Copy No.

RESEARCH AID

GENERAL CRITIQUE OF SOVIET GRAVIMETRIC DATA WITH AN ANNOTATED BIBLIOGRAPHY

Supplement to CIA/RR-ER-1, GRAVIMETRIC DATA IN THE USSR

CIA/RR-ER-3
15 April 1954

25X1A5a1

[redacted]

CENTRAL INTELLIGENCE AGENCY

OFFICE OF RESEARCH AND REPORTS

WARNING

This material contains information affecting the National Defense of the United States within the meaning of the espionage laws, Title 18, USC, Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

Approved For Release 1999/09/02 : CIA-RDP79-01083A000100030001-5

SECRET

RESEARCH AID

GENERAL CRITIQUE OF SOVIET GRAVIMETRIC DATA WITH AN ANNOTATED BIBLIOGRAPHY

Supplement to GRAVIMETRIC DATA IN THE USSR
CIA/RR-ER-1

CIA/RR-ER-3

CENTRAL INTELLIGENCE AGENCY

Office of Research and Reports

FOREWORD

This report is one of a series prepared for an external research project entitled "The Problem of Soviet Capabilities in Geodesy and Cartography," which was sponsored by the CIA as an element of the research program of the Geography Division, Office of Research and Reports. 25X1A5a1

25X1A5a1 [redacted]

Knowledge of the status of Soviet developments in geodesy, photogrammetry, and cartography has been a recognized intelligence deficiency, and intelligence reports in these fields are extremely few in number and limited in topical coverage. The Project was therefore initiated to assess Soviet capabilities on the basis of a systematic study of all available published information on Soviet developments in geodesy, geodetic gravimetry, geodetic astronomy, geodetic and photogrammetric instrumentation, and cartography. The resulting reports are derived almost entirely from an extensive search for and an analysis of published Soviet scientific source materials.

The reports of the Project are designed not only to provide provisional information on the current status of Soviet capabilities in surveying and mapping but also to serve as a datum for a continuing program of collection and research that will in the future provide increasingly accurate and timely intelligence on this subject. The opinions and conclusions in this report, therefore, do not represent

final CIA evaluation of Soviet capabilities in surveying and mapping. Comments by users of the reports are solicited by the Geography Division. Other types of information resulting from the Project that do not lend themselves to publication are available for reference in the CIA Library. Among these are an extensive bibliographic file, a register of miscellaneous Soviet institutes and laboratories, and a biographic file.

This report (ER-3) supplements the bibliography included in 25X1A5a1

25X1A5a1 Geodetic Gravimetry in the USSR, 18 October 1951, [redacted]

25X1A5a1 [redacted] Part I of the report describes the deficiencies in the quantity and quality of available Soviet gravimetric data and problems related to their use for geodetic control. Part II is an annotated bibliography of available Soviet source material in which gravimetric data are given. 25X1A5a1

25X1A5a1 Other publications [redacted] issued to date are:

Geodetic Gravimetry in the USSR, CIA/RR ER-1, 18 October 1951 (Series A, No. 1). SECRET

Deformation of the Crust of the Earth and Terrestrial Magnetism, CIA/RR ER-2, 18 October 1951 (Series B, No. 1). SECRET

Selected Bibliography of Soviet Studies in the Field of Cosmic Rays, CIA/SI 78-54, 2 March 1954. SECRET

PART I

ANALYSIS OF PROBLEMS IN THE USE OF SOVIET GRAVIMETRIC SOURCE MATERIAL

In view of the close connection between geodesy and gravimetry in the U.S.S.R., it was necessary to examine all available Soviet technical and scientific sources for gravimetric information. The actual data contained in these sources have not been used in reports of the Project since its objective is limited to an appraisal of Soviet developments in geodesy and related fields. In view of the general lack of adequate gravimetric data on the U.S.S.R., however, every effort was made to collect and record each item found in order to make gravimetric data on the U.S.S.R. readily accessible to interested US and allied agencies. Each item located was studied and analyzed for information relating to Soviet development in gravimetry. In addition, this analysis revealed attributes and characteristics about the quantity and quality of the data that are significant to any future program of reduction and adjustment. The treatment of gravity data on the U.S.S.R. will involve much preliminary work and careful consideration of the problems outlined below. An investigator taking Soviet source material at its face value is likely to start his work with incorrect or inconsistent data; in which case the final result will be incorrect, no matter how good his mathematical technique may be. It is hoped, therefore, that these comments and bibliography will facilitate the proper use of Soviet gravimetric data.

(a) The subject of gravimetry, because of its close connection with geodesy, is considered by the Soviets to be of a defense nature, and all precautions are taken not to allow actual data on gravimetric

measures to leave the country. The actual number of pendulum observations reduced on one system* and utilized in a 1952 study (Z28) totals over 18,000 in number. The entire program, initiated in 1932, was set up to get at least one pendulum observation per 1,000 sq. km., a total of some 23,000 observations. The results of individual expeditions, which were published freely before 1935, have not been published since that date in open literature. In source Z27, for instance, the positions (often drifting vessels and floes) in the Arctic where gravimetric observations were made are given but not the measures themselves.

From time to time, the Soviets issue specific catalogues of gravimetric measures. One of these (G24), containing 532 determinations, is largely obsolete. Another catalogue (K46) contains a total of 2,716 observations made up to the year 1933. Neither of these catalogues was at first available in the United States but was found elsewhere and is now in hand. Still another catalogue, published in 1945, is reported to contain about 10,000 gravity determinations, but it is not available at present.

The best, or at least the most complete, source of information currently available is a catalogue by Zhuravlev (Z30). This is, not an official catalogue, being, in fact, only an appendix to the author's essay on the shape of the earth. This source contains 10,712 measures of gravity determined on the surface of the earth up to 1937. About 7,000 of the measures fall within the U.S.S.R. territorial limits.

A comparison of Z30 with K46 at once gives rise to misgivings. The two catalogues often show differences amounting to 2 or 3 milligals

*As far as we know, it is still Potsdam.

in the value of observed g in addition to frequent misprints and poor typography.** General agreement between the two catalogues, of course, is to be expected, since K46 was supposedly incorporated in Z30.

(b) In view of frequent mistakes and misprints in Soviet catalogues, it is desirable to verify catalogue entries from original sources wherever possible. These sources refer mostly to the period before 1935, but they have the advantage of giving locations much more precisely than in the catalogues and detailed descriptions of procedure. The verification introduces considerable difficulty, since practically all sources give values of observed g that differ from the catalogues. This difference is usually of a systematic character, but its amount often varies very widely. A few such examples are as follows:

Source	Source Z30 Difference in g	Remarks	No. of Determinations	Year
N33	+5 milligals	Constant	14	1928
A17	-20	From -5 to -29	22	1928
B13	-14	From -11 to -18	84	1932
V2	-12	From -10 to -18	50	1933
Y9	-14	From -10 to -22	84	1948

The last item (Y9) deserves special attention. It gives Δg (free-air) rather than g, with a statement that it was derived from the new catalogue of gravimetric data published in 1945.

It is therefore evident that the values of g or Δg given in source Z30 should be treated with considerable caution, that a comparison with other sources should be made (this can be done with about

**On page 86, for instance, the right half of the entries were moved up one line in reference to the left half. The printing was done during World War II.

3,000 determinations), and that the causes of discrepancy should be adequately explained.

In the more recent sources, gravity values (or Δg) are sometimes given to illustrate some point of theory. These data are often based on the most recent, and presumably more reliable, determinations (e.g., source G39 of 1952). From such sources, some 400 gravity data can be collected that are not included in source Z30.

(c) Another source of information concerning the gravity field of the U.S.S.R. comprises the gravimetric maps and profiles often printed in more recent publications. These are indicated in Part II if they are to be found in the original paper (ER-1). Some of the maps give not only iso-anomaly curves but also the values of anomalies for points of observation not to be found in the available catalogues. Such a map, for instance, is in source M45 of 1948. Over 200 maps and profiles have been found, most of which cover the area south and west of the line Leningrad-Moscow-Irkutsk. This material, if critically examined and reduced to one system and one kind of anomaly, should give a fairly accurate gravity map of the region indicated, but the amount of work involved will be very substantial.

Soviet gravimetrists themselves are aware of uncertainties introduced by the use of different gravity formulas for reduction. In source Z7 Zagrebin warns of the confusion caused by the use in recent Soviet sources of both the Helmert formula (1901-1909) and the International formula. This raises difficulties particularly in the use of Soviet gravity maps, which do not always indicate the formula used in the reduction.

Finally, in view of complete lack of gravity data for the northeast section of Siberia, the appearance of source Z28 of 1952 should be especially welcome. This source gives the average free-air anomalies for sectors of 100 square degrees each for the entire world, including Siberia. At least some idea of the gravity field in northeastern Siberia can thus be obtained.

Part II of this report lists 408 Soviet gravimetric sources located in this country up to September 1, 1953. Each item has been examined 25X1A5a1 [redacted] and, if the original was not readily available, it has been recorded on microfilm. In some cases photostats were made, either from the original material (series R) or from the microfilm (series P). Since the work was carried out at the 25X1A5a1 [redacted] references are to catalogue numbers there. If 25X1A5a1 the materials were found [redacted] 25X1A5a1 [redacted] no further attempt was made to locate them elsewhere. In some cases, no library source is indicated, which means that the material in question was received through the CIA. Libraries most 25X1A5a1 frequently mentioned are the Library of Congress; [redacted] 25X1A5a1 [redacted] and the Army Map Service.

The material has been arranged alphabetically according to the surnames of the authors transliterated according to the BGN system, which differs somewhat from the LC system. Under each letter of the alphabet the entries are numbered consecutively.

PART II

BIBLIOGRAPHY OF AVAILABLE MATERIAL*

1. Abakelia, M.S.: Ob izmenenii sily tyazhesti vo vremeni v svyazi s geotektonicheskimi dvizheniyami na Kavkaze:
On the change of the force of gravity in connection with the geotectonic movements in Caucasus,
Problemy Sovetskoy Geologii, Vol. 5, No. 2,1936, pp. 117-122.
DLC QE1.P7** MF 104-L P-197
Evidence of the change of gravity with time.

2. Abakelia, M.S.: V voprosu gravimetricheskoy (mayatnikovoy) izuchennosti Kavkaza:
On the problem of gravity (pendulum) knowledge of Caucasus.
Problemy Sovetskoy Geologii, Vol. 6, No. 4, 1936, pp. 360-365
DLC QE1.P7 MF 104-N P-197
Gravity map of Caucasus, Scale 1:3,000,000

3. Abakelia, M.S.: Ob organizatsii gravitatsionnykh observatoriy v Zakavkaz'ye:
On the organization of gravity observatories in Transcaucasia.
Problemy Sovetskoy Geologii, Vol. 6, No. 5, 1936, pp. 452-454.
DLC QE1.P7 MF 104-N P-197

4. Abakelia, M.: K probleme Kyurdamirskogo gravitatsionnogo khrebta v Zakavkaz'ye: On the problem of Kyudamir gravitational range in Transcaucasia.
Azerbaydzh. Neftyan. Khoz., Vol. 17, No. 8-9, pp. 40-42, 1937
DLC TN860-A8, MF 190-G P-593

5. Agafonov, G.: Otnositel'nyye Opredeleniya Sily Tyazhesti po r.r. Irtyshu i Obi i na poberezh'yi Karskogo Morya po nablyudeniyam Prof. A.N. Nefed'yeva v 1923 g.:
Relative determination of the force of gravity along the river Irtysh and Ob' and on the coast of Kara Sea according to the observations of Prof. A.N. Nefed'yev in 1923.
Zapiski po Gidrografii, 1936 No. 3, pp. 56-73
DLC VK798.R85
Determination of gravity at five points.

*For key to abbreviations used throughout the bibliography see p. 95.
**If no Library of Congress Call No. is given, the source was not catalogued when received [redacted] 25X1A5a1

6. Agafonov, G. and Nekrasova: Sila tyazhesti v Paratske, Sviyazhske i Raife v Tatarskoy Respublike po Opredeleniyam 1930 goda:
Force of gravity in Paratsk, Sviyazhsk and Raifa in Tatar Republic according to determinations of 1930.
Izv. Astr. Engel'hardt. Obs. Kazanskogo Univ., No. 15, 1932, pp. 80-96.
PU.PO QB4.K23 R-67
Uch. Zap. Kazanskogo Univ., Vol. 92, Kniga 1

7. Agafonov, G. B. and Sokolov, B. A.: Otnositel'nyye Opredeleniya sily Tyazhesti mezhdu r. r. Vyatkoy i Kamoy v 1935 godu:
Relative determinations of the force of gravity between the rivers Vyatka and Kama in 1935.
25X1A5a1
Trudy Astr. Obs. Kazan' Univ., No. 28, 1936, pp. 97-123.
[redacted]
Gravity at 15 points 55°50' - 56°27' N; 51°38' - 53° 56' E.
Detailed reduction to Kazan'.

8. Aksenov, P. P.: Gravitatsionnaya Anomaliya v Balgorodskom Rayone Kurskoy Magnitnoy Anomalii:
Gravitational Anomaly in the Belgorod District of Kursk Magnetic Anomaly.
Izvestiya Akad. Nauk. Otd. Fiz-Mat., Ser. 7, Vol. 22, 1928, pp. 65-88.
Investigations by means of torsion-balance variometer of gravity anomaly in 100 points. Two maps and several diagrams. List of coordinates determined by triangulation.

9. Aksenov, P. P.: Gravitatsionnaya anomaliya v Shchigrovskom rayone Kurskoy magnitnoy anomalii:
The gravitational anomaly in the Shchigry region of the Kursk magnetic anomaly.
25X1A5a1
Izv. Akad. Nauk. SSSR, VI-series, Vol. 21, 1927, pp. 593-608
[redacted]
Anomalies in 31 points. Astropoint for No. 25-51°50'53".34 N.
Map 1:25,000.

10. Aksent'yeva, Z. N.: Otnositel'nyye opredeleniya sily tyazhesti Odessa-Poltava:
Relative determinations of the force of gravity Odessa-Poltave.
Izv. Vs. Tresta Osn. Geol. i Grav. Rabot
Vyp. 1, 1936, pp. 24-37
AMS

11. Aksent'yeva, Z. N.: Sravneniye mayatnikov Shtyukrata i Shterneka:
Comparison of pendulums of Stückrath and Sterneck.
Izv. Vs. Tresta Osn. Geod. i Grav. Rabot
Vyp. 1. 1936, pp. 102-117
AMS

12. Aleksandrov, S. E.: Polusekundnyy manatnikovyy pribor konstruktsii AI 1933:
Half-second pendulum apparatus constructed at the Astronomical Institute in 1933.
Bull. Astr. Inst. Leningrad, No. 39, 1935, pp. 366-379
25X1A5a1 [redacted]
Abstract in English
Apparatus designed for gravity surveys in difficult regions. Precision 8 to 19 mlg. Comparison with Sterneck's pendulum. Determination of gravity at Kandalaksha, 67°10' N; 32°26' E.

13. Aleksandrov, S.: Gravimetricheskaya Apparatura Stantsii "Severny Polyus":
Gravimetric Apparatus of the station "North Pole".
25X1A5a1 Byull. Astr. Inst. No. 47, pp. 216-229
[redacted]
Abstract in English.
Special pendulum installation for the determination of the force of gravity to be used in the Arctic. Three half-tones and one diagram.

14. Aleksandrov, S. E.: Novyy Mayatnikovyy Pribor Konstruktsii Astronomicheskogo Instituta:
New Pendulum apparatus of the construction of the Astronomical Institute.
25X1A5a1 Astr. Zhurn. Vol. 12, pp. 494-502, 1935.
[redacted]
Abstract in German.
Description of the pendulum. Diagrams in text. The apparatus was tested in gravity measures in Central Asia (43 points). Some data given, no value of g.

15. Aleksandrov, S. E.: Opticheskiy Shchetchik Konstruktsii Astronomicheskogo Instituta:
Optical Co-incidence Counter constructed at the Astronomical Institute.
25X1A5a1 Byull. Astron. Inst. No. 37, pp. 293-298, 1935.
[redacted]
English Abstract
Description of the apparatus used for the pendulum observations of gravity. Three cuts in text.

16. Aleksandrov, S.: Chetvertisekundnyi Mayatnikovyy Pribor A.I.:
A quarter-second Pendulum Apparatus of the Astronomical Institute.
25X1A5a1 Inst. No. 47, pp. 215-217, 1939
[redacted]
Abstract in English
A smaller pendulum for observations of the force of gravity in difficult regions. Two half-tones.

17. Aleksandrov,S.: Rezul'taty gravitatsionnykh nablyudeniy v Krivom Roge v 1928 g.:
Results of gravity observations in Krivoy Rog in 1928.
Trudy Gl. Geol.-Razv. Upr., Vyp. 36, 1931, pp. 135-139.
DLC QE276.A163 MF 185-B P-301
Pendulum observations at 22 stations with all details.

18. Aleksandrov, S. Ye., i Fal'kson, G.F.: Sverkhlegkiy mayatnikovyy pribor
Extra-light pendulum apparatus.
Nauka i tekhnika, Vol. 17,No. 8(654), 1939, p. 7
DLC Q4 N428 MF 139-N P-423

19. Andreyev, B.A.: O geologicheskom znachenii gravitatsionnoy katry Karelii, Finlyandii i Leningradskoy oblasti:
On the geological significance of the gravitational map of Carelia, Finland and Leningrad Oblast.
Materialy Ts. N.-I. Geol.-Razv. Inst.: Geofizika, Sbornik 7, 1938, pp. 1-27
DLC QE500.L465 MF 95-J P-151
Geological interpretation of gravity anomalies gravity map 54° - 62°N; 22°-44°E, contour interval 10 mlg., scale 1:4,000,000. 3 gravity profiles.

20. Andreyev, B.A.; Zakashanskiy,M.S.; Samsonov, N.N. and Fotiadi, E.E.;
Kurs Gravitatsionnoy Razvedki:
A course of Gravimetric Prospecting.
1941, pp. 432
DLC TN269.K8 P-152
Detailed exposition of gravimetric methods of survey for oil and minerals.
Gravity anomalies:
p. 318 European Russia, Siberia and Central Asia, up to meridian 90°E and parallel 58°N. Contour interval 50 mlg.
p. 324 Ukraine 46°-52°N; 37°-44°E; contour interval 10 mlg. Profile Rostov-Liski
p. 330 N.W. European Russia; contour interval 10 mlg. (same as A16)
p. 343 Profile Kamyshbosh-Cava (Fergana Valley)
p. 352 Region North of Caspian Sea 45°-54°N; 43°-60°E; contour interval 10mlg.
p. 355 Emba Region 46°15'-48°N;52°30'-53°45'E; contour interval 4 mlg.
p. 367 Profile Allaguvatovo-Ishimbayevo-Smokayevo
p. 369 Central Bashkiriya 53°10'-53°30'N; 55° 45'-56°15'E; contour interval 2 mlg.
p. 376 Profile Kamenolomnya-Persianovka
p. 379 Profile Manych-Martynovka-Baklanovskaya

21. Andreyev, B.A.: Ob usloviyakh primenimosti formul dvukhmernoy zadachi pri interpretatsii magnitnykh i gravitatsionnykh anomaliy:
On the conditions of application of formulae for the interpretation of magnetic and gravitational anomalies.
Trudy Vses. Nauch.-Issled. Inst. Razv. Geof.
Vyp. 111,1950, pp. 3-9
DLC Slav. Uncl., MF 135-H P 384

22. Andreyev, B.A.: Prostoy metod rascheta geofizicheskikh anomaliy na vysote:
Simple Method of Calculation of Gravity Anomalies with height.
Trudy Vses. Nauch.-Issled. Inst. Razv. Geof. Vyp. 3, 1950, pp. 3-9
DLC Slav. Unclass. MF 135-H P-384

23. Aristov, G.A. and Zhuravlev,N.F.: Soveshchaniya po Voprosam Gravimetrii:
Conference on Gravimetry.
Geodezist, Vol. 15, No. 5, 1939, pp. 71-79
DLC QB296.R813 MF 78N P-409
Contemporary

24. Arkhangel'skiy, A.D.: Über die Beziehung Zwischen dem geologischen Aufbau und den Schwereanomalien im Europaischen Teil der USSR:
On the correlation between the geological structure and gravity anomalies in the European part of the USSR.
Baltic Geodetic Commission, 7th meeting, Comptes Rendus, pt. 2, pp. 367-378, 1934.
25X1A5a1
[redacted]
German text, no abstract.
General treatment of the subject. Gravity map of European Russia, contour interval 25 mlg.

25. Arkhangel'skiy, A.D.: Znacheniye Gravimetrii v Geologii i Problema Izucheniya Geologicheskogo Stroyeniya Zapadno-Sibirskoy Nizmennosti:
Significance of Gravimetry in Geology and the Problem of Study of Geologic Structure of West Siberian Plain.
25X1A5a1 Moskovsk. Obshch. Ispyt. Prirody, N.S., Vol. 40, 1932, pp. 413-427.
[redacted]
Abstract in French
General review of the subject of gravimetric measures in connection with geological structure. Application to middle and south Ural mountains.
Map of gravity anomalies 47°-53°N; 56°-64°30'E. Contour interval 25 mlg.

26. Arkhangel'skiy, A.D. and Fedynskiy, V.V.: Geologicheskiye Resultaty gravimetricheskikh rabot v Vostochnom Azerbaydzhane:
Geological Interpretation of gravimetric observations in Eastern Azerbaydzhan.
25X1A5a1 Byull. Mosk. Obshch. Ispyt. Prirody, N.S. Vol. 40, 1932, pp. 462-469.
[redacted]
Abstract in French.
Anomaly map Lenkoran'-Nukha, 1:1,000,000. Contour interval 25 mlg.

27. Arkhangel'skiy, A.D.: Anomalii sily tyazhesti v SSSR i ikh geologicheskoye znacheniye:
Gravity anomalies in the USSR and their geological significance.
Sots. Rekonstruktsiya i Nauka, Vyp. 4, 1936, pp. 28-42
DLC T4.S7 MF 105-E P-157
Anomaly map of European Russia up to 60°E, contour interval 50 mlg.

