 16*
9	.....	.....	.....	− 11*	.....	.....	.....	− 11*
8	.....	.....	.....	− 5*	.....	.....	.....	− 1*
7	.....	.....	.....	+ 4*	.....	.....	.....	+ 5*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 10*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			+ 7				+ 4

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Swift Current, Saskatchewan, No. 81				Bassano, Alberta, No. 82			
A	2,498	+ 2	0	+ 2	2,601	+ 2	0	+ 2
B	2,498	+ 67	0	+ 67	2,595	+ 66	0	+ 66
C	2,495	+148	0	+148	2,600	+149	0	+149
D	2,463	+207	0	+207	2,600	+216	0	+216
E	2,483	+184	− 8	+176	2,600	+192	− 8	+184
F	2,474	+101	− 10	+ 91	2,603	+110	− 10	+100
G	2,492	+ 48	− 12	+ 36	2,610	+ 54	− 12	+ 42
H	2,537	+ 32	− 16	+ 16	2,623	+ 36	− 16	+ 20
I	2,588	+ 20	− 20	0	2,638	+ 20	− 20	0
J	2,600	+ 14	− 30	− 16	2,610	+ 11	− 27	− 16
K	2,500	0	− 30	− 30	2,686	0	− 34	− 34
L	2,500	0	− 60	− 60	2,740	0	− 66	− 66
M	2,430	+ 10	−147	−137	2,740	+ 10	−164	−154
N	2,420	0	−125	−125	2,820	0	−144	−144
O	2,420	0	−115	−115	3,070	0	−143	−143
18	.....	.....	.....	− 24	.....	.....	.....	− 38
17	.....	.....	.....	− 23	.....	.....	.....	− 39
16	.....	.....	.....	− 23	.....	.....	.....	− 41
15	.....	.....	.....	− 25	.....	.....	.....	− 40*
14	.....	.....	.....	− 24	.....	.....	.....	− 37*
13	.....	.....	.....	− 41	.....	.....	.....	− 58*
12	.....	.....	.....	− 36	.....	.....	.....	− 39*
11	.....	.....	.....	− 27	.....	.....	.....	− 26*
10	.....	.....	.....	− 17	.....	.....	.....	− 16*
9	.....	.....	.....	− 12	.....	.....	.....	− 7*
8	.....	.....	.....	0*	.....	.....	.....	+ 4*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 5*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 10*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			+ 42				− 81

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Tables is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Red Deer, Alberta, No. 83				Coronation, Alberta, No. 84			
A	2,810	+ 2	0	+ 2	2,593	+ 2	0	+ 2
B	2,815	+ 66	0	+ 66	2,599	+ 66	0	+ 66
C	2,816	+150	0	+150	2,599	+149	0	+149
D	2,818	+228	0	+228	2,575	+215	0	+215
E	2,843	+217	− 8	+209	2,581	+190	− 8	+182
F	2,864	+121	− 10	+111	2,573	+107	− 10	+ 97
G	2,891	+ 66	− 12	+ 54	2,565	+ 51	− 12	+ 39
H	2,908	+ 45	− 16	+ 29	2,580	+ 35	− 16	+ 19
I	2,961	+ 20	− 20	0	2,566	+ 20	− 20	0
J	2,980	+ 16	− 32	− 16	2,551	+ 9	− 25	− 16
K	3,034	+ 1	− 41	− 40	2,553	0	− 31	− 31
L	3,130	+ 4	− 75	− 71	2,572	0	− 62	− 62
M	3,064	+ 5	−183	−178	2,500	+ 7	−148	−141
N	3,025	0	−154	−154	2,525	0	−130	−130
O	3,210	0	−150	−150	2,460	0	−116	−116
18	.....	.....	.....	− 41	.....	.....	.....	− 26
17	.....	.....	.....	− 39	.....	.....	.....	− 26
16	.....	.....	.....	− 39	.....	.....	.....	− 27
15	.....	.....	.....	− 41	.....	.....	.....	− 27
14	.....	.....	.....	− 38*	.....	.....	.....	− 32*
13	.....	.....	.....	− 53*	.....	.....	.....	− 48*
12	.....	.....	.....	− 32*	.....	.....	.....	− 32*
11	.....	.....	.....	− 24*	.....	.....	.....	− 25*
10	.....	.....	.....	− 15*	.....	.....	.....	− 15*
9	.....	.....	.....	− 5*	.....	.....	.....	− 8*
8	.....	.....	.....	+ 4*	.....	.....	.....	+ 2*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 4*
6	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
5	.....	.....	.....	+ 9*	.....	.....	.....	+ 10*
4	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			− 50				+ 42

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Paradise Mine, British Columbia, No. 85				Invermere, British Columbia, No. 86			
A	7,470	+ 2	0	+ 2	2,615	+ 2	0	+ 2
B	7,463	+ 62	0	+ 62	2,725	+ 64	0	+ 64
C	7,508	+163	− 4	+159	2,726	+150	0	+150
D	7,940	+303	− 6	+297	2,705	+220	0	+220
E	8,025	+463	− 16	+447	2,716	+208	− 8	+200
F	7,180	+431	− 20	+411	2,710	+113	− 10	+103
G	6,750	+286	− 25	+261	2,860	+ 57	− 12	+ 45
H	6,730	+207	− 34	+173	3,006	+ 36	− 16	+ 20
I	6,665	+177	− 55	+122	3,600	+ 18	− 34	− 16
J	6,415	+103	− 67	+ 36	4,660	+ 18	− 52	− 34
K	6,135	+ 84	−104	− 20	6,475	− 15	−110	−125
L	6,600	+ 54	−156	−102	6,125	− 7	−142	−149
M	5,730	+ 55	−335	−280	6,790	− 16	−394	−410
N	6,560	+ 24	−347	−323	6,530	+ 12	−344	−332
O	5,600	0	−273	−273	5,560	0	−270	−270
18				− 50				− 48
17				− 46				− 50
16				− 42				− 43
15				− 39				− 44*
14				− 44*				− 45*
13				− 62*				− 63*
12				− 33*				− 34*
11				− 23*				− 23*
10				− 12*				− 12*
9				− 3*				− 3*
8				+ 6*				+ 6*
7				+ 5*				+ 5*
6				+ 6*				+ 6*
5				+ 9*				+ 9*
4				+ 6*				+ 6*
3				+ 3*				+ 3*
2				+ 2*				+ 2*
1				+ 1*				+ 1*
	Total			+656				−859

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Vernon, British Columbia, No. 87				Barkerville, British Columbia, No. 88			
A	1,236	+ 2	0	+ 2	4,227	+ 2	0	+ 2
B	1,240	+ 62	0	+ 62	4,235	+ 66	0	+ 66
C	1,243	+112	0	+112	4,275	+159	0	+159
D	1,257	+111	0	+111	4,396	+275	− 6	+269
E	1,334	+ 62	0	+ 62	4,556	+320	− 8	+312
F	1,450	+ 24	0	+ 24	4,745	+219	− 13	+206
G	1,580	+ 4	− 2	+ 2	4,850	+115	− 19	+ 96
H	1,740	+ 12	− 16	− 4	4,830	+ 81	− 25	+ 56
I	2,000	+ 5	− 21	− 16	5,010	+ 57	− 40	+ 17
J	2,460	+ 2	− 27	− 25	4,860	+ 36	− 49	− 13
K	3,000	− 30	− 40	− 70	4,640	+ 34	− 78	− 44
L	3,250	− 5	− 78	− 83	4,200	+ 21	−103	− 82
M	3,620	− 7	−212	−219	4,240	+ 15	−248	−233
N	4,210	+ 7	−222	−215	4,570	+ 8	−242	−234
O	4,030	0	−197	−197	4,530	0	−219	−219
18				− 42				− 47
17				− 42				− 45
16				− 44				− 45
15				− 42				− 43
14				− 38				− 45
13				− 53				− 63
12				− 28				− 25
11				− 17*				− 12
10				− 9*				− 1
9				0*				+ 2
8				+ 7*				+ 6
7				+ 5*				+ 4*
6				+ 6*				+ 6*
5				+ 9*				+ 9*
4				+ 7*				+ 7*
3				+ 3*				+ 3*
2				+ 2*				+ 3*
1				+ 1*				+ 1*
	Total			−729				+ 73

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Tyaughton Creek, B.C., No. 89				Union Bay, British Columbia, No. 90			
A	2,084	+ 2	0	+ 2	10	+ 2	0	+ 2
B	2,098	+ 64	0	+ 64	16	+ 1	0	+ 1
C	2,140	+136	0	+136	25	0	0	0
D	2,218	+177	0	+177	22	− 1	0	− 1
E	2,470	+133	− 8	+125	50	− 3	0	− 3
F	3,025	+ 47	− 10	+ 37	60	0	0	0
G	3,608	+ 13	− 14	− 1	117	0	0	0
H	4,160	− 6	− 20	− 26	250	0	0	0
I	4,933	− 32	− 43	− 75	279	0	− 1	− 1
J	5,860	− 18	− 62	− 80	350	0	− 4	− 4
K	6,065	− 20	−107	−127	1,360	− 3	− 21	− 24
L	6,600	− 14	−156	−170	1,674	− 3	− 41	− 44
M	6,000	− 17	−349	−366	2,140	− 7	−128	−135
N	4,400	+ 7	−233	−226	2,220	− 1	−114	−115
O	3,900	0	−193	−193	1,810	0	− 95	− 95
18				− 29				− 20
17				− 29				− 13
16				− 38				− 13
15				− 38				− 7
14				− 28				− 6
13				− 36				− 7
12				− 13				− 3
11				− 5				0
10				− 1				+ 2
9				+ 4*				+ 7*
8				+ 8*				+ 9*
7				+ 5*				+ 5*
6				+ 6*				+ 7*
5				+ 9*				+ 9*
4				+ 7*				+ 7*
3				+ 3*				+ 3*
2				+ 2*				+ 2*
1				+ 1*				+ 1*
Total				−895				−436