28. Arkhangel'skiy, A.D.; Mikhaylov, A.A.; Fedynskiy, V.V. and Lyustikh, Ye.N.:
Geologicheskoye Znacheniye anomalii sily tyazhesti v SSSR:
Geological significance of gravity anomalies in the USSR.
Izv. Ak. Nauk, Ser. Geologicheskaya, 1937, No. 4, pp. 701-742.
DLC AS262.A62465 MF 106-G P-174
A detailed consideration of the problem. Gravity anomaly maps (free-air and Bouger, scale 1:15,000,000) covering all European Russia, Central Asia and Siberia between lat. 55°N and the boundary to Krasnoyarsk, and then between Krasnoyarsk-Chita and boundary, with another area near Blagoveshchensk. Contour intervals 25 mlg.

29. Arkhangel'skiy, A.D. and Fedynskiy, V.V.: Geologicheskiye resul'taty gravimetricheskikh issledovaniy v Sredney Azii i Yugo-Zapadnom Kazakhstane:
Geological results of gravimetric exploration in Central Asia and S.W. Kazakhstan.
Izv. Ak. N., Seriya geologicheskaya, 1936, No. 1, pp. 3-33.
DLC AS262.A62465 MF 106-F P-173
Anomaly maps of the area, contour interval 25 mlg.

30. Arkhangel'skiy, A.D.: Uspekhi izucheniya geologicheskogo stroyeniya Yevropeyskoy chasti SSSR za pyatnadtsat'let:
Progress of study of geologic structure of the European part of the USSR for the last 15 years.
25X1A5a1 Byull. Mosk. Obshch. Ispyt. Prirody, Nov. Ser., Vol. 40, 1932, pp. 367-381
[redacted]
Gravity anomaly maps, contour interval 25 mlg.
(a) N.W. European Russia
(b) Ukraine and Caucasus

31. Arkhangel'skiy, A. D.: Geologiya i gravimetriya:
Geology and Gravimetry.
Trudy N. I., Inst. Geol. i Min., Vyp. 1, 1933, pp. 3-99
9 maps: 71/79; profiles 30, 31.
DLC Slv. Uncl. MF 124-Q P-368

32. Arkhangel'skiy, A. D.: Prichiny krymskikh zemletryaseniy i geologicheskoy budushcheye Kryma:
Causes of Crimean earthquakes and geological future of the Crimea.
Byulletin' Moskovskogo Obshchestva Ispytateley Prirody. Otdel geologicheskiy, Tom VII (1-2), 1929
Novaya seriya, tom XXXVII, pp. 501-502.
Title page only and 2 maps: 85, 86.
DLC Q60 M8 MF 130-F P-380

33. Arkhangel'skiy, A. D.: O stroyenii Russkoy platformy:
On the Structure of the Russian Platform.
Byulleten' Moskovskogo Obshchestva Ispytateley Prirody,
Otdel Geol. tom XVIII (3-4), Novaya seriya, tom XLVIII, 1940
DLC Q60 M8, pp. 5-37. Map 89, btw. pp, 6-7 MF 130-J P-421
Map 90. ris. 4, btw. pp. 26-27

34. Arkhangel'skiy, A. D.: Geologicheskiye Rezul'taty Obshchikh Magnitometricheskikh i Gravimetricheskikh Rabot v SSSR:
Geological results of the prospecting work in magnitometry and gravimetry in the USSR.
Report of the XVII Session Int. Geol. Congress Vol. 1, 1937, pp. 251-256
25X1A5a1
[redacted] Maps btw. 251-252 MF 107-L P-331
Scale of maps: 1:10,000,000 amd 1:20,000,000. Gravity anomalies in USSR, interval 25 mlg.

35. Arkhangel'skiy, A. D.: Znacheniye gravimetrii v geologii i problema izucheniya geologicheskogo stroyeniya Zap.-Sibirskoy nizmennosti:
Significance of gravimetry in geology and the problem of investigation ofgeologic structure of Western Siberian Plains.
1932, pp. 22-23
DLC QB1 R933 MF 155-N P-397

1. Balabushevich, I. A.: Rezul'taty Geofizicheskikh rabot v Prikarpat'ye: Results of geophysical work in Carpatian Russia.
Trudy Nauchno-geologicheskogo soveshchaniya, 1949, pp. 366-369.
DLC TN863.N33 MF 105-G P-159
One of the most recent surveys dealing partly with gravity. Reference to extensive gravity surveys in this region during the German occupation.

2. Balavadze, B. K. and Abakelia, M. S.: Ompareteskaya gravitatsionnaya anomaliya i opyt yeye interpretatsii: Ompareti gravitational anomaly and its interpretation.
25X1A5a1 Soobshch. Gruzinsk. Filiala Ak. N. SSSR., Vol. 1, 1940, pp. 583-587.
[redacted]
Gravitational anomaly in the region of Ompareti on the river Supsa. 344 variometer measures, area 5 x 10 km. - 60 sq. km.. Only summary of results, no actual measures.

3. Balavadze, V. K. and Abakelia, M. S.: K voprosu geologicheskoy interpretatsii Ompareteskoy gravitatsionny anomalii: On the problem of geologic interpretation of Ompareti gravitational anomaly.
Soobshch. Gruzinsk. Fil. Ak. N. SSSR., Vol. 1, 1940, pp. 625-631
Anomalies only from +8.0 to -1.5 mlg. In Butami anomaly is +37 mlg.
Reference made to M. S. Abakelia: Gravitatsionnyye karty Gruzinskoy SSSR Izv. Gruz. Industr. Instituta, Kniga No. 11, 1939.

4. Baranov, V. A.: Gravimetricheskaya exspeditsiya Astronomicheskoy observatorii Kazanskogo Universiteta v 1934 g.
Gravimetric expedition of the Astronomical Observatory of Kazan' University in 1934.
25X1A5a1 Trudy Astr. Obs.Kazanskogo Gos. Univ. No. 28. 1936, pp. 3-32
[redacted] R-71
Gravity determinations at 68 points 54°00' - 56°30' N, 47° - 54° E.
Detailed reduction based on Kazan', Map of gravity anomalies in this region.

5. Baranov, V. A.: Izmenyayemost' Kazanskikh Mayatnikov Sistemy Shterneka i Metody raznosa nevyazki.
Variability of Kazan' Sterneck pendulums and methods of distribution of errors.
Trudy Astr. Obs. Kazanskogo Univ., No. 27, 1934, pp. 7-53.
[redacted] R-70
25X1A5a1 Detailed discussion of pendulum determinations of gravity made by the observatory in 1933 (59 points), 1932 (54 points), 1931 (58 points).
New reduction of observations made in 1899-1914 (44 points). Complete details of reduction.

6. Bazuk, P.M.: Gravimetricheskiye raboty 1931 g. v Temirskom rayone: Gravimetric work in 1931 in Temir region.
Trudy Neft. Geol.-Razv. Inst., Ser. A. Vyp. 47, 1934, pp. 3-24
DLC TN860.L37 MF 110-M P-337
Anomaly map 48°45'-49°30'N;55°-57°E. Contour interval 2 mlg.

7. Belousov, V.V.: Gravitatsiya i tektogenez: Gravitation and tectogenesis.
Izvestiya Akademii Nauk SSSR,Ser. Geogr, i Geofiz., 1941, pp. 149-167
General consideration of the problem. Some application to USSR.
DLC AS262 A6246 MF 144-H P-426

8. Belyayev, Y.I. and Kopylov, N.A.: Katalog Astronomicheskikh, Trigonometricheskikh, Magnitnykh i Gravimetricheskikh Punktov, Kazakhstana: A catalogue of astronomical, trigonometric, magnetic and gravity points in Kazakhstan.
Mat. Komiss. Ekspedits. Issled., Vyp. 6, 1928
DLC Q115.A45 MF 1-E G-I
This catalogue containes 90 gravimetric points determined in the territory before 1927.

9. Belykh, S.Ya.: Astronomo-Gravimetricheskiy Metod Obosnovaniya Melkomoshtabnykh Topograficheskikh S"yemok: Astronomic-Gravimetric Control of Topographic Surveys of Small Scale.
Voyenno-Topograficheskiy Sbornik, No. 3, 1945, pp. 3-22
Maps of gravity anomalies for sheets L-42,43 and 44 44°-48°N; 56°-64°E.

10. Bogdanov, A.A., et al.: Anomalii Sily Tyazhesti i ikh Svyaz' s Glavneyshimi Tektonicheskimi Elementami Zapadnykh Oblasty Ukrainskoy SSR: Anomalies of the Force of Gravity and their connection with the most important tectonic elements in the Western part of the Ukrainian Republic.
Izv. Ak. N. SSSR. Seriya Geograf. i Geofiz., Vol. 14, 1950, pp. 223-231
DLC AS262.A6246 MF 106-B P-172
Several maps of gravity anomalies (Bouger) are given, which vary from +30 to -90 mlg.
Area covered: 48° - 51°30'N; 22°-26°E.
Valuable references to recent work in this region.
Three anomaly profiles.

11. Bogdanov, A.A., Datskevich, A.A. i Navrotskiy,N.M.: Allaguvatovo-Novyy razvedochnyy rayon Ishembayevskoy gruppy tresta Vostokneft':
Allaguvatovo - New region for investigation in the Ishimbayev group of trust Vostokneft'
Neftyaniye khozyaystvo, Vol. 27, No.1,1935, pp. 41-46
DLC TN860 N465, Maps 108,109 MF 165-P P-403

12. Bogdanov, A.A.: Solynyye Kupola Nizhnego Zavolzh'ya:
Salt domes of lower trans-Volga region.
Byull. Mosk. Obsh. Isp. Prirody, NS Vol. 42, 1934, pp. 315-368
OU Q60.M89 MF 130-G P-381
Three gravity maps: (1) East of the lake El'ton 49°05' - 49°20'N; 46°40' - 47°10' E; contour interval 5 mlg. (2) Lake Baskunchuk 47°07'-48° N; 46°45'-47°; contour interval 2 mlg. (3) General map, contour interval 10 mlg.

13. Bogolepova, A.P.: Resul'taty Gravitatsionnykh Nablyudeniy v Uralo-Embenskom Rayone v 1931-1932 g.g.
Results of Gravity Observations on the Region of Ural Emba in 1931-1932 .
25X1A5a1 tr. Inst. No. 37, pp. 304-311, 1935
[redacted]
English abstract.
Gravity measures for 84 points, in the area of 25,000 square kilometers in the region Dossor River Emba-Uil

14. Bonch-Bruyevich, M.D., ed.: Geodeziya, Tom 1, 1949: Geodesy
DLC TA545.G3 P-24 MF 41-A P-25
Examples in text:
p. 322: Tsioris-Tskhali 41°37!6N, 49°59!6 E, h 267 met.
g = 980.142. Isostatic reduction of this point. This is Z7954
p.329: 6 groups of 71 stations in Caucasus, various corrections.
p. 337: Gravity anomalies in Baku region 38° - 42° N, 47° - 50° E. given on map 1:100,000. Description p. 351, Contour intervals 25 mlg.
p. 336: Gravity anomalies in Moscow region 54°50' - 57°10'N, 36° - 39° E. given on map, Description on p. 351.

15. Borisenko.: Kratkiye svedeniya o rezul'tatakh gravometricheskikh rabot na okrainakh S.K. Donbassa:
Brief communication in the results of gravimetric work in the S.E. outskirts of Donbas. Geologiya na fronte industrializatsii.
Vol. 3, No. 1-3, 1934, pp. 19-22
DLC QE1 G4915 MF 148-BB P-387

16. Borisenko,: O roli i zadachakh gravimetrii i seysmometrii v Geologo Razvedochnykh Rabotakh na Okrainakh Sev-Kav Donbassa:
On the role and problem of gravimetric work on the S.E. outskirts of Donbas.
Geologiya na fronte industrializatsii, Vol. 2, No. 10-12, 1933, pp. 82-84
DLC QE1 G4915. MF 148-CC P-388

17. Borisov, A.A. and Fotiadi, E.E.: Nekotoryye vyvody iz Obshchey Gravitatsionnoy s"yemki v oblasti Prikaspiyskoy depressii:
Some conclusions from the general gravitational survey in the region of Caspian depression.
Neftyanoye khozyaystvo, Vol. 18, No. 12, 1937, pp. 63-66
DLC TN860.N465 Maps 106, 107 MF 165-O P-402

18. Bronshteyn, K.G. i Babiyenko, D.V.: Magnitnyye anomalii tsentra i yuga yevropeyskoy chasti SSSR.
Magnetic anomalies of Center and South of European part of USSR.
Byulleten' Moskovskogo Obshchestva Ispytateley Prirody.
Novaya seriya, tom XLIII (2).
DLC Q60 M8 pp. 264-272. Map 88, p. 265 MF 130-I P-420

19. Bulanzhe, Yu.D.: Opredeleniye Sily Tyazhesti v rayone Moskovskoy gravitatsionnoy anomalii.
Determination of the force of gravity in the region of Moscow gravitational anomaly.
Trudy Seysmol. Inst., Ak. N. and USSR, No. 103, 1940 - p. 1-56
DLC QE531.A45 MF 106-Y P-463
Detailed investigation of 41 gravity points determined in 1939. General discussion of the status of the problem and of previous determinations.

20. Bulanzhe, Yu.D.: Novoye Znacheniye Uskoreniya Sily Tyazhesti dlya Geofizicheskogo Instituta Akademii Nauk SSSR.
A New Value of the Acceleration of the Force of Gravity at the Geophysical Institute of Academy of Sciences, USSR.

Trudy Geofizich. Instituta, Ak. N. No. 5 (132), 1949, pp. 76-93
[redacted] MF 74-A P-124
Gravimetric Lab. of Geofiz. Inst., Moscow, 3 Pyzhevskiy Pereulok
the base of many recent determinations of gravity.
N.N. Pariyskiy determined for the gosudarstvenny Astronomicheskiy Institut im. Shternberga in 1935 $g = 981.559.1 \pm 0.7^4$
g (Gos. Astr. Inst. Sht.-Geof. Inst.) $= -12.3 \pm 0.1^4$
Geofiz. Inst. $g = 981.546.8 \pm 0.75$
Detailes of determination, by Bulanzhe and Ryleyeva.

21. Bulanzhe, Yu. D.: O Vychislenii Oshibki Gravimetricheskoy Svyazi dvukh Punktov.
On the calculation of error for the gravimetric connection of two points.
Trudy Seysmolog. Inst., Ak. N. No. 98, 1940, pp. 1-23
DLC QE531. A45 MF 106-BB
Improvement of Borras' formula. Application of a new formula to the results of several expeditions. Only errors are given, not measured values of g.

22. Bulanzhe, Yu.: On the determination of errors of a gramimetric connection between two stations.
Doklady Ak. N. SSSR Vol. 22, 1939, pp. 166-169.
[redacted]
Article in English
Development of Borras' method. Gravity for 5 Caucasian stations. given : Lars, Kazbek, Gudauri, Pazanauri, Dushet.

23. Bulanzhe, Yu. D.: Predvaritel'nyye Rezul'taty Opredeleniya Garvimetricheskogo Punkta pervogo v seleniyi Obi-Garm.
Preliminary Results of Determination of a Gravimetric Point of First Order in Obi-Garm Village.
Trudy Geofiz. Inst., A. N. No. 5, (132), 1949, pp. 94-99
[redacted] MF 74-A P-174
Expedition of the Geophysical Institute to Garm area in 1945.
Obi-Garm seysmological station of Tadzhik Filial of Ak. N.
38°42!7, 69°42!3, h 1333 met.
Obi-Garm-Moscow (Geof. Inst.) g = -2.010.6± 0.000.4
For Obi-Garm 6 = 979.536.3 ± 0.000.78

24. Bulanzhe, Yu. D.: Novaya Gravimetricheskaya Svyaz' Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Metrologii s Pulkovom.
A New Gravimetric Connection of All-Union Scientific Research Institute of Metrology with Pulkovo.
Trudy Geofizich. Inst. A. N., No. 5 (132), 1949, pp. 100-111.
[redacted] MF-74-A P-124
Institute of Metrology, Leningrad, Mezhdunarodnyy Prospekt, No. 19; Gravimetric laboratory.
Pulkovo - Inst. of Met. g = +31.4 ± 0.18 mg.
For the institute g = 981.930.8 ± 0.00058

25. Bulanzhe, Yu. D.: Mikhaylov, A. A. and Pariyskiy, N. N.
Formuly i Tablitsy dly obrabotki gravimetricheskikh nablyudeniy: Formular and tables for the reduction of gravimetric observations.
Izd. Geod. i Kart. Literatury, Moscow, 1949, pp. 227
DLC QB 331.B8 MF 50-E P-84
Introduction pp. 9-69 gives the current methods and point of view adopted in the USSR.

26. Bulanzhe, Yu. D. : O Vliyanii sokachaniya pri nablyudeniyakh s Maytnikami.
On the influence of swaying at pendulum observations.
Geodezist, Vol. 15, No. 12, 1940, pp. 35-42.
DLC QB296.R813 MF 65-I P-105 (also MF 72-J P-112)
Detailed discussion of the swaying of support.

27. Bulanzhe, Yu. D. : Ob opredelenii vysot gravimetricheskikh punktov metodom barometricheskogo nivelirovaniya:
On the determination of elevations of gravimetric points by the method of barometric levelling.
Geodezist, Vol. 15, No. 6, 1940, pp. 24-30
DLC QB 296.R813 M F 68-P P-102
Aneroids of Fuess and Metpribov compared. With the latter, elevations can be determined within 1 met., which is considered satisfactory for gravity surveys.

28. Bulanzhe, Yu. D.: Vliyaniye Magnitnogo Polya Zemli na Invarnyye Mayatniki:
Influence of the Magnetic Field of the Earth on Invar Pendulums.
Tr. Geofiz. Inst. No. 2 (129), 1948, pp. 32.
DLC M F 75-I
Variation in the magnetic field of the earth may produce systematic errors of the order of 4 mlg.

29. Bulanzhe, Yu. D. : Ob uchete vliyaniya sokachaniya pri mayatnikovykh nablyudeniyakh:
On calculations of the influence of swaying with pendulum observations.
Trudy Seysmol. Inst., Ak. N., No. 107, 1941, pp. 41-55
DLC QE531.A45

30. Bulanzhe, Yu. D. : Opredeleniye temperaturnykh koefitsientov mayatnikov:
Determination of temperature coefficients of pendulums.
Trudy Seysmol. Inst., Ak. N., No. 92, 1940, pp. 1-36
DLC QE531.A45 M F 106-AA

31. Bulanzhe, Yu.D. : Ob uchete vliyanii variatsii khoda khronometra pri mayatnikovykh nablyudeniyakh:
On the influence of variation of chronometer with pendulum observations.
Trudy Seysmol. Inst. Ak. N. No. 117, 1945.
DLC QE531.A45 MF 106-CC, MF 84-F P-201

32. Bulanzhe, Yu.D.: O vekovykh izmeneniyakh sily tyazhesti:
On secular changes in the force of gravity.
Trudy Soveshch. po Metodam izucheniya dvizheniy i deformatsiy Zemnoy kory.
1948, pp. 175-182 DLC R-52
Comparison of values of g in 14 stations in Caucaus made with the average interval of 25 years. No secular changes evident, contrary to Abakelia.

33. Bulanzhe, Yu.D.: O tochnosti i izmereniy anomaliy sily tyazhesti gravitatsionnym variometrom:
On the precision of the measurement of the force of gravity by means of gravity variometer.
Trudy Seysmol. Inst., No. 117, 1945, pp. 34-40.
DLC QE531.A45 M.F. 106-CC, MF 84-F P-201

34. Bulanzhe,Yu.D.: Opredeleniye sily tyazhesti v tsentral'nom rayone Moskovskoy gravitatsionnoy anomalii:
Determination of the force of gravity in the central region of the Moscow gravity anomaly.
Trudy Seysmolog. Inst., No. 91, 1940, pp. 1-34
DLC QE531.A45 MF 106-Z P-462
31 gravity points determined in 1937. Gravity map brought up to 1938. 55°20' - 56°N; 37°-38°E.

35. Bulanzhe, Yu.D.: O tochnosti izmereniy anomaliy sily tyazhesti gravitatsionnym variometrom:
On the precision of the measurement of the force of gravity by means of gravity variometer.
Izv. Ak. N., Ser. Geogr. i Geofiz., Vol. 8, No. 5, 1944, pp. 285-291.
DLC AS262.A6246 M.F. 106-L P177
Two maps of anomalies for Spasskiy and Pokrovka, in Ishimbay region. Contour interval 1 mlg.

36. Bulanzhe, Yu.D.: Chetvertaya Vsesoyuznaya konferentsiya po gravimetrii:
The fourth all union conference on gravimetry.
Izv. Ak. N., Ser. Geogr. i Geofiz., Vol. 11, 1947, pp. 509-510
DLC AS262 A6246 MF 105-AA P-164

37. Bulanzhe, Yu.D.: Ob obrabotke mayatnikovykh nablyudeniy.:
On the reduction of pendulum observations.
Geodezist, Vol. 14, 1938, No. 5, pp. 49-54
DLC QB 296.R813 MF 118-L P-244

38. Bulanzhe, Yu.D.: O Nekotorykh Sistematicheskikh Oshibkakh Kvartzevykh Gravimetrov i Gorizontal'noy Nit'yu:
On some systematic errors of qartz gravimeters with a horizontal wire.
Izv. Ak. N. SSSR, Seriya Geofizich.,1952, No. 2, pp. 31-37
Gravimeter of Novgorod is investigated.
DLC QC801.A35 MF 190-A P-493

39. Bulanzhe, Yu.D.: Ob uchete vliyaniya variatsiy khoda khronometra pri mayatnikovykh nablyudeniyakh:
On the influence of variation of chronometer on pendulum observations.
Izvestiya Akademii Nauk SSSR, Ser. Geogr.i Geofiz.1945, pp. 49-62
DLC AS262 A6246 MF 144-K P-369

40. Bulashevich, Yu.P.: Svyaz' mezhdu elektricheskimi i gravitatsionnymi anomaliyami:
Correction between electric and magnetic anomalies.
Trudy gorno-geol. inst., Vyp. 19, Geofiz. Sbornik No. 1, 1950, pp. 3-13.
DLC Slav. Uncl. MF 199-F P-500

41. Buynitskiy, V.:
Scientific Observations made during the drift of the icebreaker "Sedov" in the Period 1938-1940.
Izv. Akad. Nauk. N. SSSR, Vol. 27, 1940, pp. 122-127

25X1A5a1

Article in English
During the drift from Novo-Sibirskiye islands to Greenland, 66 gravity observations were made by I.D. Zhongolovich.
No data in this article.