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Cloverdale, British Columbia, No. 91				Victoria, British Columbia, No. 92			
A	10	+ 2	0	+ 2	219	+ 2	0	+ 2
B	14	0	0	0	215	+ 51	0	+ 51
C	15	0	0	0	148	+ 16	0	+ 16
D	20	0	0	0	51	+ 3	0	+ 3
E	40	0	0	0	− 14	− 1	0	− 1
F	71	0	0	0	− 27	0	0	0
G	62	0	0	0	− 62	0	0	0
H	58	0	0	0	− 73	0	0	0
I	144	0	0	0	− 61	0	0	0
J	146	0	0	0	− 25	0	− 1	− 1
K	100	0	− 5	− 5	− 25	0	− 1	− 1
L	63	0	− 6	− 6	17	0	− 2	− 2
M	766	− 3	− 51	− 54	560	0	− 31	− 31
N	1,870	+ 1	−100	− 99	813	0	− 43	− 43
O	3,090	0	−156	−156	1,590	0	− 79	− 79
18	.....	.....	.....	− 35	.....	.....	.....	− 19
17	.....	.....	.....	− 29	.....	.....	.....	− 18
16	.....	.....	.....	− 24	.....	.....	.....	− 19
15	.....	.....	.....	− 18*	.....	.....	.....	− 12
14	.....	.....	.....	− 17*	.....	.....	.....	− 10
13	.....	.....	.....	− 30*	.....	.....	.....	− 12
12	.....	.....	.....	− 15*	.....	.....	.....	− 12
11	.....	.....	.....	− 9*	.....	.....	.....	− 7
10	.....	.....	.....	− 3*	.....	.....	.....	+ 5
9	.....	.....	.....	+ 5*	.....	.....	.....	+ 3
8	.....	.....	.....	+ 9*	.....	.....	.....	+ 10*
7	.....	.....	.....	+ 5*	.....	.....	.....	+ 6*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 9*	.....	.....	.....	+ 9*
4	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			−450				−142

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Banfield, British Columbia, No. 93				Nootka, British Columbia, No. 94			
A	30	+ 2	0	+ 2	75	+ 2	0	+ 2
B	25	+ 4	0	+ 4	39	+ 11	0	+ 11
C	− 6	− 2	0	− 2	− 9	0	0	0
D	− 40	− 3	0	− 3	− 91	− 3	0	− 3
E	− 31	− 3	0	− 3	−138	− 5	0	− 5
F	5	0	0	0	− 88	0	0	0
G	342	0	0	0	− 40	0	0	0
H	403	0	0	0	77	0	0	0
I	390	0	0	0	175	0	0	0
J	250	0	− 5	− 5	300	0	− 6	− 6
K	273	0	− 6	− 6	462	0	− 10	− 10
L	272	0	− 8	− 8	456	0	− 12	− 12
M	808	0	− 51	− 51	1,190	− 4	− 66	− 70
N	928	− 1	− 53	− 54	1,002	− 3	− 68	− 71
O	−783	0	+ 8	+ 8	−2,380	0	+ 56	+ 56
18	.....	.....	.....	0	.....	.....	.....	+ 1
17	.....	.....	.....	0	.....	.....	.....	+ 4
16	.....	.....	.....	+ 2	.....	.....	.....	+ 4
15	.....	.....	.....	− 5	.....	.....	.....	+ 2*
14	.....	.....	.....	− 5	.....	.....	.....	+ 2*
13	.....	.....	.....	+ 1	.....	.....	.....	+ 8*
12	.....	.....	.....	− 1	.....	.....	.....	+ 5*
11	.....	.....	.....	− 1	.....	.....	.....	+ 6*
10	.....	.....	.....	+ 4	.....	.....	.....	+ 6*
9	.....	.....	.....	+ 5	.....	.....	.....	+ 7*
8	.....	.....	.....	+ 10*	.....	.....	.....	+ 9*
7	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
5	.....	.....	.....	+ 9*	.....	.....	.....	+ 8*
4	.....	.....	.....	+ 7*	.....	.....	.....	+ 7*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			− 73				− 20