1. Dyukov, I. A. et al : Opredeleniya sily tyazhesti v oblasti Vyatskikh uvalov i na Urale v 1931 g.
Determination of the force of gravity in the region of Vyatskiye Uvaly and in the Urals in 1931.
Izv. Astr. Engel'hardt Obs. Kazanskogo Univ. No. 15, 1932, pp. 1-80.
25X1A5a1 Kazanskogo Univ. Vol., 92, Kniga 1.
[redacted]
Abstract in German.
Gravity in 58 points, 53° 17' - 58° 19' N., 48°21' - 69°25' E. Same material in G7. All details of reduction. 4 anomaly profiles.

2. Dubovskoy, B. V. : Obosnovaniye gosudarstvennykh s'yemok v masshtabe 1:100,000 i 1:200,000 na astropunktakh.
Controls for maps of scale 1:100,000 and 1:200,000 based on astro-points.
Geodezist, Vol. 16, 1940, No. 11, pp. 12-20
DLC QB296.R513 M F 72-I P-102
Area 40° - 44° N, 57° - 62° E is considered. The existing network of gravimetric and astronomic points makes it possible to establish the deflection of the vertical with a mean error 1".56 in NS and 1".68 in EW direction which is considered adequate for controls of 1:200,000 maps.
Map of deflections.

3. Dubyago, A. D.: K voprosu ob integratsii gradientov sily tyazhesti: On the problem of integration of the gradients of the force of gravity.
Izv. Ak. N., Seriya geograf. i geofiz., vol. 8, 1944, pp. 57-60.
DLC AS 262,A6246 M F-106K P-176

4. Dobrokhotov, Yu. S. : Differentsial'nyy barometer D. I. Mendeleyev: Mendeleyev's differential barometer.
TsNIIGAIK, Sbornik No. 3, 1939, pp. 75-88.
AMS
Application to gravimetry.

1. Erola, V. : On the structure of the Earth's crust in the neighborhood of the Fergana Basin.
Publ. of the Isostatic Institute, No. 10, 1941, Helsinki, pp. 77.
Based on 185 gravity determinations 1902-1932.
Gravity anomaly map 37° - 44° N; 66° - 76° E. Contour interval 25 mlg.

1. Fedorov, E. K. : Geophysical and Astronomical Observations.
25X1A5a1 [redacted]. N. SSSR, Vol. 19, 1938, pp. 584-587
R-59
Article in English.
21 gravity observations obtained at the North Pole Station (drifting floe), 71°50' - 89°25' N, May 21, 1937 - Apr. 10, 1938.

2. Fedynskiy, V. V. and Molendenskiy, M. S. : Tridtsat' let Sovetskoy Gravimetrii (1917-1947):
Thirty years of Soviet Gravimetry
Izv. Ak. N., Ser. Geograf. i Geofiz., Vol. 9, 1947, pp. 395-408.
DLC AS262.A6246 M F 15-B P-32
A detailed reveiw of the progress of gravimetry in the USSR both from the theoretical and practical points of view.
Extremely useful.

3. Fedynskiy, V. V. and Shreydev, I. A. : S mayatnikami po Yugo-Zapadnoy Turkmenii:
With pendulums in S-W Turkmenia
Mirovedeniye, Vol. 22, 1933, pp. 32-46
DLC QB1.E933 M F 106-Q P-181
General description of work near Nebit-Dag.

4. Fedynskiy, V. V. : Kratkiy otchet o gravimetricheskoy svyazi Neft. Geologorazv. Inst. s podvalum Astro. observavorii Moskovskogo Universiiteta:
Brief report on gravimetric connection of the Oil Research Institute with the basement of astronomical observatory of Moscow University.
Izv. Vs. TrestaOsn. Geodez. i Grav. Rabot.
Vyp. 1, 1936, pp. 100-101
AMS

5. Fedynskiy, V. V.: Barometricheskiy effekt v gravimetrakh:
Barometric effect in gravimeters
Izv. Ak. N., Ser. Geogr. i Geofiz. 1945, pp. 108-111.
DLC AS262.A246 M F-144-L P-369

6. Fotiadi, E. E., Ed.: Geofizicheskiye Metody Razvedki v Arktike:
Geophysical Methods of Survey in the Arctic.
Trudy Ark. Inst. Vol. 151, 1940, pp. 104
DLC G600 L4 MF 17-J-K P-132
Geophysical work in Nordvik, Ust'Port, Yugorskiy Peninsula.
Magnetic survey in Aldych-Yana region. Gravimetric, electromagnetic and seismological methods of surveying for deposits. List of all surveys up to year 1939. Gravity anomaly maps (contour interval 1 mlg.) : (a) Ust' Port, 69°30' - 69°42' N; 84°15' - 85° E (b) Yurung Tumus 73°57' -74°04' N; 111° - 111°40' E (c) Bay Kozhevnikova 73°35' - 73°45' N; 110°30' -111° E.

7. Frolov, A. I.: O dinamicheskom temperaturnom Koefficiente Mayatnikov:
On the dynamic temperature coefficient of pendulums.
Sbornik NT i PS Vyp. 24, 1949, pp. 35-39
DLC QB301.R8 P-12
Experiments with twelve pendulums in 1940-48. Influence of stratification of temperature.

8. Frolov, A. I.: O Vliyanii Vertikal'nogo Temperaturnogo Gradienta na Opredeleniya Sily Tyazhesti Svobodnymi Mayatnokami:
On the influence of temperature gradient on the determination of gravity by free pendulums.
Sbornik NTPS, Vyp. 16, 1948, pp. 9-22
DLC QB301.R8 P-8
Discussion of errors obtained with various instruments. 8 determinations of g for 4 places in Eastern Siberia are given (1936-43). Adopted g:

Yakutsk	982.047	Isit'	981.927
Ust'Kut	981.513	Olekminsk	981.881

1. Galushko, P.Y.: Do Pitannya pro Beregovy Anomalii:
On coastal anomalies.
Zhurnal Astronomichesnoy Observatorii, Kiev, Vol. 6, pt. 2, pp. 169-183, 1936

Ukrainian text, abstract in Russian and English. Derivation of formulae for computation of gravity anomalies at sea-shore or on islands.

2. Galushko, P. Ya.: O proiskhozhdenii solyanykh kupolov:
On the origin of the salt domes.
Trudy Neftyanoy Konferentsii 1938 goda, pp. 217-226.
DLC TN863.N4 MF 105-F P-158
Two gravity anomaly maps; contour interval 10 mlg.
(1) Ukraine, scale 1:4,000,000, 46°-52° N; 26°-41° E.
(2) Dnepr-Donets Depression, scale 1:2,000,000, 48°30'-52°30'N; 30°-37° E.
Gravity profile: Priluki - Romny

3. Gamburtsev, G.A. and Polikarpov, M.I.: Vychisleniye defekta massy po gravimetricheskim nablyudeniyam na Shuvalovskom ozere.
Calculation of defect of mass on basis of gravimetric observations on Shuvalovo lake.
Zhurnal prikladnoy fiziki,
Vol. 7, vyp. 5, 1930, pp. 13-36
DLC QC1.Z476 MF 126-B P-415

4. Gamburtsev, G.: K izucheniyu Kurskoy gravitatsionnoy anomalii.
On the Study of Kursk gravity anomaly.
Zhurnal prikladnoy fiziki
Tom 2, vyp. 1-2, 1925, pp. 95-100
DLC QC1 Z476 MF 126-L P-418

5. Gamburtsev, G.A.: Ob opredelenii elementov zaleganiya beskonechno prostirayushchikhsya tel po gravitatsionnym nablyudeniyam.
On the determination of elements of infinitely extending bodies on the basis of gravimetric observations.
Izvestiya Akademii Nauk SSSR, Ser. Geogr. i Geofiz. 1940, No. 3, pp. 363-372
Izd. Ak. Nauk. SSSR, 1940
DLC AS262 A6246 MF 144-C P-370

6. Gamburtsev, G.A.: Ob odnom sposobe opredeleniya raspolozheniya podzemnykh mass na osnovanii magnitnykh i gravitatsionnykh nablyudeniy.
On the method of determination of position of subterraneous masses on the basis of magnetic and gravimetric observations.
Zhurnal prikladnoy fiziki, Vol. 8, Vyp. 2, 1930, pp. 103-105
DLC QC1, Z476 MF 126-A P-415

7. Gamburtsev, G.A.: Geologicheskaya interpretatsiya magnitnykh i gravitatsionnykh nablyudeniy s pomishch'yu priborov dlya mekhanicheskikh vychisleniy:
Geologic Interpretation of magnetic and gravitational observations by means of instruments for mechanical computation.
Zhurnal Prikladnoy fiziki, Vol. 6, Vyp. 1, 1929, pp. 62-67
DLC QC1 Z476 MF 126-D P-416 and 417

8. Gamburtsev, G.A.: Geologicheskaya interpretatsiya gravitatsionnykh i magnitnykh nablyudeniy s pomoshch' yu priborov dlya mekhanicheskikh vychisleniy.
Geologic interpretation of magnetic and gravitational observations by means of instruments for mechanical computation.
Tom, V, Vyp. 3-4, 1928, pp. 227-234
1928
DLC QC1 Z476 MF 126-E P-417

9. Gaykin, V.: Organizatsiya i znacheniye obshchey osnovnoy gravimetricheskoy s"yemki.
Organization and significance of the general fundamental gravimetric survey.
Geodezist, No. 1-2, 1934, pp. 18-25
DLC QB 296 R813 MF 131-P P-429

10. Gaykin, V.A.: Vsesoyuznaya konferentsiya po razvitiyu geodezicheskikh rabot vo vtroroy pyatiletke.
All-Union conference on the development of geodetic work in the Second Five Year Plan.
Mirovedeniye, Tom 21, No. 6, 1932, pp. 45-51.
DLC QB1 R933 MF 155-N P 397

11. Gel'fand, I.S.: Pryamyye metody interpretatsii gravitatsionnykh i magnitnykh anomaliy ot dvukhmernykh tel.
Direct methods of interpretation of gravitational and magnetic anomalies produced by two-demensional bodies.
Pryamyye metody interpretatsii gravitatsionnykh i magnitnykh anomaliy ot trekhmernykh tel.
Direct methods of interpretation of gravitational and magnetic anomalies produced by three-demensional bodies.
Trudy gorno-geolog, instituta Vyp. 19,
Geofiz. sbornik No. 1, 1950, pp. 51-80
DLC Slav. Uncl. MF 199-F P-500

12. Gizhitskiy,A.: Opredeleniye Sily Tyazhesti v Severo-Zapadnoy Oblasti v 1927 g:
Determination of the force of gravity in N-W region in 1927.
25X1A5a1 Byull. Astr. Inst. No. 21, 1929, pp. 10-12.
[redacted]
Abstract in German
Gravity measures at 10 points S. of Leningrad. Map of gravity anomalies.

13. Gizhitskiy, A.: Opredeleniye Sily Tyazhesti na Belom More v 1910 g:
Determination of the force of gravity in the White Sea in 1910.
25X1A5a1 Byull. Astr. Inst., No. 49, 1939, pp. 273-275
[redacted]
Abstract in English
4 gravimetric points, measures recently reduced.

14. Gizhitskiy, A.: Opredeleniye Sily Tyazhesti Vdol' Mariinskoy Vodnoy Systemy i v Prilegayushchikh Rayonakh v 1913 g.:
Determination of the force of gravity along the Mariinskaya Water System and in neighboring regions in 1912.
25X1A5a1 Byull. Astr. Inst., No. 49, 1939, pp. 275-277.
[redacted]
Abstract in English
Measurement of the force of gravity in 6 points.

15. Gizhitskiy, A.: Opredeleniye Sily Tyazhesti na o-ve Alande v 1914 g.:
Determination of the force of gravity on Aland Island in 1914.
25X1A5a1 Byull. Astr. Inst., No. 49, 1939, pp. 277-278
[redacted]
Abstract in English
Gravity at one point on the island.

16. Gizhitskiy, A.: Opredeleniye Sily Tyazhesti Vdol' Linii Zheleznoy Dorogi Vologda-Arkhangel'sk:
Determination of the force of gravity along the Vologda-Archangel rail-road.
25X1A5a1 Astr. Inst. No. 49, 1939, pp. 279-281
[redacted]
Abstract in English
Gravity at 5 points

17. Gizhitskiy,A.: Opredeleniye Sily Tyazhesti na Urale i v Prilegayushchikh k nem rayonakh v 1931 g.:
Determination of the force of gravity in Ural and neighboring regions in 1931.
25X1A5a1 Astr. Inst. No. 33, pp. 176-194
[redacted]
Abstract in English
Gravity measures at 58 points 53°53' - 58°19' N; 48°21' - 69°28' E. made by Dyukov (D1).
42 points by Tkhorzhevskiy; 23 by Pariyskiy; 27 points by Tsukervanik and 25 points by Musselius.

18. Gizhitskiy, A.: Opredeleniye Tyazhesti na Urale.
Determination of gravity in Ural region in 1924.
25X1A5a1 Astr. Inst. No. 9, 1935, pp. 63-67
[redacted]
Abstract in German
Gravity at 10 points 57°27' - 57°41'N; 56°55' - 59°48'E.

19. Gizhitskiy,A.: Opredeleniye Sily Tyazhesti v Bashkirii v 1926 g.:
Determination of the force of gravity in Bashkiria in 1926.
25X1A5a1 Astr. Inst., No. 18, 1928, pp. 213-215
[redacted]
Abstract in German
Gravity at 6 points 55°06' - 56°03'N; 60°13' - 61°00'E.

20. Gizhitskiy,A.: Opredeleniye Sily Tyazhesti po r. Severn. Dvine i Yeye Pritokam v 1928 g.:
Determination of force of gravity along the river, North Dvina and its tributaries.
25X1A5a1 Astr. Inst. No. 23, pp. 25-28, 1929
[redacted]
German abstract
Gravity determination in 9 points, latitude 61°27' to 64°42' N; longitude 42°34' to 48°17' E.

21. Gizhitskiy,A.: Opredeleniye Sily Tyazhesti po Sukhone, Vychegde i Sev. Dvine:
Determination of the force of gravity along the Sukhona, Vychegda and North Dvina.
Byull. Astr. Inst. No. 3, 1924
Yerkes Observatory, William Bay, Wis. QB4,L538
French abstract
Gravity in 11 places: six astronomical determinations of coordinates.

22. Gizhitskiy, A.M.: Opredeleniye Sily Tyazhesti na Ladozhskom Ozero:
Determination of the force of gravity on Lake Ladoga.
25X1A5a1 Byull. Astr. Inst. No. 49, 1939, pp. 271-273
[redacted] R-82
Abstract in English
Determinations made in 1908 but more recently reduced; 4 points.

23. Gizhitskiy, A.M.: Opredeleniye Sily Tyazhesti v Leningradskikh Iskhodnykh Punktakh:
Determination of the Force of Gravity in the Leningrad Fundamental Points.
25X1A5a1 Byull. Astr. Inst. No. 39, pp. 361-366, 1935
[redacted]
Abstract in English
Determination of the force of gravity in Leningrad Astronomical Institute, Institute of Metrology and Standards and Astronomical Observatory at the University.

24. Gizhitskiy, A. i Savkevich,P.: Katalog Punktov Gravimetricheskikh Opredeleniy Proizvedennykh v Rossii do 1922 g.:
Catalogue of Points of gravimetric determinations made in Russia up to 1922.
Russkoye Astronomicheskoye Obshchestvo, 1923, Moskva - Petrograd.
R-18
A detailed catalogue of 532 gravimetric determinations.

25. Gizhitskiy, A., and Yakhontov, E.: Opredeleniye Sily Tyazhesti v Severo-Zapadnom Rayone v 1923 g.:
Determinations of the force of gravity in the N.W. region in 1923.
25X1A5a1 Byull. Astr. Inst., No. 5, 1924
[redacted]
Abstract in English
Gravity at 9 points S.W. of Leningrad

26. Gizhitskiy, A. M.: Opredeleniye sily Tyazhesti v Zapadnoy Sibiri v 1930 g.:
Determination of the force of gravity in Western Siberia in 1930.
25X1A5a1 Astr. Inst., No. 30, 1931, pp. 109-113
[redacted]
Gravity in 14 points between Chelyabinsk and Petropavlosk.
Gravity profile: Zlatoust - Omsk.

27. Gizhitskiy, A. M. : Opredeleniye Sily Tyazhesti v Vyritse i Detskom Sele:
Determination of the force of gravity in Vyritsa and Detskoye Selo.
25X1A5a1 Astr.Inst. No. 30, 1931, pp. 10g-109.
[redacted]

28. Gizhitskiy, A. M. : Opredeleniye Sily Tyazhesti po profilyam: Kotel'-nich - Perm' i Vyatka - Kotlas:
Determination of the force of gravity along the profiles Kotel'nich - Perm' and Vyatka-Kotlas.
25X1A5a1 Astr. Inst., No. 33, 1931, pp. 163-168.
[redacted]
Gravity in 17 points.

29. Gizhitskiy, A. M.: Gramitricheskaya svyaz' Pulkova s Kazan'yu i iskhodnymi punktami v Leningrade:
Gravimetric connection of Pulkovo with Kazan' and fundamental points in Leningrad.
Izv. Vs. Tresta Osn. Geodez. i Grav. Rabot
Vyp. 1, 1936, pp. 53-74
AMS

30. Gorshkov, P. M.: Uspekhi Gravimetrii:
Achievements of Gravimetry
Ak. N. 1936, pp. 122
DLC QB331.G6 P-160
A semi-popular exposition; pp. 60-104 deals with determination of gravity and a general survey of the gravity field in the USSR from Leningrad to Vladivostok. Rather detailed descriptions of individual gravity regions and a catalogue of 312 points isostatically reduced. Also a gravimetric survey of the Volga delta with 10 points given.

31. Gorshkov, P.M.: Gravimetriya i Figura Zemli:
Gravimetry and the figure of the Earth.
Izv. Vses. Geograf. Obsh. Tom 78, Vyp. 3, 1946, pp. 307-324.
DLC G23 R6 MF 42-D

32. Gorshkov, P.M.: Zadachi Gravimetrii v Arktike:
The Problems of Gravimetry in the Arctic.
Arctica, Kniga 5, 1937, pp. 103-116
DLC G600-A75 MF 105 R-50
A list of 46 gravity determinations North of 62° N, in the Soviet Arctic known up to 1935.

33. Gorshkov, P.M.: Gravimetricheskaya S"yemka Kuzbasa i Gornoy Shorii 1931 g.:
Gravimetric Survey of Kuznetskiy Basin and of Mountainous Shoriya in 1931.
Trudy Soveta po Iz. Proizv. Sil: Ser. Kuzbaskaya, No. 1, 1932, p. 38
NNA
Gravity measures in 38 points in the region are given with all detail.

34. Gorshkov, P.M.: Gravimetric Investigations of Priirtysh'ye
Bol'shoy Altay Vol. 2, pp. 38-57, 1936
DLC Q60.A6 MF 105-B P-155
Report on the Gravimetric survey along the river Irtysh. Data for 62 stations are given. Gravity map: 51° N - river Irtysh; 80°30' - 85° E. Gravity Profile: Karaganda - Semipalatinsk.

35. Gorshkov, P.M. and Gorshkov, G.P.: Gravimetricheskaya Kharateristika Odnogo iz Uchastkov Severo-Zapadnogo Kavkaza:
Gravimetric Characterization of one of the sections of N.W. Caucasus.
Izv. Vses. Geograf. Obsh. Vol. 79. 1947, pp. 57-63
DLC G23.R6 MF 29-A P-465
6 gravity determinations. Gravity anomaly in the Sukhumi region discussed. Reference made to the catalogue of gravimetric points in USSR Vol. 1, 1944.

36. Gorshkov, P.: Gravimetricheskaya s"yemka ot zapadnoy granitsy SSSR do Vladivostoka:
Gravimetric survey from the Western boundary of the USSR to Vladivostok.
Izv. Vs. Geograf. Ob. Vol. 53, 1931, pp. 379-401.
DLC G23.R6 M F 66-G P-103
An outline of the problem. Gravity profiles: Leningrad-Vladivostok and Sverdlovsk-Omsk. 12 gravity measures for the latter.

37. Gorshkov, P. M.: Geofizika Zapadnoy Sibiri po gravimetricheskim dannym Akademi Nauk SSSR:
Geophysics of Western Siberia on the basis of gravimetric data of Academy of Sciences.
Trudy pervogo vsesoyuznogo geograficheskogo s"yezda. Vyp. 3, 1934, pp. 79-80
DLC G56 V8 M F 140-E P-371

38. Govorova: Opyt kratkovremennogo opredeleniya sily tyazhesti:
Experience of determination of the force of gravity in a short interval of time.
TsNIIGAIK, Sbornik No. 7, 1941.
AMS; CGS

39. Gromov, S. V.: Ob odnom metode Regulyarizatsii Zemlii:
On a method of regularization of the Earth.
Trudy Astr. Obs. Leningrad Univ., Vol. 16, 1952, pp. 194-276
25X1A5a1
[redacted]
Inversion method of Rudzki considered and developed. Tables and application to 86 gravimetric positions in USSR for which are given: coordinates, altitudes, Δg by method of inversion, Δg (free air) by Helmert's formula, Δg by International formula.

40. Gromov, S. V.: Inversiya i Ukloneniye Otvesa:
Inversion and Deflection of the Vertical.
Trudy Astr. Obs. Leningrad Univ. Vol. 16, 1952, pp. 277-322
25X1A5a1
[redacted]
Application of theory developed in preceeding article.

41. Grushinskiy, N.P.: O Temperaturnom Dinamicheskom Effekte v Gravimetrii:
On the Temperature Dynamical Effect in Gravimetry.
Trudy TsNIIGA i K, Vyp. 51, 1948, pp. 117-134
DLC QB275.M64 P-78
Theory and experiments with gravimeters not supplied with a thermostat.