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Quatsino, British Columbia, No. 95				Prince Rupert, British Columbia, No. 96			
A	41	+ 2	0	+ 2	79	+ 2	0	+ 2
B	29	+ 6	0	+ 6	89	+ 17	0	+ 17
C	30	0	0	0	86	+ 4	0	+ 4
D	10	− 3	0	− 3	68	0	0	0
E	− 53	− 4	0	− 4	− 2	0	0	0
F	45	0	0	0	98	0	0	0
G	323	0	0	0	493	− 3	0	− 3
H	∠1,000	0	0	0	255	0	0	0
I	∠1,000	0	0	0	∠1,000	0	0	0
J	750	0	− 13	− 13	500	0	− 8	− 8
K	1,500	0	− 20	− 20	300	0	− 6	− 6
L	1,500	0	− 36	− 36	331	0	− 11	− 11
M	995	− 2	− 63	− 65	1,077	− 3	− 67	− 70
N	94	0	− 15	− 15	1,520	− 1	− 81	− 82
O	−905	0	+ 2	+ 2	1,360	0	− 73	− 73
18	.....	.....	.....	+ 1	.....	.....	.....	− 21
17	.....	.....	.....	+ 5	.....	.....	.....	− 21
16	.....	.....	.....	+ 3	.....	.....	.....	− 23
15	.....	.....	.....	+ 5	.....	.....	.....	− 18
14	.....	.....	.....	+ 4	.....	.....	.....	− 9
13	.....	.....	.....	+ 12	.....	.....	.....	− 8
12	.....	.....	.....	+ 9	.....	.....	.....	+ 5
11	.....	.....	.....	+ 10	.....	.....	.....	+ 10
10	.....	.....	.....	+ 8	.....	.....	.....	+ 12
9	.....	.....	.....	+ 9	.....	.....	.....	+ 5
8	.....	.....	.....	+ 9*	.....	.....	.....	+ 6*
7	.....	.....	.....	+ 6*	.....	.....	.....	+ 6*
6	.....	.....	.....	+ 7*	.....	.....	.....	+ 6*
5	.....	.....	.....	+ 8*	.....	.....	.....	+ 8*
4	.....	.....	.....	+ 7*	.....	.....	.....	+ 8*
3	.....	.....	.....	+ 3*	.....	.....	.....	+ 3*
2	.....	.....	.....	+ 2*	.....	.....	.....	+ 2*
1	.....	.....	.....	+ 1*	.....	.....	.....	+ 1*
	Total.....			− 37				−258

*These values have been interpolated from those obtained for neighbouring stations.

TABLE VIII—*Continued*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Stewart, British Columbia, No. 97				Masset, British Columbia, No. 98			
A	44	+ 2	0	+ 2	30	+ 2	0	+ 2
B	45	+ 12	0	+ 12	30	+ 8	0	+ 8
C	55	+ 2	0	+ 2	30	0	0	0
D	100	0	0	0	10	0	0	0
E	356	− 7	0	− 7	− 6	0	0	0
F	1,090	− 26	− 2	− 28	138	0	0	0
G	2,580	− 60	− 8	− 68	250	0	0	0
H	2,460	− 32	− 13	− 45	211	0	0	0
I	2,875	− 38	− 25	− 63	131	0	0	0
J	3,125	− 18	− 32	− 50	120	0	− 3	− 3
K	4,375	− 17	− 67	− 84	105	0	− 3	− 3
L	5,000	− 26	−115	−141	− 37	0	− 1	− 1
M	4,380	− 19	−258	−277	−186	0	+ 1	+ 1
N	3,410	− 3	−178	−181	−775	0	+ 26	+ 26
O	2,720	0	−135	−135	−2,150	0	+ 59	+ 59
18				− 32				+ 4
17				− 32				+ 7
16				− 30				+ 10
15				− 29				+ 11
14				− 27				+ 9
13				− 30				+ 17
12				− 7				+ 12
11				+ 3				+ 16
10				+ 7				+ 13
9				+ 6				+ 7
8				+ 5*				+ 7
7				+ 5*				+ 6
6				+ 6*				+ 6
5				+ 8*				+ 8
4				+ 8*				+ 8
3				+ 3*				+ 3
2				+ 3*				+ 2
1				0				+ 1
	Total			−1,196				+236

*These values have been interpolated from those obtained for neighbouring stations

TABLE VIII—*Concluded*

The unit for the corrections in this Table is ·0001 dyne.

Zone	Elevation in Feet	Topography	Compensation	Topography and Compensation
	Ocean Falls, British Columbia, No. 99			
A	60	+ 2	0	+ 2
B	58	+ 8	0	+ 8
C	74	+ 1	0	+ 1
D	188	− 3	0	− 3
E	466	− 12	0	− 12
F	1,000	− 15	0	− 15
G	1,500	− 12	0	− 12
H	1,500	− 16	− 16	− 32
I	1,500	− 20	− 20	− 40
J	1,500	0	− 16	− 16
K	1,500	0	− 20	− 20
L	1,500	0	− 36	− 36
M	1,750	− 5	−105	−110
N	2,230	− 4	−117	−121
O	2,310	0	−119	−119
18				− 22
17				− 21
16				− 22
15				− 19
14				− 16
13				− 6
12				+ 1
11				+ 6
10				+ 9
9				+ 8
8				+ 7*
7				+ 6*
6				+ 6*
5				+ 8*
4				+ 8*
3				+ 3*
2				+ 2*
1				+ 1*
Total				−566

*These values have been interpolated from those obtained for neighbouring stations.

DESCRIPTIONS OF STATIONS

No. 52, Dauphin, Man. (1924).—The pendulum was set up in the northeasterly corner of the furnace room in the basement of St. Paul's church at the SE. corner of 1st St. SW. and 4th Avenue SW. The point is 93 feet in an easterly direction along 4th Avenue SW and 33 feet in a southerly direction, parallel to 1st Street SW., from the street corner mentioned. It was 4 feet 4 inches below the level of the rail in front of the C.N.R. station.

No. 53, Swan River, Man. (1924).—The pendulum was set up in the northeast corner of the basement of Mr. Agnew's drug store (lot 19 town of Swan River). By scaling from the plan of the town of Swan River the point was found to be 706 feet south and 1,380 feet east of the quarter-section corner on the east boundary of sec. 20, tp. 36, rge. 27, W. Pr. mer. It is 8 feet below the level of the rail in front of the C.N.R. station.

No. 54, The Pas, Man. (1924).—The pendulum was set up in the east end of the room on the south side of the basement of The Pas school. By scaling from the plan of The Pas the point was found to be 666 feet south, and 5,415 feet west of the I.P.M. near (20 chains south) the NW. cor,. sec. 11, tp. 56, rge. 26, W. Pr. mer. It is 8 feet 8 inches below the level of the Topographical Survey bench-mark on the southerly abutment of the railway bridge across Saskatchewan river.

No. 55, Prince Albert, Sask. (1924).—The pendulum was set up in the west end of sample room No. 6 on the south side of the basement of the Empress hotel at the corner of 11th St. and 1st Ave. W. By scaling from the plan of the city, the point was found to be 3,369 feet south and 35 feet east of the quarter-section corner on the east boundary of sec. 9, tp. 49, rge. 26, W. 2nd mer. It is 15 feet below the elevation of the rail in front of the C.N.R. station.

No. 56, Saskatoon, Sask. (1924).—The pendulum was set up in the southwest corner of the Physics laboratory in the southwest corner of the basement of the Physics building. The point is 782 feet north and 2,375 feet west of the southeast corner of sec. 34, tp. 36, rge. 5, W. 3rd mer., and its elevation, referred to the levels of the Geodetic Survey, is 1,629 feet. The information regarding the position and elevation of the station was supplied by the Engineering department of the University of Saskatchewan.

No. 57, Vermilion, Alta. (1924).—The pendulum was set up in the east side of the basement of Vermilion town hall. By scaling from the plan of Vermilion the point was found to be 1,354 feet north and 1,070 feet east of the northwest corner of sec. 29, tp. 50, rge. 6, W. 4th mer. It is 14 feet 7 inches below the level of the rail in front of the C.N.R. station.

No. 58, Edmonton, Alta. (1924).—The pendulum was set up in the southwest corner of the Physics laboratory, about 54 feet north and 7 feet east of the southwest corner of the south wing of the Arts building of the University of Alberta. The point was found to be 16 feet 6 inches below the elevation of the city bench-mark in front of Alberta College and also about 6 feet 4 inches below the level of the floor of the Industrial building of the University. The equation between the levels of the city and the Geodetic Survey was obtained by comparison of their bench-marks in the Edmonton post office.

No. 59, Grande Prairie, Alta. (1924).—The pendulum was set up in the south end of the basement in Grande Prairie school, about 10 feet north and 10 feet east of the southwest corner of the building. By scaling from a plan of Grande Prairie the point

was found to be 432 feet north and 791 feet east of the southwest corner of sec. 25, tp. 71, rge. 6, W. 6th mer. It is 4 inches below the Topographical Survey bench-mark on the grounds of the Dominion Lands office.

No. 60, Kinuso, Alta. (1924).—The pendulum was set up on a concrete block about 6 feet by 3·5 feet built for a gasoline engine base in the south end of the basement of Mr. H. Walker's store. By scaling from the plan of Kinuso the point was found to be 860 feet north and 620 feet east of the northeast corner of sec. 15, tp. 73, rge. 10, W. 5th mer. It is 7 feet 6 inches below the level of the rail in front of the E.D. & B.C. railway.