42. Grushinskiy, N.P.: Ob Ispol'zovanii Gravimetrov dly Opredeleniya Punktov I i II Klassov:
On the use of gravimeters for the determination of points of I and II order.
Sbornik NT i PS, Vyp. 23, 1949, pp. 16-21
DLC QB301.R8 P-11
I order m.e. less then 1 mlg. II order less then 2 mlg. Gravimeters of Molodenskiy and Norgaard used. For Kiyev Observatory g = 981.072.3 ± 0.78.
Δg Moscow Airport - Gos. Astr. Inst. Shteynb. -28.1.± 0.20 mlg.
Poltava " - Observatory + 1.1 ± 0.16
Kiyev " - Observatory + 3.9 ± 0.18
First order points at present: Pulkovo, Moscow, Kazan', Poltava, Tbilisi

43. Gubkin, A.M.: Vtoraya neftyanaya baza soyuza i Uralo-Embenskiy Neftenosnyy Rayon:
Second oil base of the union and Emba oil region.
Sots. Rekonstr. i Nauka, Vyp. 2, 1936, pp. 31
DLC T4.S7 MF 105 P-156
Gravimetric maps of (a) Makat (47°40' N; 52° 55' E)
(b) Baychinas (47°14' N; 52°55' E)
Contour intervals: 2 mlg.

44. Gubkin, I.M.: Novaya neftyanaya baza SSSR na vostoke:
A New Oil Base of USSR in the East
Gos. N. Tekh. Gorno-Geol. Neft. Izd., 1934
DLC TN874 R9 V6
4 maps at end of book: 80,81,82,83. Maps photost. MF 125-U P-357

45. Gubkin, I.: Doklad o Kurskikh magnitykh anomaliyakh.
Report on Kursk magnetic anomalies
Gornyy Zhurnal, God XCVIII. No. 10-12, pp. 453-454
Izd. Glav. Upr. Gorn. Prom. V.S.N.Kh., 1922
DLC TN4 G8, No maps, photost. MF 127-B P-376

1. Idel'son, N. : Uber die Bestimmung der Figur der Erde Aus Schwerkraft-messungen:
On the determination of the shape of the earth from gravity measures.
Baltic Geodetic Commission, 7th meeting, Comptes Rendus, Pt. 2, pp. 9-23. 1935.
Text in German. Same in Russian Trudy Baltic Geod. Komiss.Vyp. 1, pp. 21-32
DLC Slavic Uncl. P-414
A general survey of the problem with a special attention to Russian sources.

2. Idel'son, N. and Malkin, N.: O Vyvode Formuly Stoksa de'a Rasstoyaniya Mezhdu Geoidom i Ellipsoidom:
On the Derivation of Stokes' Formulae for the distance between Geoid and Ellipsoid.
Byull. Astr. Inst., No. 26, 1931. pp. 68-70
25X1A5a1
[redacted]
Derivation of Stokes' Formula for Δg without the introduction of spherical harmonics.

3. Ivanov, V. K.: Ob Opredelennii Garmonicheskikh Momentov Vozmushchayushchikh Mass po Proizvodnoy Gravitatsionnogo Potentsiala, Zadannoy na Ploskosti:
On the determination of harmonic moments of perturbing masses from the derivation of the gravity potential given in a plane.
Izv. Akademii Nauk SSSR
Ser. Geograf. i Geofiz.
Tom 14, 1950 pp. 403-415
DLC A262.A6246 M F 106-C

4. Izotov, A. A.: Razvitiye Geodezicheskoy Nauki Za Gody Sovetskoy Vlasti:
Development of Geodetic Science in the years of Sovet Power.
Sbornik NTiPS, Vyp. 21, 1948, pp. 19-35.
DLC QB301.R8 P-9
Considerable portion of this review has a bearing on gravimetry.

5. Izotov, A. A.: Forma i razmeny zemli po sovremennym dannym:
Shape and dimensions of the earth according to modern data.
Trudy TsNIIGAiK, Vyp. 73, 1950, pp. 204 R-75

6. Izotov, A. A.: Opredeleniye razmerov zemli dlya geodezicheskikh rabot SSSR:
Determination of the dimensions of the earth for geodetic work in the USSR.
Sbornik NTiPS, Vyp. 20, 1948, pp. 3-46
DLC QB301.R8 M F 18-D P-205
Application of gravity

1. Katalog Spravochnik laboratornykh priborov i oborudovaniya:
Reference catalogue of laboratory instruments and equipment.
Vyp. 36, 1948
DLC MF 104-E
Detailed description of (a) Universal pendulum apparatus; (b) gravity variometer
No. S-20; (c) Molodenskiy's gravimeter GKM - NIIPG-5

2. Kazanskiy, I.A.: Anomalii Sily Tyazhesti v Moskovskom Rayone:
Anomalies of the Force of Gravity in the Moscow Region.
25X1A5a4 Russ. Astr. Zhurnal, Vol. 2,1925, Vyp. 4, pp. 36-56.
[redacted]
Abstract in German
Gravity measures for 8 points.

3. Kazanskiy,I.A.: Soobrazheniya ob Ustanovlenii Osrednennogo Znacheniya Absolyutnoy Sily Tyazhesti dly Mirovoy Gravimetricheskoy S"yemki:
Reflections on the Establishment of the Mean Value of Absolute Force of Gravity for the World Gravimetric Survey.
Trudy TsNIIGAiK, Vyp. 51, 1948, pp. 61-82.
DLC QB275.M64 MF 61-L P-78
Detailed investigation of the value of g for Potsdam, Teddington, Washington, and Ottawa.

4. Kazanskiy, I.A.: Sovremennoye Polozheniye i Perspektivy Gravimetricheskogo Izucheniya Mira:
The Present Status and Possibilities of the World Gravimetric Survey.
Trudy TsNIIGAiK, Vyp. 51, 1948, pp. 3-45
DLC QB275.M64 MF 61-L P-78
A detailed review of the status of gravimetry in various countries including the USSR.

5. Kazanskiy, I.A.: Znacheniye Napryazheniya Sily Tyazhesti dly Moskovskoy Observatorii:
Values of the Acceleration of the Force of Gravity at the Moscow Observatory.
Russ. Astr. Zhurnal, Vol. 2, 1925, Vyp. 4, pp. 57-61
Abstract in French
Detailed discussion of all determinations. Adopted value g 981.556±0.0012

6. Kazanskiy, I.A.: Prakticheskiy Opyt Gravimetricheskogo Vyvoda Ukloneniya Otvesa i Formy Geoida:
Practical attempt to deduce from Gravimetric data the deflection of the verticle and the form of the Geoid.
Trudy TsNIIGAiK, Vyp. 11, 1936, pp. 8-58
DLC QB275-M64 MF 74-H P-123
Abstract in English
Moscow region gravity anomaly is considered. 87 gravity determinations in the region are collected and given in a table (54°15' - 57°10' N), (35°40' - 39°40' E). Maps of anomalies and of deviation of the vertical.

7. Kazanskiy, I.A.: O Gravimetricheske-Geodezicheskikh Rabotakh TsNIIGAiK:
On gravimetric-geodetic work of the TsNIIGAiK.
Trudy TsNIIGAiK, Vyp. 11, 1936, pp. 3-7
DLC QB275.M64 MF 74-H P-123
General discussion.

8. Kazanskiy, I.A.: O rabotakh TsNIIGAiK po geodezicheskoy gravimetrii:
On the work of TsNIIGAiK in geodetic gravimetry.
Trudy TsNIIGAiK, Vyp. 17, 1937, pp. 5-8
NNA 704; DLC QB275.M64 MF 86-H P-150
General description.

9. Kazanskiy, I.A.: Prakticheskiy opyt gravimetricheskogo vyvoda otkloneniya otvesa:
Practical attempt of gravimetric determination of the deflection of the vertical.
Doklady Sov. Deleg. VII Konfer. Baltiyskoy Geodet. Komiss., vyp. 7, 1934, pp. 3-43.
DLC MF 65-0
Moscow anomaly is considered. Map of anomalies 54°20' - 57°10' N; 35°50' - 39°20' E.

10. Kazanskiy, I.A.: K nekotorym voprosam, svyazannym s obsluzhivaniyem i ispol'zovaniyem gravimetricheskoy s"yemki SSSR:
On some problems connected with the organization and use of gravimetric survey of the USSR.
TsNIIGAiK, Sbornik No. 3, 1939, pp. 3-10.
AMS

11. Kazanskiy, I.A. and Brand, V.E.: Ispytaniye nalichiya dolgotnogo chlena v figure Zemli po dannym obschey gravimetricheskoy s"yemki SSSR:
Test for the presence of the longitude term in the shape of the earth according to data of general gravimetric survey of USSR.
TsNIIGAiK, Sbornik No. 3, 1939, pp. 26-45.

12. Kazanskiy, I.A.: O sostoyanii gravimetricheskogo dela i problemakh yego razvitiya v SSSR:
On the status of gravimetry and its problems in the USSR.
Mirovedeniye, Tom 21, No. 6, 1932, pp. 34-40
DLC QB1 R933 MF 155-N P-397

13. Kazinskiy, V.A.: K Voprosu o Teorii Izmereniy Sily Tyazhesti na More:
On the problem of a theory of measurement of the force of gravity at sea.
Sbornik NTiPS, Vyp. 8, 1945, pp. 84-88

Theoretical discussion

14. Kazinskiy, V.A.:
On the estimation of the accuracy of the variometric method of measuring the deflection of plumb lines in the gravitational field of the earth.
Doklady Ak. N. SSSR, Vol. 54, 1946, pp. 131-134

25X1A5a1

Article in English
Theoretical discussion.

15. Kazinskiy, V.A.: K Istorii Izmereniy Tyazhesti v Rossii:
On the history of determination of the force of gravity in Russia.
Sbornik NTiPS, Vyp. 16, 1948, pp. 23-27
DLC QB301.R8 P-8
History of first determinations of L. Delisle and Lomonosov.

16.. Kazinskiy, V.A.: Astazirovannyy Gravimetr:
The Astacized Gravimeter.
Geodezist, Vol. 15, 1940, No. 2, pp. 21-27
DLC QB296.R813 MF 66-N P-102
Discussion of Ising's Gravimeter

17. Kazinskiy, V.A.: K Tekhnike Vychisleniya Sily Tyazhesti:
On the technique of calculation of the force of gravity.
Trudy Inst. Theoret. Geofiziki, Ak. N., Tom 2, Vyp. 2, pp. 108-111, 1947
DLC QC801.A4 P-208 MF74-M

18. Kazinskiy, V.A.: O Sootnoshenii mezhdu otkloneniyami otveza, gradiyentami i radinsami krivizny geoida:
On the correlation between the deflections of the vertical, gradients and radii of curvature of the geoid.
Trudy Inst. Teoret. Geofiz., Ak.N., Tom 2, Vyp. 2, pp. 112-114, 1947
DLC MF 74-M P-208

19. Kazinskiy, V.A.: O slozhenii kolebaniy dvukh gravimetricheskikh mayatnikov na korable:
On the composition of oscillations of two gravimetric pendulums on board ship.
Izv. Ak. N., SSSR, Ser. Geograf. i geofiz., vol. 8, 1944, pp. 393-405.
DLC AS262.A6246 MF 106-M P-178

20. Kazinskiy, V.A.: O kompensatsii vliyaniya vertikal'noy kachki korablya na sredniy period gravimetricheskogo mayatnika:
On the compensation of influence of ship rolling on the mean period of gravimetric pendulum.
Izvestiya Akademii Nauk SSSR, Ser. Geogr. i Geof. 1945, pp. 543-546
DLC AS262 A6246 MF 144-0 P-369

21. Kheyfets, M. E. : Pervyy Opyt Proizvoddstvennykh Rabot s Uprugimi Maytnikami:
First Experience of Organizing Work with Elastic Pendulums.
Sbornik NTiPS, Vyp. 1, 1941, pp. 119-131.
DLC QB301.R8 M F 150-A P-256
The pendulum is of the Lejay-Rudakovskiy type, but no description of it is given. 293 determinations of gravity were made by means of this pendulum and the results are analyzed.

22. Kheyfets, M. E.: Issledovaniye Uprugikh Mayatnikov:
Investigation of Elastic Pendulums.
Trudy TsNIIGAiK, Vyp. 66, 1949, pp. 93 R-74
Data for seven stations in the Kara-Kumy desert.

23. Khramov, D. N.: Ob Opredelenii Anamal'nykh Znacheniy Vertical'nogo Gradienta Sily Tyazhesti no Anamaliyam Sily Tyazhesti:
On the determination of anomalous Values of the vertical gradients of the force of gravity from the anomalies of the force of gravity.
25X1A5a1 Doklady Ak. N. SSSR Vol. 7, 1935, pp. 457-464
[redacted]
Abstract in German

24. Khramov, D. N.: K Gravimetricheskomu Vyvodu Ukloneniy Otvesa:
On the Gravimetric Deduction of the Deflection of the Vertical.
25X1A5a1 Byull. Inst. Theor. Astr., Vol. 4, 1949, No. 3, (56), pp. 126-133.
[redacted]
Theoretical.

25. Khramov. D. N.: K Voprosu o Vychislenii Popravki za Sokachanie dlya dvukh Mayatnikov, Kachayushchikhsya Odnovremenno v Odnoy Ploskosti.
On the question of calculation of correction for two pendulums swinging simultaneously in one plane.
Astron. Zhur., Vol. 12, 1935, pp. 271-274.
25X1A5a1 Russian text, abstract in English.
[redacted]
Derivation of the formula for correction for gravity pendulums.

26. Khramov, D. : K Praktike Vychisleniya Perioda Mayatnika po Izmereniyam Fotozapisi:
On the Practice of Computation of Pendulum's Period by Measurements of the Photographic Record.

Byull. Astr. Inst., No. 47, 1939, pp. 209-211.
[redacted] R-82
Study of the records of pendulum oscillations in application to measures of the force of gravity.

27. Khramov, D. N.: Nomogramma dlya Vychisleniya Popravki za Plotnost' Vosdukha pri Mayatnikovykh Nablyudeniyakh-Nomogram:
For the calculation of the Correction for the Density of the Air with the Pendulum Observation.

Byull. Astr. Inst., No. 37, 1935, pp. 288-289.
[redacted]
Reduction to vacuum in pendulum observation of gravity is calculated according to a complicated formula. A nomogram for this calculation is given.

28. Khramov, D. N.: O Primenenii formuly Stoksa i eye Analogov:
On the Application of the Formula of Stokes and of analogous formulae.
Byull. Astr. Inst. Akademi Nauk, No. 49, 1939, pp. 259-271.

Abstract in English
[redacted]
Study of the formulae proposed by Stokes, Saltykov, and Malkin for the reduction of the measures of the force of gravity.

29. Khramov, D. N.: Opyt primeneniya gipotezy chastichnoy izostaticheskoy kompensatsii:
Attempt of application of partial isostatic compensation.
Izv. Ak. N. Ser. Geogr. i Geofiz., Vol. 8, 1944, pp. 281-284.
DLC A262.A6246
Application to Caucasus region.

30. Khramov, A. I.: O gravimetricheskoy s"yemke v usloviyakh slozhnogo rel'yefa:
On the gravimetric survey in conditions of complex relief.
Prikladnya geofizika, Vyp. 3, 1947, pp. 139-149
DLC QC806.A518 M F 131-G P-373
Comparison of pendulum and gravimetric measures in Bashkiria

31. Kislov, A.L.: Geofizicheskaya izuchennost' zapadnykh oblastey USSR i BSSR:
Status of Geophysical study of Western areas of Ukraine and Belorussia.
Razvedka, Nedr 6, 1940, pp 50-55
DLC TN4-R23, Maps 65,66 and profile 29 MF 113-Q P-363

32. Kolbin, M.F.: Novyye danyye po geomorfologii, tektonike i gravitatsionnoy kharakteristike kupolovidnykh podnyatiy na pravoberezh'ye r. Volgi, nizhe g. Stalingrada:
New data on geomorphology, tectonics and gravitational characteristics on the Volga river.
Byulleten' Moskovs. Obshch. ispytat. prirody, 1948, pp. 83-91
DLC Q60.M8 MF 150-O P-189

33. Korzun, Lt. Colonel: Otnositel'nyya Opredeleniya Sily Tyazhesti na Kavkaze v 1909 Godu:
Relative determinations of the force of gravity in Caucasus in 1909.
Zap. V. T. O., Vol. 66, pt. II, 1911, pp. 37-59
DLC QB296.R8 P-69
Determinations of gravity at 11 points.

34. Korzun, Lt. Colonel: Otnositel'nyya Opredeleniya Sily Tyazhesti na Kavkaze v 1910 g.:
Relative determinations of the force of gravity in Caucasus in 1910.
Zap. V.T.O. Otdel. II, Vol. 67, pt. 2, pp. 115-134
DLC QB296.R8 MF 59-G
Gravity at 13 points based on Tbilisi.

35. Koshlyakov, N.S.: Primeneniye metoda Greena K resheniyu osnovnoy zadachi gravimetrii: Application of Green's method to the solution of the basic problem of gravimetry.
Trudy Mat. Inst. Ak. N, USSR, Vol. 4, 1933, pp. 71-76
DLC QA1.A4 MF 121-N P-365

36. Kovner, S.S.: Uspekhi Sovetskoy geofiziki za 25 let:
Progress of soviet geophysics for the last 25 years.
Izv. Ak. Nauk SSSR, Seriya Geograf. i Geofiz., 1943, pp. 1-28.
DLC AS262.A6246 MF 106-N P-179
Deals partially with gravity.

37. Kozlov, A.L. and Shipel'kevich, V.M.: Tektonicheskoye stroyeniye Nizhnego Zavolzh'ya po dannym geofizicheskikh issledovaniy:
Tectonic structure of the Lower Trans-Volga region on the basis of geophysical investigations.
Sovetskaya Geologiya, Sbornik 4, 1945, pp. 24-45
DLC QE1.P7 MF 121-B
Gravity anomaly map 45°-50° N; 45°-55° E, contour interval 25 mlg.

38. Kozlovskiy, B.: Resultaty Mayatnikovykh Nablyudeniy po Beregam Finskogo Zaliva:
Results of Pendulum Observation on the Shores of the Bay of Finland.
Byull. Astr. Inst., No. 34, pp. 22-222, 1933
25X1A5a1
Abstract in English
[redacted]
Gravity observation in 6 points on the Russian side of the Bay of Finland.

39. Kozlovskiy, B.: Nablyudeniya Sily Tyazhesti v Severo-Zapadnom Rayone v 1921 g.:
Observations of the force of gravity in the NW region, in 1921.
25X1A5a1
Byull. Astr. Inst., No. 5, 1924, pp. 26-27
[redacted]
Abstract in French
Gravity at 5 points S.W. of Leningrad.

40. Krasovskiy, F.N.: O nekotrykh nauchrykh Zadachakh astronomo-geodezii, v svyazi s izucheniyem stroyeniya tverdoy obolochki zemli:
On some scientific problems of geodetical astronomy in connection with the study of the solid surface of the earth.
Trudy Inst. Teoret. Geofiz., Ak. N. Tom 2, Vyp. 2, pp. 3-21, 1947
DLC QC801.A4 P-208 MF 74-M

41. Krasovskiy, F.N.: Rukovodstvo po Vysshey Geodezii:
Manual of Higher Geodesy
Part 2, 1942 MF 238-A P-566
Chapter 9, pp. 294-364 deals with application of gravimetry to the calculation of the deflection of the vertical.

42. Krasovskiy, T.N.: Uberlegungen uber die Bestimmung eines fur die geodatischen Arbeiten in der USSR geeigneten Ellipsoids:
Considerations on the determination of an ellipsoid suitable for geodetic measurements in USSR.
Baltic Geodetic Commission, 7th meeting, Comptes Rendus, pt. 2, pp. 174-192
German text
General considerations. Present status of the geodetic and gravimetric work in USSR.

43. Krasovskiy, F.N.: Zur Frage det gemeinsamen Anwendung astronomisch-geodatischen und gravimetrichen Material fur die Bestimmung der Gestalt des Geoids:
On the question of simultaneous application of astronomic-geodetic and gravimetric material to the determination of the shape of the geoid.
Baltic Geodetic Commission. Comptes Rendus, 9th meeting, pp. 199-202, 1937.
German text. No abstract.
Description of work carried out in USSR for the solution of this problem.

44. Kruglyakova, G.: O polozhenii pogrebennogo ba'yera mezhdu Moskvoy i Leningradom:
On the location of buried barrier between Moscow and Leningrad.
Neftyanoye khozyaystvo, 1947, No. 3, pp. 45-51
DLC TN860 N 465 2 profiles.(32,33) MF 165-AA P-333

45. Kuz'minov, G.: Otnositel'noye Opredeleniye Sily Tyazhesti v Moskva v 1926 g.:
Relative Determination of the Force of Gravity in Moscow in 1926.
[redacted]
Russkiy Astr. Zhurnal, Vol. 4, 1927, pp. 225-229

44 Bol'shaya Yakimanka, A. 55°43!8 N, 37°36!9 E, h 140 met. in the city of Moscow compared with Moscow University Observatory.
Observatory g 981.557, B. Yak. g 981.536.

46. Kazanskiy, T.A., Mikhaylov, A.A. and Numerov, B.V.: Katalog gravimetricheskikh punktov opredelennykh v SSSR do 1933 g.: Catalogue of Gravimetric points determined in USSR up to 1933. Gos. Trest Osn. Geodez. i Grav. Rabot, 1934, pp. 104
This catalogue carries 2716 gravimetric determinations.

1. Laymin, K.P.: Otnositel'nyye Opredeleniya Sily Tyazhesti v Zapadnoy Sibiri v 1915 godu:
Relative determinations of the force of gravity in Western Siberia.
Zap. V.T.O., Tom. 73, pt.2, pp. 55-80
DLC QB296.R8 MF 57-N P-71
Gravity at 13 points based on Omsk.

2. Laymin, K.P.: Otnositel'nyye Opredeleniya Sily Tyazhesti v Zapadnoy Sibiri v 1916 godu.:
Relative determinations of the force of gravity in Western Siberia in 1916.
Zap. V.T.O., Vol. 73, pt. 2, pp. 81-101
DLC QB296.R8 MF 57-N P-71
Gravity at 16 points based on Omsk.