No. 61, Lac la Biche, Alta. (1924).—The pendulum was set up in the south side of the billiard room in the basement of the Lac la Biche inn. By scaling from the plan of lots 42 to 79 of Lac la Biche settlement the point was found to be 1,230 feet south and 1,700 feet west of the northerly I.P.M. on the eastern boundary of the Hudson's Bay Company's reserve. It is 35 feet below the level of the rail in front of the A. & G.W. railway station.

No. 62, Waterways, Alta. (1924).—The pendulum was set on a concrete block erected in the north end of a log building, the property of the A. & G.W. railway on the northeast corner of lot 8. By scaling from the railway plan the point was found to be 141 feet south and 951 feet west of the quarter-section corner on the east boundary of sec. 31, tp. 88, rge. 8, W. 5th mer. It is 7 inches below the level of the rail in front of the A. & G.W. railway station.

No. 63, Edson, Alta. (1924).—The pendulum was set up in the south end of the room in the northeast corner of the basement of Edson school. By scaling from the plan of Edson the point was found to be 780 feet north and 4,540 feet west of the northeast corner of sec. 15, tp. 53, rge. 17, W. 5th mer. It is 5 feet 5 inches below the Geodetic Survey bench-mark in the west wall of the school.

No. 64, Jasper, Alta. (1924).—The pendulum was set up in the south side of the basement of the Administration building of Jasper Park. By measurement on the ground the point was found to be about 175 yards east of the Topographical Survey monument marked R7-191-3 on the south side of the street. It was 7 feet 7 inches below the Geodetic Survey bench-mark on the wall of the office.

No. 65, Mt. Olie, B.C. (1924).—The pendulum was set up in the southeast corner of Mr. La Virtue's store. This building is shown on the Geological Survey map (Publication No. 1997). It is the second house from the river on the south side of the road from the ferry and is shown at the first road corner from the river. The point was 1·5 feet above the level of the rail in front of the C. N. R. station.

No. 66, Princeton, B.C. (1924).—The pendulum was placed in the northerly end of the store-room in the basement of the Princeton hotel. It was 6 feet 3 inches below the level of the Geodetic Survey bench-mark on the traffic bridge.

No. 67, Phoenix, B.C. (1924).—The pendulum was set up in the northeast corner of the store-room in the north end of the office building of the Granby Mining and Smelting Company, near the western end of Old Ironsides avenue. The point was 66 feet below the level of the rail in front of the C. P. R. station.

No. 68, Nelson, B.C. (1924).—The pendulum was set up in the north end of the examination warehouse of the Customs Department, this building being a one-storey

annex on the south side of Nelson post office. The point is 75 feet south and 22 feet east of the post office corner on Vernon and Ward streets and is estimated to be 3 feet above the Geodetic Survey bench-mark which was placed in the building during the season of 1925.

No. 69, Cranbrook, B.C. (1924).—The pendulum was placed in the west end of the hallway in the south end of the basement of Cranbrook post office, 55 feet south and 40 feet west of the southwest corner of Baker street and Norbury avenue. It is 8 feet 2 inches below the level of the Geodetic Survey bench-mark on the north side of the building.

No. 70, Blairmore, Alta. (1924).—The pendulum was set up in the south end of the room in the southeast corner of the basement of the Cosmopolitan hotel. The point is 6 feet north and 25 feet east of the corner of the hotel building on Sixth and Victoria streets, and is 13 feet 8 inches below the level of the rail in front of the C. P. R. station.

No. 71, Lethbridge, Alta. (1924).—The pendulum was placed in the basement store-room next to and just west of the motor-room in the basement of the Lethbridge post office. The point is 70 feet east and 5 feet south of the northwest corner of the building on Seventh street. It is 5 feet below the Geodetic Survey bench-mark on the west side of the post office.

No. 72, Riverton, Man. (1925).—The pendulum was set up on the concrete floor of Sigurdson & Thorvaldson Company's warehouse, about 1,500 feet north and 1,620 feet west of the northeast corner of sec. 17, tp. 23, rge. 4, E. Pr. mer. The point is 13 inches above the level of the rail in front of the C. P. R. station.

No. 73, Gypsumville, Man. (1925).—The pendulum was set up in the northwest corner of the granary belonging to the Manitoba Gypsum Company. By measurement on the ground the point was found to be 480 feet north and 765 feet west of the quarter-section corner on the north boundary of sec. 23, tp. 32, rge. 9, W. Pr. mer. It is 3 feet above the level of the rail in front of the C. N. R. station.

No. 74, Manitou, Man. (1925).—The point where the pendulum was set up at Manitou is in the southeasterly corner of the furnace room of the Normal school. By scaling from the plan of Manitou it was found to be 682 feet north and 1,250 feet east of the northeast corner of sec. 24, tp. 3, rge. 9, W. Pr. mer. It is 18 feet 4 inches above the level of the rail in front of the C. P. R. station.

No. 75, Melita, Man. (1925).—The pendulum was set up in the easterly end of the basement vault of the Municipal hall. By scaling from the plan of Melita the point was found to be 1,823 feet north and 1,429 feet west of the northeast corner of sec. 36, tp. 3, rge. 27, W. Pr. mer. It is 36 feet 5 inches above the level of the rail in front of the C. P. R. station.

No. 76, Estevan, Sask. (1925).—The pendulum was set up in the north side of the basement of Estevan post office. By scaling from the plan of Estevan the point was found to be 2,089 feet south and 1,377 feet east of the quarter-section corner on the north boundary of sec. 22, tp. 2, rge. 8, W. 2nd mer. It is 6 feet 3 inches below the Geodetic Survey bench-mark in the north side of the building.

No. 77, Indian Head, Sask. (1925).—The pendulum was set up in the northwesterly corner of the basement of Indian Head fire-hall. By scaling from the plan of Indian

Head the point was found to be 3,415 feet south and 2,700 feet west of the northeast corner of sec. 24, tp. 18, rge. 13, W. 2nd mer. It is 17 feet below the level of the rail in front of the C.P.R. station.

No. 78, Moosomin, Sask. (1925).—The pendulum was set up in the northwest portion of the basement of Moosomin High school. By scaling from the plan of Moosomin the point was found to be 1,455 feet north and 843 feet east of the southwest corner of sec. 33, tp. 13, rge. 31, W. Pr. mer. It is at the same height as the rail in front of the C.P.R. station.

No. 79, Yorkton, Sask. (1925).—The pendulum was set up in the west side of the basement of Yorkton post office. By scaling from the plan of Yorkton the point was found to be 324 feet north and 669 feet east of the quarter-section corner on the south boundary of sec. 2, tp. 26, rge. 4, W. 2nd mer. It is 6 feet 7 inches below the Geodetic Survey bench-mark on the front wall of the building.

No. 80, Elbow, Sask. (1925).—The pendulum was set up in the northeasterly corner of the basement on the southerly side of Elbow school. By scaling from the plan of Elbow the point was found to be 2,225 feet south and 1,740 feet west of the northeast corner of sec. 11, tp. 25, rge. 5, W. 3rd mer. It is 3 feet 5 inches below the level of the rail in front of the C.P.R. station.

No. 81, Swift Current, Sask. (1925).—The pendulum was set up in the southwest corner of the men's cell room in the basement of the court-house at the corner of Lorne St. and 1st Ave. W. By scaling from the plan of Swift Current the point was found to be 3,340 feet north and 2,387 feet west of the southeast corner of sec. 25, tp. 15, rge. 14, W. 3rd mer. It is 4 feet 6 inches below the Geodetic Survey bench-mark on the east wall of the building.

No. 82, Bassano, Alta. (1925).—The point at Bassano is on the west side of the furnace in the basement of Bassano Public school. By scaling from the plan of Bassano the pier was found to be 234 feet north and 748 feet east of the southwest corner of sec. 20, tp. 21, rge. 18, W. 4th mer. It is 4 inches above the Geodetic Survey bench-mark in the north wall of Bassano post office.

No. 83, Red Deer, Alta. (1925).—The pendulum was set up in the first room at the bottom of the landing in the south side of the basement of the armouries. The point was 25 feet north and 39 feet west of the intersection of the north boundary of 1st Ave. W. with the west boundary of 2nd St. E. and by scaling from the plan of Red Deer was found to be 2,130 feet south and 1,066 feet east of the northwest corner of sec. 16, tp. 38, rge. 27, W. 4th mer. It is 9 feet 2 inches below the level of the rail in front of the C.P.R. station.

No. 84, Coronation, Alta. (1925).—The pendulum was set up in the north side of the southwesterly room in the basement of Coronation Public school and was approximately 90 feet northerly and 150 feet easterly from the near corner of King and Norfolk streets. By scaling from the plan of Coronation the point was found to be 630 feet north and 90 feet east of the centre of sec. 13, tp. 36, rge. 11, W. 4th mer. It is 5 feet 11 inches above the level of the rail in front of the C.P.R. station.

No. 85, Paradise Mine, B.C. (1925).—The pendulum pier was a concrete block erected for the purpose in the northeasterly corner of the men's small bunk-house on the sidehill. Owing to its once having been occupied by members of a moving picture

cast the building was locally known as "Seena's Palace". It is roughly about 250 feet west of the Paradise Mine office building shown at the end of the road on Map 165A (Windermere), published by the Geological Survey. The elevation of the pier was obtained by angular measurement taken to the pier and to the peaks of Mounts Nelson and Coppercrown from two points on the rim of Paradise basin. The positions of these points with respect to the pier were determined by laying out a base line of 739 feet in the basin and by measurement of the required angles with a theodolite, which was also used to measure the angles already referred to.