3. Lazarev, P.: Magnitometricheskiye i gravitatsionnyye issledovaniya v rayone KMA:
Magnitometric and gravimetric observations in the region of Kursk Magnetic Anomaly.
Gornyy Zhurnal, God XCVIII No. 10-12, pp. 454-455, 1922
DLC TN4 G8 Mf 127-B P-376

4. Lizunov, S. M.: Opyt rabot po izgotovleniyu chetverekh-mayatnikovykh gravimetricheskikh priborov:
Experience in construction of four-pendulum gravimetric apparatus.
TsNIIGAiK, Sbornik No. 3, 1939, pp. 45-74.
AMS

5. Lukavchenko, P. I. and others : Gravimetricheskaya Razvedka Neftyanykh Mestorozhdeniy SSSR:
Gravimetric Oil Prospecting in the USSR.
Neftyanoye Khozyaystvo, Vyp. 11, 1947, p. 9
DLC TN860,N465 M F 105 P-162
General description of gravimetric methods and instruments. Gravity anomaly maps (a) of the middle course of the Volga River (between Saratov and Kuybyshev) and (b) Kuban' - Black Sea (44° - 48° N; 34°30' - 40°30' E), contour intervals 10 mlg. (c) Azeraydzhan.

6. Lukavchenko, P. and Ivanin, A. : Gravitatsionnyye raboty s variometrami v Prikaspiyskoy nizmennosti i Turkmenskoy SSR:
Gravity work with variometers in the Caspian Depression and Turkmen Republic.
Razvedka Nedr. 2-3, 1940, pp. 41-47
DLC TN4 R23, Maps 57, 58, 59, 60. M F 113-Q P-363

7. Lukavchenko, P. I. and Sazhina, N. B.: Kvartsevyy gravimetr Isinga i result'taty nablyudeniy s nim v Ivanovskoy oblasti:
Ising Quartz gravimeter and results of observations in Ivanovo Oblast'.
Razvedka Nedr. 9, 1940, pp. 37-46
DLC TN4 R23 M F 113-S P-363
Two profiles, general description of operation.

8. Lyustikh, Ye. N.: Opyt interpretatsii Moskovskoy gravitatsionnoy anomali:
An attempt of interpretation of the Moscow gravity anomaly.
Sovetskaya Geologiya, Sb. No. 28, 1948, pp. 124-139.
DLC QE1.P7 M F 121.D P-364
Gravity anomaly map 54°-57°10'N; 36°-39°E. Contour interval 10 mlg.

1. Magnitskiy, V. A. O Reduktsiyak Sily Tyazhesti:
On the Reduction of the Force of Gravity.
Trudy TsNIIGAiK, Vyp. 51, 1948, pp. 46-61
DLC QB275.M64 P-78 and R-34
Discussion of various methods of reduction, including those of Malkin and Molodenskiy.

2. Magnitskiy, V. A.: K voprosu o vydelenii lokal'nykh gravitatsionnykh anomaliy:
On the problem of separation of local gravity anomalies.
Izv. Ak. N., Ser. Geograf. i Geofiz., Vol. 13, 1949, pp. 556-562
DLC AS262.A6246 MF 105-CC P-166
Example of treatment: The Samara bend of the Volga.

3. Magnitskiy, V. A.: Issledovaniye shirokikh voln geodia putem sovmestonogo ispol'zovaniya geodezicheskikh i gravimetricheskikh dannykh: Investigation of undulations of the geoid by the use of geodetic and gravimetric data.
Izvestiya Akademii Nauk SSSR, Ser. Geograf. i Geofiz., Vol. 13, No. 3, 1948, pp. 213-216
DLC AS262 A6246 M F 135-F P-383

4. Makarov, N. P.: K Voprosu o Reduktsii Sily Tyazhesti dlya Opredeleniya Figury Geoida:
On the problem of reduction of force of gravity for the determination of the figure of the geoid.
Trudy Astr. Obs. Kazanskogo Gos. Univ., Vol. 28, pp. 33-95, 1936
Abstract in English
[redacted]
General review of existing methods for reduction of the force of gravity. Rudzki's method is applied to an example.

5. Malkin, N.:
Conditions for use of Stokes' formula in determining the Earth figure from observations of gravity.
Doklady Ak. N. SSSR, Vol. 35, 1942, pp. 8-10.
[redacted]
Article in English

6. Malkin, N. : O Primenenii i Tochnom Vychislenii Reduktsii Preya-Puankare:
On the application and exact calculation of the Prey-Poincare reduction.
Byull. Astr. Inst. No. 47, pp. 189-203, 1939.
25X1A5a1
Abstract in English
[redacted]

Discussion of the methods of Prey and Poincare for the reduction of the force of gravity in case of a non-regularized earth.

7. Malkin, N.: Sur La Determination du Geoide d'Apres les Observations Gravimetriques:
On the determination of the geoid from gravimetric observations.
Astronomicheskiy Zhurnal, Vol. 16, 1939, pp. 67-72.
25X1A5a1
French text, abstract in Russian.
[redacted]

Theoretical investigation.

8. Malkin, N.: Ob Opredelenii Vertical'noy Proizvodnoy Sily Tyazhesti is Nablyudeniy s Krutil'nymi Vesami:
On the determination of the vertical derivative of the force of gravity from observations with a torsion+balance.
Astr. Zhur., Vol. 13, pp. 495-498, 1936.
25X1A5a1
Russian text, abstract in French.
[redacted]

Derivation of formulae for the gravity observations with torsion balance,

9. Malkin, N.: O Vybore Poverknosti Reduktsii Gravitatsionnykh i Geodezicheskikh Izmereniy:
On the choice of surface of reduction of gravity and geodetic measurements,
Astr. Zhurn., Vol. 12, 1935, pp. 360-367.
25X1A5a1
Russian text, abstract in English.
[redacted]

Theoretical discussion of various methods of reduction.

10. Malovichko, A. K.: Sposob analiticheskogo prodolzheniya gravitatsionnykh anomaliy:
Method of analytical extension of gravity anomalies.
Izvestiya Akademii Nauk SSSR, Ser. Geofiz. No. 1, 1952 pp. 35-39
DLC QC801.A35 M F 164-K P-395

11. Markovskiy, D. F.: Priblizhennye Ellipsoidnye Figury Ravnovesiya Vrashchayushcheyaya Zhidkosti i ikh Prilozheniya k Gravimetrii: Approximate Ellipsoidal figures of rotating fluid and their application to gravimetry.
Astr. Zhurn. Vol., 10, pp. 51-82 and 202-239, 1935.
25X1A5a1 Abstract in English
[redacted]
Detailed theoretical investigation of the figures of equilibrium. Derivation of formulae for the force of gravity.

12. Migal', N.:
A few words on the reduction of gravity.
25X1A5a1 Doklady Ak. N. SSSR, Vol. 23, 1939, pp. 145-146.
[redacted]
Article in English,
Theoretical.

13. Migal', N.:
On the determination of gravity anomalies from the astronomical-geodetical deflection of the plumb line.
25X1A5a1 Doklady Ak. N. SSSR, Vol. 21, 1938, pp. 232-234.
[redacted]
Article in English,
Theoretical treatment.

14. Migal', N. : Vyvod Tochnoy Formuly Uskoreniya Sily Tyazhesti na Urovennoy Poverknosti, imeyushchey figuru Trekhosnogo Ellipsoida:
Derivation of exact formula for the acceleration of the force of gravity on the surface of the triaxial ellipsoid.
Astron. Zhurn., Vol. 14, 1937, pp. 531-534.
25X1A5a1 Abstract in English,
[redacted]
Theoretical investigation. If the figure becomes a spheroid the derived formula is reduced to the one derived previously by Somigliana.

15. Migal', N. K.: Uber die Bestimmung der Lotablendung aus den Anomalien im Horizontalgradienten der Erdachwere:
On the determination of the deflection of the Vertical from the anomalies in the horizontal gradient of the Earth's gravity.
25X1A5a1 Doklady Ak. N. SSSR, Vol. 16, 1937, pp. 169-171.
[redacted]
Article in German.

16. Mikhaylov, A. A.: Spisok Gravimetricheskikh Punktov, Opredelennykh v 1921-1925 gg. v Rayone Kurskoy Magnitoy Anomalii:
List of Gravimetric points determined in 1921-1925 in the region of the Kursk Magnetic Anomaly.
25X1A5a1 Russkiy Astron. Zhurnal, Vol. 5, 1928, pp. 183-186.
[redacted]
Abstract in German
List of 55 points 50°51' -51°52'N; 36°30' - 37°36' E, in detailed reduction.

17. Mikhaylov, A. A. : Tablitsy dly Privedeniya Sily Tyazhesti po Metoda Kondensatsii:
Tables for the reduction of the Force of Gravity by the Condensation Method.
Uch. Zap. Mosk. Univ., Vyp. 101, 1945, pp. 71
25X1A5a1 Abstract in English.
[redacted]
Introduction occupies the first 18 pages.

18. Mikhaylov, A. A. : O Gravitatsionnykh Rabotakh v SSSR:
On Gravity Work in the USSR.
25X1A5a1 Russkiy Astron. Zhurnal Vol. 4, 1927, pp. 294-297
[redacted]
Abstract in German. Review of gravimetric measures 1921-1926.

19. Mikhaylov, A. A.: Ein statischer Schweremesser:
A static gravity measuring apparatus. Development of apparatus along the lines first proposed by H. Haalck. At present such an apparatus cannot give sufficiently precise data.
German text.
25X1A5a1 Baltic Geodetic Commission, 7th meeting. Comptes. Rendus, pt. 2, pp. 232-239, 1935.
[redacted]

20. Mikhaylov, A.: Bericht uber die gravimetrischen Arbeiten:
Report on gravimetric work.
Baltic Geodetic Commission, Comptes Rendus, 9th meeting, 1937, pp. 109-113.
German text.
Report on work carried out in 1935. Altogether during the year, 1262 gravimetric stations were established.

21. Mikhaylov, A. A. : Bericht uber die gravimetrischen Arbeiten:
Report on gravimetric work.
Baltic Geodetic Comm., 8th meeting, Comptes Rendus, 1936, pp. 95-99
German text.
Report on gravimetric work carried out in USSR in 1934. During the year 22 expeditions were sent out, total number of gravity stations determined during the year, 1075.

22. Mikhaylov, A. A. : Gravimetricheskiye Raboty v SSSR:
Gravimetric work in the USSR.
Sbornik NTiPS, Vyp. 5, 1941, pp. 49-59
DLC QB301-R8 R-5
The status of gravimetry in USSR is discussed. The catalogue now in print (1944) gives gravity measures for 9,052 points. Total number of gravity measures on Jan. 1, 1942, on the territory of the USSR was 12,377. The goal is to get at least one gravity measure per 1,000 sq. km., that is about 25,000 for the USSR.

23. Mikhaylov, A. A.: Uber die Anwendung der Formel von Stokes and die dabei gebrauchende Reduktion der Schwerkraft:
On the application of Stokes' formula and the necessary for this purpose reduction of the force of gravity.
Baltic Geodetic Commission, 8th meeting, Comptes Rendus, 1936, pp. 207-231.
German text.
The reduction of Prey-Poincare cannot be used when Stokes' formulae are applied, Numerical examples.

24. Mikhaylov, A. A.: Dvadtsat' Let Sovetskoy Gravimetrii:
Twenty years of Soviet Gravimetry.
[redacted] Zhurn., Vol. 14, 1937, pp. 403-412.
[redacted]
Survey of the development 1917-1937. By the end of 1936 over 7000 gravimetric points were determined. In 1937, 2000 more are planned.

25. Mikhaylov, A. : Uspekhi gravimetrii:
Progress of gravimetry.
Front nauki i tekhniki, No. 7, 1937, pp. 47-58.
DLC Q4 F7 M F 138-D P-261

26. Mikhaylov, A. A. : Sovermennoye sostoyaniye gravimetricheskikh rabot v Soyuze:
Present status of gravimetric work in the Union.
Mirovedeniye, tom 21, No. 6, 1932, pp. 41-44
DLC QB1 R933 M F 155-N P-397/

27. Mikhaylov, N. N.: Uchet iskazhayushchikh anomaliy pri rabotakh s gravitatsionnym variometrom:
Taking into account disturbing anomalies in work with gravity variometer.
Problemy Arktiki, No. 1, 1940, pp. 88-93
DLC G600 P7 M F 121-0 P-366

28. Mikhaylov, N. N.: Zastosuvannya mas nayprostishikh geometrichnikh form do geologichnoy interpretatsii gravitatsiynikh sposterezhen':
Interpretation of gravity observations
Geologichniy Zhurnal, vol. 7, vyp. 1-2, 1940, pp. 181-230
DLC QE1 G49145, M F 146-Q P-427

29. Mironov, S. : Novo-Bogatinskoye Mestorozhdeniye Nefti:
Novo-Bogatinsk Oil Deposits.
Neftyanoye Khozyastvo, Vol. 12, No. 5, 1927, pp. 653-659
DLC TN860 N465, Map 97, M F 164-F P-398

30. Moiseyev, N. : O Reduktsii Sily Tyazhesti na Poverknost' Geoida:
On the reduction of the force of gravity on the surface of the geoid.
Astr. Zhurn., Vol. 10, 1933, pp. 430-432.
25X1A5a1 in English.
[redacted]
A new elementary derivation of the Prey-Poincare formula for the reduction of the force of gravity.

31. Moiseyev, N.: Ob Opredelenii Otkloneniya Otvesa dlia Neregulyarizovannoy Zemli:
On the determination of plumb-line deflection on the non-regularized earth.
Astr. Zhurn., Vol. 11, 1934, pp. 379-384.
25X1A5a1
[redacted]
Abstract in English
Formulae for the deflection of vertical if the gravity anomalies are known.

32. Moiseyev, N.: Opredeleniye Figury Geoida Neregularizovannoy Zemli:
Determination of the figure of the geoid of the non-regularized earth.
Astr. Zhurn., Vol. 10, 1933, pp. 421-429.
25X1A5a1
Abstract in English.
[redacted]
Derivation of formulae in case the inner or extraneous masses over theadopted geoid are not removed.

33. Molodenskiy, M/ S. : Osnovnyye Voprosy, Svyazannyye s Vypolneniyem Astronoma-Gravimetricheskogo Nivelirovaniya na bol'shoy Territorii:
Fundamental Problems connected with the organization of astronomic-gravimetric leveling in a large territory.
Sbornik NTiPS, Vyp. 4, 1944, pp. 3-11.
DLC QB301.R8 R-4
Theoretical.

34. Molodenskiy, M. S. : Raboty po Gravimetricheskomu Instrumentostroyeniyu:
Work on construction of gravimetric instruments.
Geodezist, Vol. 15, 1940, pp. 21-22 No. 5.
DLC QB296.R813 M F 68-0 P-102

35. Molodenskiy, M. S.: O Reduksii Sily Tyazhesti k Urovnyu Morya dly Neregulyanizovannoy Zemli:
On the Reduction of the Force of Gravity to Sea-Level for the non-regularized Earth.
Trudy TsNIIGAiK, Vyp. 11, 1936, pp. 73-81
DLC QB275.M64 M F 74-H P-123
Abstract in English
Theoretical discussion of the problem.

36. Molodenskiy, M. S.: Bestimmung der Gestalt das Geoida unter gemeinsamer Anwendung Astronomischgeodätischer Lotabweichengen und Schwerestorungen: Determination of the shape of geoid with simultaneous application of astronomic-geodetic deflection of the vertical and gravity deviations. Baltic Geodetic Commission, Comptes Rendus, 9th meeting, pp. 203-223, 1937.
German text.
For this problem astronomical points should be 70-100 km. distant from each other on plains, 10-20 km. in mountainous regions.

37. Molodensky, M. S. and Fedynskiy, V. V. : Tridsat' Let Sovetskiy Gravimetrii (1917-1947):
Thirty years of Soviet gravimetry (1917-1947).
Izv. Ak. N., Ser. Geogr. & Geofiz., Vol. 9, 1947, pp. 395-408
DLC AS262.A6246 P-32
A detailed review of the status of gravimetry, field work, theoretical investigations and instrumentation.

38. Molodenskiy, M. S.: Opredeleniye Figury Geoida pri sovmestnom ispol'zovanii astronomo-geodizicheskikh ukloneniy otvesa i karty anomaliy sily tyazhesti: Determination of the Figure of the Geoid by means of astronomic-geodetic deflections of the vertical and of a map of gravity anomalies.
Trudy TsNIIGAiK, Vyp. 17, 1937, pp. 9-32.
NNA 704; DLC 275.M64 M F 86-H P-150
Abstract in English

39. Molodenskiy, M. S. and Lozinskaya, A. M.: Astronomo-gravimetricheskoye nevilirovaniye po 51-y i 55-y pararellelyam ot 30-go do 56-go meridiana: TsNIIGAiK, Sbornik No. 3, 1939, pp. 26-45. Astronomic-gravimetric leveling along the 51-st and 55-th parallel from 30-th to 56-th meridian.

40. Molodenskiy, M. S.: Vneshneye gravitatsionnoye pole i figura fizicheskoy poverknosti zemli:
External gravity field and the figure of the physical surface of the earth.
Izvestiya Akademii Nauk SSSR, Ser. Geogr. i Geofiz., Vol. 13, No. 3, 1948, pp. 193-21
DLC AS262 A6246 M F 135-F P-383

41. Molodenskiy, M. S. : Gravimetriya:
Gravimetry.
25X1A5a1 Bol. Sov. Entsiklopediya, Vol. 12, 1952, pp.374-378
[redacted]
An excellent exposition of the status of gravimetry in the USSR

42. Molodenskiy, M. S.: Osnovnyye Voprosy Geodezicheskoy Gravimetrii:
Basic problems of geodetic gravimetry.
Trudy TsNIIGAiK, Vyp. 42, 1945, pp. 107 R-49
Detailed exposition of application of gravity data to geodetic problems.
Two maps of influence of zones 300-1000 km. for the derivation of the deflection of the vertical, extending to longitude 82°E.
One map of the elevation of the geoid over the Krasovskiy ellipsoid covering the same area.

43. Molodenskiy, M. : Zur Aufgabe der Berucksichtgung der Mitschwingens des Stativs bei Gegeneinanderschwingen sweier Pendel:
On the problem of allowance for the oscillation of support with two oppositely swinging pendulums.
Baltic Geodetic Commission, 7th meeting, Comptes Rendus, pt. 2, pp. 307-318, 1935.
German text.
Theoretical investigation of the problem.

44. Monin, I. F.: K Voprosu Issledovaniya Figury Geoida Gravimetricheskim Sposobom:
On the problem of Investigation of the Figure of the Geoid by Gravimetric Method.
Izv. Ak. N. SSSR, Ser. Geofizich., 1952, No. 2, pp-38-45
DLC QC801.A35 MF 190-A P-493
Study of N. K. Migal's formula. AMS translation available.

45. Mudretsova, E. A.: Izostaziya i yeye rol' v deformatsiyakh Zemnoy Kory:
Isostasy and its role in the deformation of the terrestrial crust.
Trudy Soveshchaniya po Metodam Izucheniya Dvizheniy i Deformatsiy Zemnoy Kory, Geoizdat, 1948, pp. 80-90 R-52
Gravity anomaly map of central Asia, 36°55' - 42°42'N; 63°10'-74°05'E based on 167 gravity points reduced isostatically.
Gravity profiles: Bogorak-Sarykamysh (37°37'N; 69°50'E -41°46'N; 73°54')
Kurgovad-Andizhan (38°25'N; 71°05'E -40°45'N; 72°22'E)
Surkhan-Chaadag (37°44'N; 67°31'E -40°57'N; 70°45'E)

46. Mushketov, D. I. and Nikiforov, P. : Gravimetric and Seismic Expedition to Central Asia.
Article in English.
Trudy Seys. Inst. No. 1, 1930 pp. 499-502
DLC QE531.A45 M F 59-H
Gravity at 16 points in Fergana Valley determined in 1928.

1. Nechiporenko, P. K.: Do Pitannya Pro Geologichne Tlumachennya Gravitatsionnykh Anomaliy:
Geologic Interpretations of Gravitational Anomalies.
Analy Astronomichnoy Observatorii, Kiev. Vol. 6, pt. 2, pp. 147-167, 1936.
25X1A5a1 Ukrainian text, abstract in Russian and English.
[redacted]
Article of a general nature on the necessity of isostatic compensation based on detailed discussion of Crimea, Caucasus and Ukraine.

2. Nechiporenko, P. K.: Vyznachennya Zburen' Drugikh Pokhidnykh Potentsiala Prityaganiya:
Evaluation of Perturbations of second derivatives of the potential of attraction.
25X1A5a1 Analy Astronomichnoy Observatorii, Kiev., Vol. 6, pt. 2, pp. 115-146, 1936.
Ukrainian text, abstract in Russian and English.
[redacted]
Evaluation of topographic influence on the force of gravity. Use of Leontovskiy's device for calculation.

3. Nechiporenko, P. K.: Gravitatsionnaya karta Ukrainy:
Gravity map of Ukraine.
Problemy Sovetskoy Geologii, Tom 5, No. 11, 1935, pp. 1035-1043.
DLC QE1.P7 M F 98-H P-170
Based on 450 gravity anomalies. Two maps of isogams (free-air and Bouger), contour interval 10 mlg. Local anomaly at Dovzhik (near Chernigov) + 104 mlg.

4. Nepomnyashchikh, A. A.: Logarifmicheskiye Gravitatsionnye Paletki:
Logarithmic Gravitatsional Nomograms.
Izv. Ak. N. SSSR, Ser. Geofiz. 1952, No. 1, pp 40-46
DLC Slavic Unclass. M F 164-K P-395

5. Neklyudova, N. F.: Ob odnom metode operdeleniya figury Zemli:
On a method of determination of the shape of the Earth.
25X1A5a1 Byull. Inst. Teor. Astron., Vol. 4, 1950, No. 8, (61), pp. 408-412.
[redacted]
Theoretical discussion of formulae of Stokes and of Molodenskiy.

6. Nikiforov, P. M.: Problema izostazii:
Problems of isostasy.
Doklady Sov. Deleg. VII Konf. Baltiyskoy Geodz. Komissii, Vyp. 7, 1934.
pp. 53-59
DLC QB281.K6 M F 65-0
General consideration of the problem.

7. Nikoforov, P. : L'anomalie de la gravite dans la region de Kursk:
Gravity anomalies in the region of Kursk.
Izv. Fiziko-Mat. Inst. Ross.
Akademii Nauk, tom I, 1,1922
DLC Slavic Uncl. pp. 1-57 M F 168-D P-305

8. Nikitin, M. P.: Opredeleniye Sily Tyazhesti v Vostochnoy Sibiri v 1915 godu:
Determination of the force of gravity in Eastern Siberia in 1915.
Zap. V. T. O. Vol. 73, pt. II, pp. 103-118
DLC QB296.R8 M F 58-A P-71
Gravity at 12 points based on Irkutsk.

9. Numerov, B. V. : Reduktsiya Nablyudeniy Gravitatsionogo Variometra za Topografiyi:
Correction of the observations with a gravitational variometer for Topography.
Byull. Astr. Inst. No. 17, 1927, pp. 193-210
25X1A5a1
Abstract in English.
[redacted]
Treatment of observations made with a torsion-balance variometer.
Extensive tables. 2 diagrams.

10. Numerov, B. : Issledovanie Temperaturnogo i Dinamicheskogo Koeffitsientov Pribora Shtyukratta:
Investigation of thermal and dynamical coefficients of Stuchrath' apparatus.
Byull. Astr. Inst., No. 6, 1925 pp. 38-40.
25X1A5a1
Abstract in French.
[redacted]
Investigation of Stuckrath's pendulums used for gravimetric work.

11. Numerov, B.:
On the problem of the Determination of the Geoid on the Basis of Gravity Observation,
Doklady Ak. N. SSSR, Vol. 6, 1935, No. 1, pp. 21-25
Development of a method for calculation of the derivatives of the force of gravity with respect to height. Reduction to a height of 500 meters.
25X1A5a1
Article in English
[redacted]

12. Numerov, B. V.: K Voprosu of opredelenii geoida na osnovanii gravitatsionnykh nablyudeniy:
On the problem of determination of the geoid on the basis of gravimetric observations.
25X1A5a1
Doklady Ak. N. SSSR, Vol. 6, 1935, pp. 1722.
[redacted]
Abstract in English
Discussion of various methods of reduction.

13. Numerov, B. V.: Grundsatze der Methodik der Bestimmung des Geoids auf Grund Gravimetrischer und Astronomisch-geodatischer Bedbachtungen:
Foundations of methods for the determination of the figure of the geoid from gravimetric and astronomic-geodetic observations.
25X1A5a1
Doklady Ak. N. SSSR, Vol. 12, 1936, pp. 269-270
[redacted]
In German
General consideration of the problem.

14. Numerov, B. V.: Resultaty Gravitatsionnykh Nabl'yudeniy v Groznenskom Rayone v 1928 godu:
Results of gravimetric observations in the Region of Grozny in 1928.
Byull. Astr. Inst., No. 23, 1929, pp. 21-23.
25X1A5a1
Abstract in German
[redacted]
Report on large program of gravimetric observations in the region of North Caucasus. Actual data published elsewhere, (see No. 33). Small scale map of anomalies.

15. Numerov, B. : Uchet Vliyaniya Topograficheskikh Mass Na Nabliudeniya S Gravitatsionnym Variometrom:
Calculation of the Effect of Toppgraphic Masses on the Observations with a Gravitational Variometer.
Byull. Astr. Inst., No. 26, 1931, pp. 60-67
25X1A5a1
Abstract in English
[redacted]
Tables for calculation of the effect of the outside gravitational masses for work with a torsion balance.

16. Numerov, B. V.: Gravitatsionnyy Varimetr s Tremya Rychagami: Gravitation Torsion Balance with three arms.
Byull. Astr. Inst, No. 30, pp. 103-107, 1931.
25X1A5a1
Abstract in English
[redacted]

A new variometer developed by Numerov and constructed by the Bamberg Firm in Germany. Two half-tones showing the instruments.

17. Numerov, B. : Opredeleniye Sily Tyazhesti na Belom 1921 goda: Determination of the force of gravity on the White Sea in 1921.
Byull. Astr. Inst., No. 5, 1924, pp. 25-26
25X1A5a1
Abstract in French
[redacted] 25X1A5a1 [redacted]

Gravity on island, Khabarka (64°36'N; 40°43'E) and Sosnovets (66°29'N; 40°44'E).

18. Numerov, B. : Obshchaya Kharakteristika Gravitatsionnogo Metoda Razvedki po Rabotam b. Geologicheskogo Komiteta 1925-28 g.:
General description of Gravitational Methods of Survey based on the work of the former Geological Committee in 1925-1928.
Trudy Glavnogo Geologo Razv. Upr., Vyp. 36, 1931 pp. 3-8
DLC QE276.A163 Also NNA 704
85 pendulum measures and 4, 543 variometer measures were made. Several articles on gravimetric methods and practice follow this general survey (see N25-N35; A15 and S15).

19. Numerov, B.: Normal'noye Deystviye Zemnogo Ellipsoida Na Proizvodnye ot Potentsiala Sily Tyazhesti:
Normal Effect of Earth Ellipsoid on the Derivatives of the Potential of the Force of Gravity.
Byull. Astron. Inst., No. 26, 1931, pp. 59-60
25X1A5a1
Abstract in English.
[redacted]

Short Theoretical note on the calculation of the intensity of gravity as a function of latitude.

20. Numerov, V.: Interpretatsya Gravitatsionnykh Nablyudeniy:
Interpretation of gravimetric observations.
25X1A5a1
Byull. Astr. Inst., No. 15, 1927, pp. 1[redacted] 25X1A5a1
[redacted]

Three methods for the reduction of the observed force of gravity are discussed. Two diagrams in the text.

21. Numerov, B. : Vychisleniye Ukloneniya Otvesa i Vtorykh Proizvodnykh ot Potentsiala po Nablyudeniyam Sily Tyazhesti:
Calculation of the Deviation of Plumb-Line and of Second Derivatives of the Potential from observation of the force of Gravity.
Byull. Astr. Inst. No. 34, 1933, pp.195-212.
25X1A5a1 Abstract in English.
[redacted]

Derivation of the formulae and an example of calculation. The derivatives may be calculated by using a gravity map with isograms or from the observations with a torsion-balance.

22. Numerov, B. V.: Grafichеskiy Metod Ucheta Topograficheskoy Popravki i Vliyaniya Podzemnykh Mass na Gravitatsionnyye Nablyudeniya:
Graphic Method of calculation of the topographic correction and the influence of subetrraneous masses on gravimetric observations.
Astro. Zhurn., Vol. 2, No. 4, pp. 32-36, 1925.
25X1A5a1 Abstract in German.
[redacted]

Corrections to gravimetric observations with torsion balance are evaluated graphically.

23. Numerov, B. V. and Khramov, D. N.: Ob Opredelenii Figury Geoida Na Osnovanii Nablyudeniy Sily Tyazhesty:
On Determination of the Figure of the Geoid on the basis of observation of the Force of Gravity.
Byull. Astr. Inst., No. 40, 1936, pp. 385-397.
25X1A5a1 Abstract in German.
[redacted]

Development of the potential of the force of gravity by means of spherical harmonics including the terms of fourth order.

24. Numerov, B. V. and Khramov, D.: Uber die Bestimmung der Figur des Geoids Schwere-Messungen:
On the determination of the figure of the geoid on the basis of gravity measures.
25X1A5a1 Bokiady Ak. N. SSSR, Vol. 12, 1936, pp. 265-268
[redacted]

In German.
Development of expression for force of gravity as a function of latitude and longitude.

25. Numerov, B. : Teoreticheskiye Osnovaniya Primeneniya Gravitatsionnykh Metodov v Geologii:
Theoretical foundation for the application of gravimetric methods in geology.
Trudy Gl. Geologo-Razv. Upr. Vyp. 36, 1931, pp. 9-26 M F 185-B
DLC QE276.A163 NNA 704 P-301

26. Numerov, B.: Osnovnyye Formuly dlya obrabotki nablyudeniy s gravitatsionnym variometrom:
Basic Formulae for the reduction of observations made with a variometer.
Trudy Gl. Geologo-Razv. Upr., Vyp. 36, 1931, pp. 27-41
DLC QE276.A163 NNA 704 M F 185-B P-301

27. Numerov, B. : Normal'noye Deystviye Zemnogo ellipsoida na proiz vodnyye ot potentsiala sily tyazhesti:
Normal effect of the terrestrial ellipsoid on the derivatives of the gravity potential.
Trudy Gl. Geologo-Razv. Upr., Vyp. 36, 1931, pp. 42-50
DLC QE276.A163 NNA704 M F 185-B P-301

28. Numerov, B. : Reduktsiya nablyudeniy gravitatsionnogo variometra za topografiyu:
Reduction of observations of gravity variometer for topography.
Trudy Gl. Geologo-Razv. Upr., Vyp. 36, 1931, pp. 51-73
DLC QE 276.A163 NNA704 M F 185-B P-301
Theoretical..Tables for reduction.

29. Numerov, B.: Analiticheskiy metod ucheta vliyaniya topograficheskikh mass:
Analytical method of calculating the influence of topographic masses.
Trudy Gl. Geologo-Razv. Upr. Vyp. 36, 1931, pp. 74-85
DLC QE276.A163 NNA704 M F 185-B P-301

30. Numerov, B. : Vliyaniye vneshnikh mass na gravitatsionnye nablyudeniya v sluchaye beskonechnogo prostiraniya:
Influence of extraneous mass on gravity observations in the case of infinite extension.
Trudy Gl. Geolog-Razv., Upr., Vyp. 36, 1931, pp. 97-107
DLC QE276.A163 NNA704 M F 185-B P-301

31. Numerov, B. : Rezul'taty gravitatsionnykh nablyudeniy na Shuvalovskom ozere zimoy 1927-1928 gg.:
Results of gravity observations on Lake Shuvalovskoye during the winters of 1927-1928.
Trudy Gl. Geologo-Razv. Upr. Vyp. 36, 1931, pp. 108-125
DLC QE276. A163 NNA 704 M F 185-B P-301
189 variometer observations on ice of the lake (near Leningrad).
Maps of gradients. (No. 84)

32. Numerov, B.: Gravitatsionnye nablyudeniya v Solikamskom i Bereznyakovskom rayonnakh na severnom Urale v 1926-1927 gg.:
Gravity observations in Solikamsk and Bereznyakovskiy regions of the North Urals in 1926-1927.
Trudy Gl. Geologo-Razv. Upr., Vyp. 36, 1931, pp. 126-139
DLC QE276.A163 NNA704 M F 185-B P-301
Maps of gravity gradients (3 x 4 km.) based on 362 variometric observations around Solikamsk and reference to 336 observations made near Bereznyaki.

33. Numerov, B.: Rezul'taty gravitatsionnykh nablyudeniy v Groznenskom rayone v 1928 g.:
Results of gravity observations in the Grozny region in 1928.
Trudy Gl. Geologo Razv., Upr. Vyp. 36, 1931, pp. 140-147
DLC QE276.A163 NNA704 M F 185-B P-301
Date on 14 pendulum observations and reference to 802 variometer observations. Maps of gravity anomalies 43°-45'N; 14°-17'E (Pulk.).
Maps 123, 124, also coordinates.

34. Numerov, B. and Samsonov, N. : Rezul'taty gravitatsionnykh nablyudeniy bliz ozera Baskunchak v 1928 g.:
Results of gravity observations near Lake Baskunchak in 1928.
(48°05' - 48°20'N);
46°45'-47°E).
Trudy Gl. Geologo-Razv. Upr., Vyp. 36, 1931, pp. 148-151
DLC QE276.A163 NNA 704 M F 185-B P-301
Reference to 268 variometric observations in the neighborhood of the lake. Map of gravity anomalies, 5 x 5 km.

35. Numerov, B. amd Kozlovskiy, B.: Rezul'taty gravitatsionnykh nablyudeniy v Embenskom rayone 1927-1928gg.:
Results of gravity observations in Emba region in 1927-1928.
Trudy G. Geolog.-Razv. Upr., Vyp. 36, 1931, pp. 132-134
DLC QE276.A163 NNA 704 M F 185-B P-301
Reference to 1978 variometer observations in this region.
(47°15'-47°40'N; 52°30' -53°15'E). Map of gravity anomalies 30 x 15 km., including Dossor, Bursay, Tyulegen', Baychiunas, Iskene and Tuboyak.

36. Numerov, B. : Rezul'taty gravitatsionnykh nablyudeniy na Shuvaloskom ozere zimoy 1927 i 1928 gg.:
Results of gravity observations on Lake Shuvalovo in the winter of 1927 and 1928.
Gornyy Zhurnal, God izd. 106, No. 12, pp. 108-117, 1930
DLC TN4.G8 M F 127-E P-378
Map 84, 5 sketches on Lake Shuvalovo. Shuvalovo village: 60°04'N 30°17'E. (Russian 1:100,000, sheet P-36-133 - Shuvalovo ozerki).(SeeN p.6, No. 31, M F 185-B)

37. Numerov, B. : Rezul'taty gravitatsionnykh nablyudeniy v Solikamskom i Bereznyakovskom rayonakh v 1926, 1927, 1929 gg.
Results of gravimetric observations in Solikamsk and Berezniki regions .
Gornyy Zhurnal, Vol. 106, No. 8-9, pp. 104-111, 1930
DLC TN4.G8 M F 127-D P-378

38. Numerov, B. Rezul'taty opredeleniya sily tyazhesti na vostochnykh sklonakh Urala:
Results of determination of force of gravity in the Eastern slopes of Ural.
Gornyy Zhurnal, Vol. 107, No. 6, p. 51, 1931
Gravity at 28 points.
DLC TN4.G8 MF 127-F P-379

39. Numerova, V. : Primeneniye Vertikal'nogo Mayatnika Golitsyna k Opredeleniyu Sily Tyazhesti:
Application of Galitsyn's Vertical Pendulum to the Determination of the Force of Gravity.
Byull. Astr. Inst. No. 37, 1935, pp. 279-287.
25X1A5a1 Abstract in English.
[redacted]
Formulae for the use of Galitsyn's Seismic Pendulum for gravity measures.

40. Numerova, V.: Teoriya Gravimetra-Poplavka Noorgaard'a:
Theory of Floating Gravimeter of Noorgaard.
Byull. Astr. Inst., No. 40, 1936, pp. 297-407.
25X1A5a1 Abstract in English.
[redacted]
Theory of the Noorgaard Gravimeter is developed. Formulae for the adjustment of the position of equillibrium.

41. Numerova, V. : Opredeleniye Popravok za Sokachaniye Shtativa pri Odnovremmennom Nablyudanii Mayatnikov, kachayushikhaya v perpendikullyarnykh Ploskostyakh:
Determination of Corrections for Pendulums Swinging in Perpendicular Planes.
Byull. Astr. Inst., No. 49, 1939, pp. 247-259
25X1A5a1 Abstract in English.
[redacted]
Study of interaction of pendulums used for the determination of the force of gravity.

42. Numerova, V. V. and Khramov: O Raschete i Podgonke Minimal'nykh Mayatnikov.
On the design and regulation of minimal pendulums. Pendulums used for gravity surveys: Theoretical treatment.
Abstract in German.
25X1A5a1 Astr. Zhurn. Vol. 12, pp. 205-215, 1935.
[redacted]

1. Ochapovskiy, B.L.: Gravimetricheskiy Raboty na Pamire:
Gravimetric work in the Pamirs.
Tadzhikskaya Kompleksnaya Ekspeditsiya 1932 g. pp. 384-389
DLC TN 110.T3T3 P-54
General discussion of the situation. Gravity anomalies in 19 points.
More detailed data in Beitr. zur. ang. Geoph.

2. Ochapovskiy, B.L.: Sila Tyazhesti na Pamire. Sila Tyazhesti v Karelii:
Force of gravity in the Pamirs. Force of gravity in Karelia.
Izv. Gos. Geograf. Obshch., Vol. 68, 1936, pp. 348-366.
DLC G23.R6
Determination of the force of gravity (a) in the Pamirs (19 points) and (b) in Karelia (45 points). Maps 118A,B, and C P-35

3. Ochapowski, B.L.: Schwermessungen mittels Pendeln, ausgefuhrt auf dem Pamir und in Karelien in den Jarhen 1932 and 1933:
Gravity measures by means of pendulums carried out in the Pamirs and in Carelia in the years 1932 and 1933.
Beitruge zur angew. Geophysik, Vol. 5, 1936, pp. 451-479.
ICU QE501.B403
Article in German.
19 measures in (a) Pamir and (b) 45 in Carelia. Only anomalies are given based on Helmert's formula of 1909.

4. Offman, P.E.: O Geologicheskoy Interpretatsii Geofisicheskikh Kart Ishimbayskogo Priural'ya:
On Geological Interpretation of Geophysical Maps of the Ishimbayskoye Priural'ye
Neftyanoye Khozyaystvo, Vyp. 9-10, 1946, pp. 30-36.
DLC TN860.N465 MF 105-W P-407
Interpretations of electrometric and gravimetric maps, based on geological data, for location of deep-seated oil-bearing strata.
2 maps; one of gravimetric anomalies, region Timashevka, Ishimbay, Tat'yanovka, Kinsikeyeva (53°15' - 53°30'N; 56°-56°30' E). No gravimetric observations.

5. Orlov, A. Ya.: Poltavskaya Gravimetricheskaya Observatoriya litsom k sotsialisticheskomu stroitel'stvu:
Polkava Gravimetric Observatory facing socialistic construction.
Mirovedeniye, Vol. 20, No. 3-4, 1931,pp. 16-33
DLC QB1.R933 R-48
In this article is given: 120 gravimetric measures in ten Ukraine by Polkava Observatory 1926-1930; 17 made in 1926-27 by Voyenno-Topogo-Upr. and 3 made by Astronomicheskiy Institut. Also gravimetric map of the Ukraine 46°-52° N; 27°-39° E. Iso-anomalies each 25 milligals.
Chernigov gravity anomaly discussed in detail.

6. Orlov, A.Ya.: Opredeleniye sily tyazhesti v Gornom Altaye v 1916 i 1917 gg:
Determination of the force of gravity in Mountain Altay in 1916 and 1917.
Izv. Vs. Tresta Osn. Geodez. i Gravim. Rabot
Vyp. 1, 1936, pp. 7-18
AMS

7. Orlov, A.Ya.: Uskoreniye sily tyazhesti Poltavy, Glavnoy Palaty Mer i Vesov i Chernigova:
Accelleration of the force of gravity in Poltava, Main Office of Weights and Measures and in Chernigov.
Izv. Vs. Tresta Osn. Geodez. i Grav. Rabot
Vyp. 1, 1936, pp. 38-40
AMS

8. Orlov, A.Ya.: Opredeleniye Sily Tyazhesti v Zapadnoy Sibiri:
Determination of the force of gravity in Western Sibiria.
Izvady Astr. Obs. Novoross. Univ. No. 1, 1914

Gravity at nine points determined in 1912.

1. Parenago, P. P.: Istoriya Gosudarstvennogo Astronomicheskogo Instituta im. Shternberga: 1931-1939:
History of the Shternberg State Astronomical Institute 1931-1939.
Uch. Zap. Moskovsk. Gos. Univers., Vyp. 58, 1940, pp. 139-163.
DLC Q60.M868
History of gravimetric work is given on pp. 143-144. During the years 1933-37 Sorokin made submarine measures of gravity; 120 points in the Black Sea, and 169 points in the Okhotsk and Japan Sea. Detailed study of the Moscow gravity anomaly was carried out.

2. Pariyskiy, N. N.: Acceleration de la pesanteur dans le point gravimetrique principal de Transcaucasie a Tbilissi:
Acceleration of gravity at the principal gravimetric point of Transcaucasia at Tbilisi.
25X1A5a1 Ak. N. SSSR, Vol. 49, 1945, pp. 28-30
[redacted]
Article in French.
Determinations 1903-1936 discussed. Place: seismological station of the Georgian Ak. Sc., Plekhanov Avenue 41°43'08"N., 44°47'42"E., h.400.7 met. Adopted value g. 980.1771 ± 1.0 mlg.

3. Pariyskiy, N. N. : Teoriya dinamicheskogo temperaturnogo koefitsienta mayatnikov:
Theory of dynamic temperature coefficient of pendulum.
Geodezist, Vol. 15, 1939, No. 11, pp. 32-47
DLC QB296.R813
Comparison of theory with laboratory results obtained by Bulansze and others.

4. Pariyskiy, N. N. : Uskoreniye Sily Tyazhesti v osnovnykh Punktakh Soyuza:
Pulkove, Moskve, Poltave i Kazani:
Acceleration of the Force of Gravity in basic points of the Union:
Pulkovo, Moscow, Poltava and Kazan.
Izv. Vs. Tresta Osn. Geodez. i Grav. Rabot, Vyp. 1, 1935
AMS
Detailed reduction of gravity determinations at the four stations to the Potsdam system.

5. Pariyskiy, N. N. and Kazanskiy, I. A.: Opredeleniye sily tyazhesti v punktakh po razezu P. K. Shternberga v oblasti Moskovskoy gravitatsionny anomali:
Determinations of the force of gravity at 6 points in the Sternberg section in the region of Moscow gravitational anomaly.
25X1A5a1 Astron. Zhurn., Vol. 9, 1932, pp. 238-268
[redacted]
Abstract in German. Detailed discussion of the problem. Beside the new six points other determinations of 17 points are given and discussed.

6. Pariyskiy, N. N.: Uskoreniye Sily Tyazhesti v Tbilisi:
Acceleration of Force of Gravity in Tbilisi:
Trudy Geofiz. Inst. Ak.N. No. 7 (134), 1949, pp. 93
DLC QC801.A35 M F 74-G P-122
Detailed investigation of 10 determinations 1903-1936 including connection with Moscow made by Abakelia (1936) and Teyemerly (1937). Final results for Tbilisi 980. 177.7 ± 0.9 mlg. (See P2)

7. Pariyskiy, N. N. and Sorokin, L. V.: Opredeleniye Sily Tyazhesti v Rayone Moskovskoy Gravitatsionnoy Anomali v 1926 g.:
Determination of the force of gravity in the region of Moscow gravity anomaly in 1926.
Izv. Assoc. N. L. Inst. pri Fiz. Mat. Fak. MGU, Tom 3, 1930, Vyp. 1-2B, pp. 3-35.
DLC Q60.M8685 M F 43-D Not reproduced
Detailed determination of gravity in 6 points.

8. Pariyskiy, N. N.: Gravimetriya v Sovetskom Soyuze za 20 let:
Gravimetry in the Soviet Union in the last 20 years.
Mirovedeniye, Vol. 26, 1937, pp. 333-347.
DLC QB1.R933 M F 106-T P-183

9. Pariyskiy, N. N.: O vliyanii mikroseysm na opredeleniye sily tyazhesti metodom kachaniya mayatnikov:
On the influence of microseisms on the determination of the force of gravity by oscillation of pendulum.
Trudy Geofiz. Inst. Ak. N. No. 12,(139), 1950, pp. 3-21
DLC QC801.A35 M F 124-J P-367
Theoretical treatment. Possible influence 0.3 mlg.