No. 86, Invermere, B.C. (1925).—The pendulum was set up in the south end of the east room in the basement of Invermere hotel. The point is approximately 150 feet north and 120 feet west of the astronomical pier. The elevation of the point, which may be a few feet in error, was obtained from a contour map with 10-foot intervals supplied by the Columbia Valley Irrigation office. The equation between the levels shown on this map and those of the Geodetic Survey depends upon the elevation of lake Windermere.

No. 87, Vernon, B.C. (1925).—The pendulum was set up in the northeast corner of the main basement of Vernon post office. It is 7 feet below the Geodetic Survey bench-mark in the east wall of the building.

No. 88, Barkerville, B.C. (1925).—The pendulum pier is a concrete block erected for the purpose in a small log house belonging to Mrs. L. M. McKinnon. It is about 925 feet southwesterly along Main street and 100 feet southeasterly from the English church. The elevation of the pier was determined by aneroid readings from the bench-mark of the Geological Survey at the end near Hospital lakes of the Williams Creek base line, and also by measuring, with a theodolite, the vertical angle to Mount Green-berry.

No. 89, Tyaughton Creek, B.C. (1925).—The pendulum pier is a concrete block erected for the purpose in the first building on the north side of the road west of the Tyaughton Creek bridge and shown on the Bridge River map (Publication No. 1708 of the Geological Survey). The pier is 25 feet below the elevation of the B. C. Electric Railway bench-mark No. 11 on the south side of the road and a few yards west of the bridge across Tyaughton creek.

No. 90, Union Bay, B.C. (1925).—The pendulum was set up in the northeast corner of the basement of Nelson hotel about 15 feet south and 15 feet west of the hotel corner. It was 6 feet above high tide in front of the hotel at 4.45 p.m. on October 31, 1925.

No. 91, Cloverdale, B.C. (1925).—The pendulum was set up in the basement of Mr. M. J. Charbonneau's residence and is 4 feet below the Geodetic Survey bench-mark in Cloverdale municipal hall.

No. 92, Victoria, B.C. (1926).—The pendulum pier is the large concrete pier towards the south end of the large room on the west side of the basement of Gonzales Observatory. It is 4 feet 4 inches above the level of the Geological Survey bench-mark on Gonzales hill.

No. 93, Banfield, B.C. (1926).—The pendulum was set up in the room at the southerly end of the basement of the post office, on the front or southerly side of the building. It was found by triangulation to be 120 feet north and 1,170 feet west of

the astronomical pier. It was 26 feet 10 inches above high tide at the post office pier at about 3.15 p.m. on June 29, 1926.

No. 94, Nootka, B.C. (1926).—The pendulum was set up in the small basement store-room of Nootka lighthouse on San Rafael island. The point was 72 feet above high tide in Friendly cove at about 1.10 p.m. on July 10, 1926.

No. 95, Quatsino, B.C. (1926).—The pendulum pier is a concrete block erected for the purpose in the west end of the former home and abandoned house of Mr. Ed. Evenson. It is about 180 feet north of the post office on a knoll back from the water front. It was 37 feet above high tide at Evenson's pier at about 1.40 p.m. on July 25, 1926.

No. 96, Prince Rupert, B.C. (1926).—The pendulum was set up in the westerly end of the sample room in the northwesterly corner of the basement of Prince Rupert hotel. From information obtained at Prince Rupert City Engineer's office it was found to be, referred to the levels of the Geodetic Survey, 78 feet 6 inches above sea-level.

No. 97, Stewart, B.C. (1926).—The pendulum pier is a concrete block erected for the purpose in an abandoned house just across Bear river traffic bridge and about 150 feet south of the sharp turn in the road. The building is shown on Map No. 50A of the Geological Survey. The pier was found, by readings with the two aneroid barometers, to be 35 feet above high tide at Stewart at 1.30 p.m. on August 23, 1926.

No. 98, Masset, B.C. (1926).—The pendulum pier is a concrete block erected for the purpose in the northerly end of the basement of Mr. Wes. Singer's residence. It was 28 feet 7 inches above high tide at 8.45 a.m. at Masset dock on August 31, 1926.

No. 99, Ocean Falls, B.C. (1926).—The pendulum was set up at the entrance to the bowling alleys in the east end of the basement of the theatre. It was 55 feet above high tide at the dock at 2.11 p.m. on Spetember 9, 1926.

LEGEND

PALAEOZOIC MESOZOIC TERTIARY