10. Permyakov, I. G.: Usloviya zaleganiya nefti i dal'neysheye napravleniye razvedki v Embenskom rayone:
Conditions of oil deposits in Emba region.
Neftyaniye Khozyaystvo, No. 4, 1936, pp. 26-30
DLC TN860 N465, Map 103. M F 165-F P-401

11. Poletayev, S.: K Voprosu interpretatsii Gravitatsionnykh Nablyudeniy: On the Problem of interpretation of gravity observations. 25X1A5a1 [redacted] tr. Inst., No. 34, 1933, pp. 212-218

Procedure for calculation of anomalous gradients of gravity in cases when the perturbing mass has the shape of a layer.

12. Poletayev, S. P.: Kupol Shubar-Kuduk:
Dome Shubar-Kuduk
Trudy Neft. Geol. Razv. Inst., Ser. B , Vyp. 44, 1934.
DLC TN860.L37 MF 110-R P-338
Anomaly map 49°15'-49°20'N; 56°45'-57°E. Contour interval 1 mlg.

13. Poletayev, S. P.: Gravimetricheskiye nablyudeniya v Berekoyskom neftenosnom rayone v 1927 i 1928 g :
Gravimetric observations in Berekoy oil region 1927-1928
Neftyanoye khozyaystvo, Vol. 19, No. 10, 1930, pp. 385-391
DLC TN860 N465, pp. 385-391 Maps 110,111. M F 165-Q P-404.

14. Poletayev, S. P. : Gravitatsionnaya razvedka v Turkmenistane:
Gravity reconnaissance in Turkmenistan.
Neftyanoye Khozyastvo, No. 2, 1935, pp. 32-37.
DLC TN860.N465 M F 109-0 P-334

15. Poletayev, S. P.: Razvedka s gravitatsionnym variometrom v Ferganskoy doline
Reconnaisance with a gravity variometer in Fergana Valley. (In 1931-33)
Neftyanoye Khozyastvo, No. 7, 1934, pp. 37-42
DLC TN860.N465 M F 109-R P-336 and P-400

16. Popov, N. A.: Gravimetricheskaya svyaz' Poltava-L'vov:
Gravimetric connection Poltava-L'vov.

Trudy Poltavsk. Gravim. Obs. Vol. 2, 1948, pp. 84-105
[redacted]
g for astronomical observatory 980.944 ± 0.0018, two mlg. less than previously determined by Kviatkovskiy.

17. Popova, I. V. editor, : Inzhenerno-geologicheskiye otchety i zapiski k proyektam.
Inzhenerno-geologicheskiye issledovaniye dlya gidro-energeticheskogo stroitel'stva, tom 11, 1950, pp. 240-263.
Gos. izd. Geol. Lit. 1950, DLC TC147 G5., pp. 240-263
Gravity methods up to 1950. M F 165-JJ P-408.

18. Presnyakov, B. A.: Geodezicheskiye Anomalii v Rayone Baykala:
Geodetic anomalies in Baykal Region.
"Problemy Buryat-Mongol'skoy ASSR"
Tom 1, Akad. Nauk SSSR, pp. 187-192
Moskva, Leningrad, 1935.
DLC DK771.B8K5 M F 28-E
General discussion of the problems based mostly on data obtained by Akhmatov 1902-1906.

19. Pyaskovskiy, D. V.: Opredeleniye Sily Tyazhesti po linii Moskva-Kazan':
Determinations of the force of gravity along the line Moscow-Kazan'.
Byull. Astr. Inst., No. 33, 1933, pp. 169-171.
Abstract in German
Measurement of gravity at 14 points. Reduction to Leningrad and Kazan'.

20. Pyaskovskiy, D. V.:Opredeleniye Sily Tyazhesti v Kuznetskom Bassyne v 1932 g.:
Determination of the force of gravity in the Kuznetsk Basin in 1932.

Astr. Zhurn., Vol. 11, pp. 397-403, 1934.
[redacted]
Abstract in English.
Gravity at 21 points: 3 astronomical points.

21. Pyaskovskiy, D. V.: Gravimetricheskaya svyaz' Poltavy a Pulkovom:
Gravimetric connection of Poltava and Pulkovo.
Izv. Vs. Tresta Osn. Geodez. i Grav. Rabot
Vyp. 1, 1936, pp. 19-23
AMS

1. Razdymakha, G. S.: Zamechaniye k Teorii Minimal'nogo Mayatnika:
Notes on the theory of the minimal pendulum.
Zavod. Lab., Vol. 21, 1943, pp. 50-56.
[redacted]
Abstract in English.
Kohlschuter's formulae for the minimal pendulum are analyzed. Two examples of pendulum design are considered.

2. Razdymakha, G. S.: Tsentrobezhnyy gravimetr:
Centrifugal gravimeter.
TsNIIGAiK, Sbornik No. 7, 1941
AMS;CGS

3. Razdymakha, G. S. Opytnyy pribor TsNIIGAiK s minimal'nymi kvartzevymi mayatnikami:
Experimentak apparatus of TsNIIGAiK with minimal quartz pendulums.
TsNIIGAiK, Sbornik No. 7, 1941.
AMS; CGS

4. Rozanov, L. N.: Geofizicheskaya Razvedka v Srednem Povolzh'ye:
Geophysical prospecting in the Middle Volga River.
Neftyanoye Khozyaystvo, Vyp. 6, 1948, pp. 31-37.
DLC TN860.N465 M F 165 FF
Description of the magnetometric, gravimetric, electro-prospecting and seismographic geophysical exploration of the above-named region.
No numerical data.

5. Rudakovskiy, G. I. Opredeleniye sily tyazhesti uprugimi mayatnikami:
Determination of the force of gravity by means of elastic pendulums.
Geodezist, Vol. 14, 1938, No. 5, pp. 37-48
DLC QB296.R813 M F 118-L P-244
Theory and practice of the Hollweck-Lejay pendulums. Determination of gravity in 14 points of the Sterngerg section of the Moscow anomaly with all detail.

1. Samoylova, N. S. and Yakhontov, E. G.: Die relative Bestimmung der Intensitut der Schwerkraft im Uralgebiete in Jahre 1925.:
Relative determinations of the intensity of the force of gravity in Ural region in 1925.
25X1A5a1 Geol. Inst. No. 16, 1927, pp. 189-191
[redacted]
Article in German
Gravity at 9 points 58°40' - 59°55'N; 57°34' - 60°49° E.

2. Samoylova, N. S. and Yakhontov, Ye. G.: Otnositiel'nyye opredeleniya sily tyazhesti na Urale v 1925 g:
Relative determinations of the force of gravity in Ural in 1925.
Izv. Geodezich. Kom. za 1925 god. Moskva 1927.
Tom II, Otdel 2, pp. 1-19
DLC QB296.R816 M F 59-C
Same observational material as in S 1.

3. Samsonov, N. : Graficheskiy metod ucheta vliyaniye topograficheskikh mass na nablyudeniya s gravitatsionnym variometrom:
Graphical method of calculation of the influence of topographic masses on the observations with a gravity variometer.
Trudy Gl. Geol. Razv. Upr., Vyp. 36, 1931 pp. 86-96.
DLC QE276.A163 NNA 704 M F 185-B P-301
Theoretical.

4. Sazhina, N. B.: Resul'taty gravitatsionnykh variometricheskikh rabot, provedennikh v tsentral'noy chasti Dneprovsko-Donetskoy vpadiny:
Results of gravity variometer work in Dnepr-Donets depression.
Razvedka Nedr 5, 1940, pp. 39-48
DLC TN4-R23. Maps 61, 62, 63, 64, and profiles 27, 28. MF 113-P P-363.

5. Sel'skiy, V.:K voprosu o stroyenii Zaterechnoy ravniny:
On problem of structure of Trans-Terek plain.
Neftyanoye khozyaystvo, Vo. 21, No. 8-9, 1931, pp. 104-113.
DLC TN860 N465 . Map 114. M F 165-U P-333

6. Sergeyev, M. N. : O Potentsiale Bezkonechno Tonkoy Ellipticheskoy Plastinki:
On the Potential of an infinitely thin elliptic plate.
Trudy TsNIIGAiK, Vyp. 51, 1948, pp. 112-116
DLC QB275,M64 P-78
Theoretical.

7. Sergiyevskiy, Capt.: Doklad v Kommissii Imp. Russ. Geograf. Obshch., po Izsledovaniyu Sily Tyazhesti v Rossii.
Report of the Commission of the Imperial Russian Geographic Society on investigations of the force of gravity in Russia.
Izv. Russ. Geograf. Obshch. Vol. 39, 1903, pp. 508-542.
DLC G23.R6 M F 61-M P-77

8. Shneyerson, B. L.: Ob odnom metode vydeleniya lokal'nykh i regional'nykh. gravimetricheskikh poley:
On a method of separation of local and regional gravimetric fields.
Izvestiya Akademii Nauk SSSR, Ser. Geog. i Geofiz., Vol. 10, No. 5, 1946, pp. 449-454
DLC AS262 A6246 MF 143-H P-270

9. Shtol'tser, E. : Opredeleniye sily tyazhesti na o-ve Dikson i v Arkhangel'ske:
Determination of the force of gravity in Dickson Island and at Archangel.
25X1A5a1 Astr. Inst. No. 49, 1939, pp. 281-282
[redacted]
Determination made in 1933.

10. Shtol'tser, E. E.: Opredeleniye Sily Tyazhesti v Uralo-Embenskom Rayone S. 1927-go po 1930 yi god.:
Determinations of the Force of gravity in the Ural-Emba Region from 1927 to 1930.
25X1A5a1 Astr. Inst. No. 39, pp. 379-384, 1935.
[redacted]
Abstract in German
Measures of the force of gravity in 85 points.

11. Skvortsov, V. P.: Puti ispol'zovaniya geofiziki pri poiskakh nefti v Sterlitamakskom rayone:
Ways of the use of geophysics for location of oil in Sterlitamsk region.
Neftyanoye Khozyaystvo, Vol. 26, No. 8-9, 1934, pp. 30-32
DLC TN860 N465 Map 102. M F 165-E P-400

12. Skvortsov, V. P.: O napravlenii razvsdochnykh rabot v mestorozhdenii Kairovka.
On the progress of reconnaisance work at Kairovka.
Neftyanoye Khozyaystvo, No. 7, 1936, pp. 51-54
DLC TN860 N465, Maps 104, 105 M F 165-H P-401

13. Skvortsov, V. P.: Vyvody iz idei o smysle gravitatsionnykh izogamm v Embemskom rayone:
Deduction from Gravity isogams in Emba region.
Neftyanoye Khozyaystvo, Vol. 25, No. 10, 1935, pp. 14-17
DLC TN860 N465, 4 sketches out of which two are located; maps 115, 116.
MF 165-W P-405.

14. Smirnov, L. and Kurushin, A.: Opredelenie Szhatiya Zemnogo Sferoida iz Nablyudeniy Sily Tyazhesti dlya Territorii SSSR.
Determination of the flattening of the terrestrial spheroid from the observations of the force of gravity on the territory of the USSR.
25X1A5a1 Astr. Zhurn. Vol. 14, pp. 168-171, 1937
[redacted]
Abstract in English.
Study based on 1545 points available before 1933.
Flattening was determined 1:301.5

15. Sorokin, L. V.: Sposob Peredelki Khronometra dlya Opticheskogo Schetchika:
Method of Modification of a Chronometer for an Optical Counter.
25X1A5a1 Astr. Zhurn. Vol. 10, pp. 490-493, 1933.
[redacted]
Abstract in English
Adaptation of a chronometer for the determination of time of pendulum oscillations in gravity measures.

16. Sorokin, L. W.: Ein visuelles Verfahren zum Empfang rhythmischer Seitsignale bei pendelbeobachtungen.
Visual device for reception of rhythmic time-signals for pendulum observations.
Baltic Geodetic Commission Comptes Rendus, 9th meeting, pp. 257-264, 1937
German text.
Description of apparatus used in USSR. Diagrams in text. Examples given.

17. Sorokin, L. W.: Ein optischer Koinzidenzapparat:
An optical coincidence apparatus.
Baltic Geodetic Commission, Comptes Rendus, 9th meeting, pp. 249-256, 1937
In German.
Improvement of pendulum apparatus for gravimetric measures. The time of swinging can be reduced to 1 or 2 hours. Diagrams and half-tones in text.

18. Sorokin, L. V.; Uryuson, V. O.; Ryabinkin, L. A. and Dolitskiy, V. A.:
Kurs geofizicheskikh metodov razvedki neftyantkh mestorozhdeniy:
Course of geophysical methods of prospecting for oil deposits.
M. L., 1950, pp. 474
DLC TN271.P4K83 M F 92M P-148
Chapters 1-6, pp. 8-104 deal with application of gravimetric methods.
p. 60: Map of free air and Bouger anomalies in Eastern Azerbaydzhan based on 98 pendulum measures. Contour interval 25 mlg.

19. Sorokin, L. V.: Bestimmung der Schwerewerte auf dem Schwarzen Meere:
Determination of the force of gravity on the Black Sea.
Balt. Geod. Kommiss., Verhandlungen, 6th session, pt. 2, 1934, pp. 240-278.
Submarine determinations in 36 points in 1930 and in 39 points in 1933.

20. Sorokin, L. V.: Schwerenbestimmungen mit Beobachtungen Kurzer Dauer:
Gravity determinations with observations of short duration.
Balt. Geod. Kommiss., Verhandlunger, 6th session, pt. 2, 1934, pp. 287-306.
5 gravity determinations in the neighborhood of Moscow.

21. Sorokin, L. V.: Statichsekiye sposoby otnositel'nykh izmereniy sily tyazhesti:
Static methods of relative determinations of the force of gravity.
Geodeziya, M. D. Bonch-Bruyevich, ed., Vol. 9, 1949, pp. 5-21.
DLC TA545.G3 M F 41-A P-25

22. Sorokin, L. V.: Gravimetriya i Gravimetricheskaya Razvedka:
25X1A5a1 [redacted]
Gravimetry and Gravimetric Prospecting, 1951, pp. 479, 2-nd Edition.
pp. 167-219: description of Russian gravimetry: (1) Rudakovskiy, (2) GKM, (3) GKA, (4) VIRG

23. Sorokin, L. V.: Gravimetricheskaya razvedka:
Gravimetric reconnaisance. Part1, pp. 9-104.
Gos. Nauchn.-tekh. izd. neft. i g, lit. 1950
DLC TN271 P4 k83. Map 68, pp. 1-104 (MF 92-M). MF 119-H P-411.
Also Part 5, p. 454, map 69.

24. Stepanov, A.: Funksional'nye Krugovye Lineyki Dlya Vychisleniy Popravki za Topographiyu pri nablyudeniyakh s Gravitatsionnym Variometrom.
Functional Circular Scale for the Computation of Correction for Topography in Observations with the Gravity Torsion-Balance.
25X1A5a1 [redacted]
Byull. Astr. Inst. No. 37, pp. 298-303, 1935.
English abstract.
Reproduction of the scale and instructions for its use are given.

25. Stepanov, A. N.: Nekotryye Vyvody iz Rezul'tatov Gravimetricheskoy S"yemki Pravoberezh'ya Nizhney Volgi:
Some conclusions from the Gravimetric Survey of the right hand bank of the Lower Volga.
Byull. Mosk. Obshch. Ispyt. Priorody, Otd. Geologii.
25X1A5a1 Vol. XII, 1934, pp. 550-562
[redacted]
Abstract in German.
Gravimetric survey in the neighborhood of Chernyy Yar (47°45' -48°15'N) (45°50' -46°25' E.) Map of anomalies, Contour interval 1 mlg.

26. Stepanov, A. N. and Navrotskiy, N. M.: Rezul'taty gravimetricheskoy s'yemki v rayone Kairovki na Yuzhnom Urale:
Results of gravimetric survey in the region of Kairovka in Southern Ural.
Neftyanoye Khozyaystvo, No. 6, 1934, pp. 39-46.
DLC TN860.N465 MF 109-Q P-333
Map of anomalies 15 x 15 km., contour interval 1 mlg.

27. Stepanov, A. N.: i Navrotsliy, N. M.: Rezul'taty gravimetricheskoy s"yemki v rayone Kairovki na Yuzhnom Urale:
Results of gravimetric survey in the region of Kairovki, in South Ural.
Neftyanoye Khozyastvo, Vol. 26, No. 6, 1934, pp. 34-46
DLC TN860, Maps 98, 99, 100, 101. M F 165-C P-400.

28. Stepanov, A. N.: Gravimetricheskaya s"yemka v 1929 g. v Groznenskom rayone: Gravimetric Survey in 1929 in Groznyy area.
Neftyanoye Khozyaystvo, Vol. 20, No. 4-5, 1931, pp.360-373
DLC TN860 N465, Maps 112, 113. M. F. 165-T P-406.

29. Subbotin, S. I.: Rezul'taty gravimetricheskikh rabot v Romenskom solenosnom rayone:
Results of gravimetric work in the Romny salt deposit region.
Razvedka Nedr, No. 13, 1935, pp. 24-29
DLC TN4.R23 M F 109-W
Anomaly map 57°36' -50°56'N; 31°05' -31°20'E. Contour interval 1 mlg.

30. Subbotin, S. I. : Ispol'zovaniye krivizn pri interpretatsii gravitatsionnykh dannykh:
Use of curvature in the interpretation of gravimetric data.
Prikladnaya geofizika, Vyp. 3, 1947, pp. 150-158.
DLC Slv. Uncl. MF 131-G P-373

31. Sudakov, S. G. : Razvitiye Gosudarstvennoy Geodezicheskoy Sluzhby SSSR za 25 let:
Development of the Federal Geodetic Service in the USSR during 25 years.
Sbornik NTiPS, Vyp. 5, 1944, pp. 3-24.
DLC QB301.R8 R-5
A review of the Geodetic work in USSR during the years 1919-1944.
Maps illustrating the status on Jan. 1, 1944 of
(1) Triangulation of I Order
(2) Leveling of I and II Order
(3)Gravimetric measures.

32. Sudakov, S. G.: Sostoyaniye i Perspektivy Obshchey Gravimetricheskoy S"yemki v SSSR:
Status and Perspectives of a general gravimetric survey in USSR.
Geodezist, No. 11, Nov. 1940, pp. 5-12.
DLC QB296.R82 MF 23-L P-113

33. Shokin, P.F.: O Tochnosti Mayatnikovykh Opredeleniy proizvedennykh Moskovskim Aerogeodezicheskim Predpriyatiyem v 1936 g.
On the precision of pendulum observations made by the Moscow AGP in 1936.
Geodezist 1939, No. 4, pp. 35-47.
DLC QB296.R313 P 409
Analysis of 1161 gravity determinations. Mean error of connection with the initial point was found to be 1.1 mlg., and the mean error of the anomaly of gravity 2.8 mlg.

1. Tikhonov, N. A. and Bulanzhe, Yu. D.: Ob osrednenii gravitricheskikh poley:
On taking mean values of gravimetric fields.
Izv. Ak. N., Ser. geogr. i geofiz., Vol. 9, 1945, pp. 240-260.
DLC AS262.A6246. Maps 93, 94, 95, 96. M F 144-M P-369

2. Tovchigrechko, S. A.: Vychisleniye izostaticheskoy reduktsii sily tyazhesti dly gravimetricheskikh punktov Kryma i Chernogo Morya:
Calculation of isostatic reduction for gravimetric points of Crimea and Black Sea.
TsNIIGAiK, Sbornik No. 7, 1941
AMS; CGS
Isostatic anomaly for 17 points.

3. Tovchigrechko, S. A.: O temperaturnom Posledeystvii na Invarnyye Mayatniki.
On temperature hysterisis of invar pendulums.
Geodezist, Vol. 14, 1938, No. 4, pp. 35-40.
DLC QB296.R813 M F 118-K P-244
Discussion of results of gravimetric expedition to Kazakhstan. The effect of former temperature on the behaviour of pendulums is confirmed.

4. Tsukervanik, Y. P.: Gravimetricheskiye Raboty Tashkentskoy Astronomicheskoy Observatorii:
Gravimetric Work of the Tashkent Astronomical Observatory.
25X1A5a1 [redacted] Vash. Astr. Obs., Vol. 5, pp. 117-125, 1935.
Detailed historical survey with valuable references to already published material and future work.

1. Ulanov, A. S.: O gravimstricheskikh nablyudeniyakh v Dal'nevostochnom kraye:
On the gravimetric observations in the Far East.
Izvestiya Dal'nevostochnogo geofizicheskogo instituta.
Vyp. 11(IX), 1932, pp. 111-116
Slav. Uncl. M F 131-J. P-374.

2. Uspenskaya, N. Yu.: Nizhnaya Volga kak ob"yekt neftyanoy razvedki:
Lower Volga as an object of oil prospecting.
Sovetskaya geologiya, Vol. 9, 1939, pp. 38-55 and 110-116
DLC QEI P7. Maps 91, 92. M F 140-J. P-372

3. Uspenskiy, D. G.: Optnyye raboty gravimetricheskim metodom na zhelezorudnykh mestorozhdeniyak Kol'skogo poluostrova:
Experiments with gravimetric method at ferrous deposits of the Kola Peninsula.
Zapiski Leningradskogo Gornogo Instituta, Tom VIII, 1934, pp. 27-39.
DLC QEI-14. Theoretical article, example map given with 5 profiles drawn in. M F 111-L. Not reproduced.

1. Volkov, V. and Kunegin, V.: Opredeleniye Szhatiya Zemnogo Ellipsoida iz Gravimetricheskikh Nablyudeniy v Aziatskoy. Chasti SSSR.
Determination of the Flattening of the Terrestrial Ellipsoid from the Gravimetric Observations in the Asiatic Part of the USSR.
Russkiy Astron. Zhurnal, Vol. 5, 1928, pp. 246-253.
25X1A5a1
[redacted]

Abstract in German.
Based on 114 points from the catalogue of the Gizhitskiy and Savkevich.
Reciprocal of flattening 297.7.

2. Vorob'yev, S.: Opredeleniye Sily Tyazhesti v Ural'skoy Oblasti.
Determination of the force of gravity in the Ural Region.
25X1A5a1
Gor. Astr. Inst., No. 33, 1933, p. 174-176
[redacted]

Abstract in English.
Determination of gravity at 50 points 53°34' - 54°53'N; 54°09' - 69°07'E.

3. Vorob'yev, S. N.: Opredeleniye Uskoreniya sily tyazhesti v Bashrespublike v 1932 g.
Determination of the acceleration of the force of gravity in Bashkir Republic in 1932.
25X1A5a1
Gor. Astron. Inst., No. 34, 1933, pp. 219-221
[redacted]

Abstract in English
Gravity measures at 17 points 55°07' - 55°46' N; 55°32' - 58°53'E.

1. Yarosh, A. Ya.: Resheniye obratnoy zadachi gravimetrii dlya vertikal'nogo ustupa i vertikal'nogo plasta:
Solution of the reverse problem of gravimetry.
Trudy gorno-geol. institut, Vyp. 19, Geofiz. Sbornik No. 1, pp. 81-84
DLC Slav. Uncl., M F 199-F. P-500.

2. Yekimov, V. V.: Tochnoye Vyrazheniye dlya normal'nogo Znacheniya Polnogo Gradienta Sily Tyazhesti i yego sostavlya-yushchikh:
Exact Expression for the Normal Value of Complete Gradient of the Force of Gravity and its Components.
25X1A5a1 [redacted] Theor. Astron., Vol. 4, 1949, No. 3 (56), pp. 103-125.
Theoretical Derivation of Brun's formula.

3. Yelistratov, V. A.: Osnovnyye Prichiny Raskhozhdeniy i Nevyazok v Nablyudeniyakh s bronzovymi Mayatnikanii:
Basic causes of discrepancies and errors in observation with bronze pendulums.
Geodezist, Vol. 14, 1938, No. 5, pp. 22-37.
DLC QB296.R813 P-244
A detailed description of observational technique.
Gravimetric connection Poltava-Tbilisi discussed.

4. Yelistratov, V. A.: O Veroyatnom Sushchestvovanii Temperaturnogo Gistereziza v Bronzovykh Mayatnikakh:
On probable existence of a thermal hysteresis in bronze pendulums.
25X1A5a1 [redacted] Zeits., Vol. 15, pp. 48-60, 1938.
Abstract in English
Study of the behavior of Stuckrath pendulums used for gravimetric work by the Poltava Observatory.

5. Yelistratov, V. A.: Gravimetricheskaya svyaz' Poltavy s Tiflisom:
Gravimetric connection of Poltava with Tbilisi.
Izv. Vs. Tresta Osn. Geod. i Grav. Rabot
Vyp. 1, 1936, pp. 41-52
AMS

6. Yelistratov, V. A.: Gravimetricheskaya svyaz' Poltavy, Moskvy i Kazani:
Gravimetric connection of Poltava, Moscow and Kazan.
Izv. Vs. Tresta Osn. Geod. i Grav. Rabot
Vyp. 1, 1936, pp. 75-88
AMS

7. Yelistratov, V. A.: Gravimetricheskaya svyaz' Poltavy s Pulkovom i Moskvoy:
Gravimetric connection of Poltava with Pulkovo and Moscow.
Izv. Vs. Tresta Osn. Geod. i Grav. Rabot
Vyp. 1, 1936, pp. 89-99
AMS

8. Yeremeyev, V. F.: Vychisleniye Popravok za Ukloneniye Otvesnykh Liniy i Astronomicheskiy Koordinaty Punktov, ispol'zyemykh v kachestve Obosnovaniya topograficheskikh s"yemok melkikh masshtabov:
Calculation of corrections for the deflection of the vertical to the astronomical coordinates of points used as controls for small scale maps.
Sbornik NTiPS, Vyp. 8, 1945, pp. 3-23. R-8.
Area (41°30' - 44°N; 67°30' - 70°10'E) considered is around Turkestan 43°17'39".31N; 68°16'13".36E. Free-Air and Bouguer anomaly gravity maps. Contour interval 10 mlg., scale 1:1,000,000. Also topographic map. Comparison of deflection found by triangulation and by gravimetric methods for 12 points: May-Balyk, Turkestan, Zate-Tyube, Arys' Dan-Baba, Kich-Burua, Berele, Besh-Mollo, Chat-Kul', Chal-Adyr, Zapadnyy and Chul'-Konur.

9. Yevseyev, S. V.: Reduktsiya Sily Tyazhesti v Gornykh Rayonakh:
Reduction of the Force of Gravity in Mountainous Regions.
Trudy TsNIIGAiK, Vyp. 51, 1948, pp. 83-111.
DLC QB275.M64 P-78
Gravity anomalies in Central Caucasus are studied. A catalogue of 100 gravimetric stations in this region with complete details. Some observations are being published here for the first time. Maps of the distribution of anomalies. Tables for various reductions of gravity. Of the 100 gravimetric stations, 21 are not in Zhuravlev's catalogue.

10. Yevseyev, S. V.: Vychisleniye Izostaticheskikh Reduktsiy sily Tyazhesti na Urale i v Povolzh'iyi:
Computation of Isostatic Reductions of the force of gravity on the Urals and in the Volga region.
Trudy TsNIIGAiK, Vyp. 17, 1937, pp. 33-68
NNA 704; DLC 275.M64 M F 86-H P-150. Abstract in English.
Data for (a) 22 points in the Urals and for (b) 13 points in the Volga region. Maps of isostatic and free-air anomalies:
53°-56°N; 56°-62°E; contour interval 10mlg., scale 1:3,000,000
50°-52°N; 44°-48°E; contour interval 10mlg., scale 1:3,000,000

11. Yevseyev, S. V.: Issledovaniye topografo-izostaticheskoy reduktsii ukloneniy otvesa i sily tyazhesti ispytaniye nalichiya izostatsii na Kavkaze:
Investigation of topographic-isostatic reduction of deviation of the vertical in the Caucasus.
Trudy TsNIIGAiK, Vyp. 29, 1939, pp. 13-49
AMS QB 275 - U48. Map 67. M F 116 P-217

12. Yevseyev, S. V.: Izostaticheskiye anomalii sily tyazhesti na severom Kavkaze i problemy geodezicheskoy gravimetrii:
Isostatic anomalies of the force of gravity in the Caucasus.
Trudy TsNIIGAiK, Vyp. 29, 1939, pp. 50-75.
AMS QB 275-U48, M F 116 P-217.

13. Yun'kov, A. A.: Opredeleniye mestopolozheniya i razmerov odnorodnogo ellipsoida vrashcheniya okolo vertikal'noy osi po nablyudeniyam so statichiskem gravimetrom i gravitatsionnym variometrom:
Determination of the size of the ellipsoid of revolution.
Izv. Akademia Nauk SSSR, Ser. Geofiz., No. 6, 1951, pp. 56-59
Izd. Ak. Nauk SSSR, 1951.
DLC QC801.A35 P-375 MF 139-Q

1. Zagrebin, D. V.: Raznosti glavnykh mementov inertsii Trekhosnoy Zemli:
Difference of principal moments of inertia of a triaxial earth.
25X1A5a1 Byull. Inst. Teor. Astr., Vol. 4, 1950, No. 8 (61), pp. 390-401.
[redacted]
Theoretical development and an application to the new Soviet ellipsoid.

2. Zagrebin, D. V.: Normal'noye Raspredeleniye Sily Tyazhesti na Ellipsoide Krasovskogo:
Normal Distribution of the Force of Gravity on the ellipsoid of Krassovskiy.
25X1A5a1 Uch. Zap. Leningr. Univ., No. 116, 1949, pp. 187-191.
[redacted]
Derivation of formulae.

3. Zagrebin, D. V.: Opredeleniye ondulyatsiy geoida s uchetom chlenov poryadka szhatiya zemnogo ellipsoida:
Determination of the undulations of the geoid taking into account terms of the order of compression of the terrestrial ellipsoid.
25X1A5a1 Byull. Inst. Teor. Astr., Vol. 4, 1950, No. 8 (61), pp. 402-407.
[redacted]
Theoretical development and application to the new Soviet triaxial ellipsoid.

4. Zagrebin, D. V.. Ob odnom Reshenii Problemy Stoksa dly Sluchaya Trekhosnogo Ellipsoids i Vyvod obobshchennoy Formuly Klero:
On a solution of Stokes' problem for the case of a triaxial ellipsoid and derivation of generalized formula of Clairaut.
25X1A5a1 Uch. Zap. Lening. Univ., No. 116, 1949, pp. 174-186
[redacted]
Use of Lame functions.

5. Zagrebin, D. V.: K Voprosu o Tochnosti formuly Stoksa:
On the Question of Exactness of Stokes' Formula.
25X1A5a1 Byull. Inst. Teor. Astr., Vol. 4, 1949, 3 (56), pp. 134-141.
[redacted]
Influence of the undulations of the geoid. Normal force of gravity derived for the ellipsoid of Krasovskiy and for the triaxial ellipsoid.

6. Zagrebin, D. V.: Formula Stoksa dlya sluzhaya ellipsoidal'noy urovenoy Poverkhnosti:
Stokes' Formula for the Case of an Ellipsoidal Level Surface.
25X1A5a1 Inst., No. 52, pp. 407-435, 1944.
[redacted]
Abstract in English.
An integral expression for the undulations of a geoid relative to an ellipsoidal level surface.

7. Zagrebin, D. V.: Teoriya Regulyarizovannogo Geoida:
Theory of regularized geoid.
25X1A5a1 Trudy Inst. Teoret. Astr., Vyp. 1, 1952, pp. 87-224
[redacted] Not reproduced.
Tables 5 and 5a: Values of g for Krasovskiy ellipsoid computed for every minute of latitude: $\gamma = 918.0490\ (1 + 0.0053029 \sin^2\phi - 0.0000059 \sin^2 2\phi)$
Table 6: Δg Krasovskiy-International; Δg TsNII-International, for every degree of latitude and 15° longitude.

8. Zagrebin, D. C.: Urovnennyy trekhosnyy ellipsoid i sila tyazhesti na yege poverkhosti:
Equipotential triaxial ellipsoid and force of gravity on its surface.
Akademia Nauk SSSR, 1948, pp. 112.
DLC M F 126-J P-360
Translation available.

9. Zalesskiy, P.: Spisok Punktov Gravimetricheskikh Opredeleniy Polkovnika Zalesskogo v Turkestane i Sosednikh Rayonakh (1901-1911g.):
A list of points of gravimetric determinations of Colonel Zalesskiy in Turkestan and in neighboring regions (1901-1911).
Izd. Turk. Otd. Russ. Imp. Geogra. Obsh., pp. 1-28 and 31-40
QFP p.v. 2, No. 7
NN G-30
List of 145 points with a detailed description.

10. Zamorev, A. A.: Ob opredelenii proizvodnykh gravitatsionnogo potentsiala i sootnosheniy mezhdu momentami vozmushchayushchikh mass po proizvodnoy, zadannoy na ploskosti:
On the determination of derivatives of gravitational potential, etc.
Izvestiya Akademii Nauk SSSR, Ser. Geogr. i Geofiz. 1939, pp. 275-286
DLC AS262 A6246, M F 143-L P-272

11. Zavaritskiy, A. N.: Zadachi gravimetricheskikh issledovaniy v N.-Tagil'skom rayone, na Urale;
Problems of gravimetric investigations in the Ural region.
Gornyy Zhurnal God 100, No. 9-10; pp. 656-661, 1924
DLC TN4 G8 M F 127-C P-377

12. Zavistovskiy, V. S.: Itogi geofizicheskikh rabot po issledovaniyu glubinnoy geologii:
Results of geophysical work on investigation of depth geology.
Trudy Neftyanoy Konferentsii 1938 goda
DLC TN863.N4 M F 105-F P-158
Maps of gravity anomalies:
(1) Dnepr-Donets 49°20' - 52°40'N; 29°-37°E; contour interval 10 mlg.
(2) Area NW of Azov Sea from Melitopol' to Genichesk; contour interval 1 mlg.
Gravity profile: Ovruch (51°20'N; 28°50'E) - Zhlobin - Mogilev.

13. Zemskov, I. G.: Gravimetricheskiye Raboty Leningradskogo Astronomicheskogo Instituta po Murmanskoy Zhel. Doroge i v Severnom Kraye v sezon 1933 goda:
Gravimetric work of the Leningrad Astronomical Institute along the Murmansk railroad and in the northern region in 1933.
Izvest. Astr. Inst. No. 40, pp. 407-414, 1936.
[redacted]
Russian text, abstract in English.
Determination of the force of gravity in 70 points.

14. Zhdanko, M.: Otnositel'noye opredeleniye sily tyazhesti v zalive De Kastri v 1911 godu:
Relative determinations of the force of gravity in the Bay de Kastri in 1911.
Zapiski po gidrografii, vyp. XXXVI, pp. 196-211, 1913.
DLC VK798 R85 M F 125-W P-359

15. Zhongolovich, I.: Opredeleniye sily tyazhesti na v Pechore i na Novoy Zemle v 1924 g.:
Determination of the force of gravity on the river Pechora and on Novaya Zemlya in 1924.
Izvest. Astr. Inst., No. 9. 1925, pp. 67-68.
[redacted] Abstract in German. Two gravity measures on the Pechora River and one on island Novaya Zemlya.

16. Zhongolovich, I: Gravitationsbestimmungen auf den Inseln Kolgujew und Nowaja Zemlja im Jahre 1925:
Gravity determinations on the islands Kolguyev and Novaya Zemlya in 1925.
25X1A5a1 Astr. Inst., No. 15, 1927, pp. 167-168.
[redacted]
Article in German
Gravity at two points on N.Z. and one on Kolgyev.

17. Zhongolovich, I.: Opredeleniye sily tyazhesti na Novoy Zemle:
Determination of the force of gravity on Novaya Zemlya.
25X1A5a1 Astr. Inst., No. 5, 1924, pp. 27-28
[redacted]
Abstract in German.
Gravity at 73°15'8N, 56°23'8 E on the island Novaya Zemlya.

18. Zhongolovich, I. D.: Opticheskiy Schetchik Dlya Mayatnikovykh Nablyudeniy:
Optical Coincidence Counter for Pendulum Observations.
25X1A5a1 Astr. Inst., No. 37, pp. 290-293, 1935.
[redacted]
Description of the apparatus which was constructed at the astronomical institute and used for pendulum observation of gravity.

19. Zhongolovich, I. D.: Geodezicheskiy Otryad na Pamire:
A geodetic party in the Pamirs.
Tadzhiksk. Kompleks. Ekspeditsiya 1932 g., pp. 367-375
DLC TN110.T3T3
20 gravity and 34 magnetic points.

20. Zhongolovich, I. D.: Opredeleniye sily tyazhesti na Pamire:
Determination of the force of gravity in the Pamirs.
25X1A5a1 Astr. Inst. No. 47, 1939, pp. 219-226
[redacted]
Abstract in English.
Gravity measures in 19 points 37°30' - 40°31' N; 70°54' - 73°56' E.
Critique of previous determinations by Zaleskiy.

21. Zhongolovich, I. D.: Opredeleniye Sily Tyazhesti 1/4 - sekundnymi mayatnikami v 1929 g.:
Determination of the force of gravity with 1/4-second pendulums in 1929.
25X1A5a1 Astr. Inst., No. 47, 1939, pp. 217-219.
[redacted]
Abstract in English
Gravity determinations in three points: Cape Kanin Nos, Solombala and Petukhovskiy Shar (island Bol'shoy Oleniy).

22. Zhongolovich, I. D.: Rezul'taty Opredeleniya sily tyazhesti na Novoy Zemle v 1926 g. i na v. Yeniseye v 1927 g.:
Results of determination of the force of gravity on Novaya Zemlya in 1926 and on the Yenisey River in 1927.
25X1A5a1 Astr. Inst. No. 47, 1939, pp. 211-215
[redacted]
Abstract in English
Four gravity stations each on N. Z. and in the south of the Yenisey River.

23. Zhongolovich, I. D.: Usloviya Primeneniya Klassicheskoy Formuly Stoksa:
Conditions for the Application of Stokes' Formula.
25X1A5a1 Inst. Teoret. Astr., Vol. 4, No. 6 (59), 1949, pp. 270-282.
[redacted]
An important theoretical article inasmuch as numerical computations are carried out both for the Krassovskiy and the International ellipsoids.

24. Zhongolovich, I. D.: Nekotryye Stoksovy postoyannyye dly urovennogo trekhoznogo ellipsoids:
Some constants of Stokes for triaxial ellipsoid.
25X1A5a1 Inst. Teor. Astr. Vol. 14, No. 8 (61), 1950, pp. 375-388.
[redacted]
Theoretical investigation. Numerical examples for the Soviet ellipsoid.

25. Zhongolovich, I. D.: Opredeleniye sily tyazhesti na polyuse:
Determination of the force of gravity on the pole.
Nauka i Tekhnika, No. 12 (610), 1937, pp. 4-6
DLC AP50.N38 MF 94N.
Description of apparatus and program of work for the drifting station "Severnyy Polyus" (see A 7 and F 1)

26. Zhongolovich, I. D.: Gravimetriye na Polyuse:
Gravimetry at the Pole.
Meteorologiya i Gidrologiya, Vol. 3, No. 6, 1937, pp. 89-92
DLC QC 851.M27 M F 122-Q P-412
Description of work, no concrete data.

27. Zhongolovich, I. D.: K istorii gravimetricheskikh rabot v Arktike:
On the history of gravimetric work in the Arctic.
Problemy Arktiki, 1940, No. 2, pp. 86-110.
DLC G600.P7
List of determinations with positions but no values of g. Especially important are determinations of Zemskov in Taymyr Peninsula (1936-38), 51 points, Zhongolovich on board of the "Sadko" (1935-38), 163 points, and of Buynitskiy on board of the "Sadko" and "Sedov" (1938-40), 92 points.
M F 121-P P-366

28. Zhongolovich, I.: Vneshneyye gravitatsionnyye pole zemli i fundamental'-nyye postoyannyye, suyazannye s nim:
External gravitational field of the earth and fundamental constants connected with it.
Trudy Inst. Teoret. Astronomii. Akademia Nauk SSSR, Vyp. 3, 1952,

[redacted]
Extensive investigation based on 26,000 determinations of gravity. Average free air anomalies (Helmert's formula) given for 204 of the 410 sectors (each 100 sq. degrees) covering the whole earth. Derivation of undulations of the geoid. Maps (a) gravimetric survey of the world. Only two sectors in USSR do not have sufficient data: Chukotskiy and Kolyma regions. (b) undulations of the geoid in reference to Krasovskiy ellipsoid; (c) same in reference to triaxial ellipsoid.

29. Zhongolovich, I. D.: Opredeleniye sily tyazhesti na more pri pomoshchi mayatnikov:
Determination of the force of gravity at sea by means of pendulums.
Zapiski po gidrografii, tom LIV, pp. 1-28, 1928
DLC VK798 R85 M F 125-V P-358

30. Zhuravlev, N. F.: Opredeleniye Szhatiya Zemnogo Sferoida iz gravimetricheskikh Nablyudeniy:
Determination of flattening of terrestrial spheroid from gravity observations.
Trudy Astr. Inst., Vol. 14, pt. 2, pp. 7-255, 1940.
[redacted]
Abstract in English.
Flattening in general and according to different meridians.
Distortion of meridians. Catalogue of gravity measures 10,712 points of which about 7,000 in USSR.

31. Zhuravlev, N. and Maurer, V.: O dynamicheskoy temperaturnoy popravke:
On the dynamic temperature correction.
Geodezist, Vol. 15, 1939, No. 1, pp. 20-25.
DLC QB296.R813 P-409
Observations of temperature variation of pendulums.

32. Zverev, M. S. and Kiselev, N. V.: Metodika Gravimetricheskogo Vyvoda Ukloneniy Otvesa:
Method of Gravimetric Determination of the Deviation of the Vertical.
Trudy TsNIIGAiK, Vyp. 11, 1936, pp. 59-72
DLC QB275.M64 M F 74-H P-123
Abstract in English
Theoretical discussion and practice of computation.

33. Zverev, M. S. and Lavret'yeva, Ye. V.: K Voprosu ob Opredelenii Vysot Gravimetricheskikh Punktov:
On the problem of determination of elevation of gravimetric points.
Trudy TsNIIGAiK, Vyp. 36, 1940, pp. 59-98.
M F 38-B P-291.

34. Zverev, M. S. and Pariyskiy, N. N.: Ob Otsenke Tochnosti i Klassifikatsii Polevykh Gravimetricheskikh Punktov:
On the estimate of precision and classification of field gravimetric points.
Trudy TsNIIGAiK, Vyp. 36, 1940, pp. 3-43
M F 38-A P-290

35. Zverev, M. S.: Gravimetricheskiye raboty v SSSR:
Gravimetric work in the USSR.
XX Let Sovetskoy Geodezii i Kartografii
Vol. 1, 1939, pp. 137-169
DLC M F 16-B P-264
Report on progress. Maps: Vectors of the deviation of the vertical (a) for Bessel's ellipsoid, (b) for normal ellipsoid, covering European Russia and Central Siberia up to meridian 90°E. Graph: dependence of deviation of the vertical on latitude for Caucasus.

36. Zverev, M. S. and others. Spravochnik: Rukovodstvo po Gravimetricheskim rabotam:
Handbook and Instructions for Gravimetric Work.
1936, pp. 167 M F 219-C P-688.

25X1A5a1

25X1A5a1 List of Abbreviations and Reference Keys Used in the [redacted] Dealing with Bibliographic Materials on Soviet Science

DLC: AS262.A62	Library Call Number at the Library of Congress; all other prefixes (corresponding to "DLC") are those used in the Union List of Serials.
AMS	Army Map Service
CGS	U. S. Coast and Geodetic Survey
M. F. No.	Refers to the [redacted] on which the reference may be found (no longer available at [redacted]
Folder No.	Refers to photostated material of two types, e.g.: Folder No. Red 67 (R67) for instance, is a reference photostated directly from an original manuscript or book, the original of which could not be made otherwise available [redacted] Folder No. Purple 67 (P67) is a photostat printed from microfilm already available [redacted] (no longer available at the [redacted]

25X1A5a1

25X1A5a1

25X1A5a1

25X1A5a1

25X1A5a1

CONFIDENTIAL
~~SECRET~~

Approved For Release 1999/09/02 : CIA-RDP79-01083A000100030001-5