BARANOV, A.M., kand. tekhn. nauk

Potentials for lowering the cost of construction of a.c. traction substations. Vest. TSNII MPS 24 no.4:35-39 '65.

(MIRA 18:7)

BARANOV, A.M., dotsent

Nomogram method of determining basic specific resistance in the movement of trains. Tekh.zhel.dor. 7 no.8:21-23 Ag'48.
(Railroads--Traffic, etc) (MLRA 8:11)

STRA[illegible]JVSKIY, Isaak Izrailevich, kandidat tekhnicheskikh nauk; BARANOV, Abram Moiseyevich, kandidat tekhnicheskikh nauk; PE[illegible]SAKHZON, B.E. kandidat tekhnicheskikh nauk, redaktor; VERINA, G.P., tekhnicheskiy redaktor.

Marshalling railroad cars on load tracks. Trudy TSNII MPS no.98: 3-162 '54. (MLRA 8:7)
(Railroads--Making up trains)

BARANOV, A.M., kandidat tekhnicheskikh nauk; ASHUKIN, D.D., kandidat tekhnicheskikh nauk; KOZLOV, V.Ye., inzhener.

Selecting speeds and weigth for railroad passenger cars. Vest. TSNII MPS 15 no.2:3-7 S '56. (MLRA 9:12)
(Railroads—Cars)

BARANOV, Abram Moiseyevich, kand.tekhn.nauk; BERNGARD, Konstantin Alekseyevich, doktor, tekhn.nauk; PERTSOVSKIY, L.M., red.; BOBROVA, Ye.N., tekhn.red.

[Organization of train traffic on electric lines; the practice of dispatchers on the Ural-Siberian line] Organizatsiia dvizheniia poezdov na liniiakh s elektrovoznoi tiagoi; opyt dispetcherov dorog Uralo-Sibirskogo napravleniia. Moskva, Gos.transp.zhel-dor. izd-vo, 1957. 74 p. (MIRA 11:2)
(Electric railroads)

MAKSIMOVICH, B.M.; FEL'DMAN, E.D.; BARANOV, A.M.; VOROB'YEV, N.A.; KOZLOV, V.Ye.; AL'TERMAN, S.L., inzh., red.; BOBKOVA, Ye.N., tekhn.red.

[Selection of methods for increasing traffic capacity of railroad lines] Vybor sposobov uvelicheniia propusknoi sposobnosti zheleznodorozhnykh linii. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 245 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.147) (MIRA 11:7)
(Railroads--Traffic)

BARANOV, A.M.; MIROSHNICHENKO, R.I.; SEGAL, L.G.; ADADUROVA, Ye.V.; KALININ, V.K., inzh.; red.; DLUGACH, B.A., kand.tekhn.nauk, red.; BOBROVA, Ye.N., tekhn.red.

[Operational requirements for parameters of electric power supply systems for d.c.electric railroads] Ekspluatatsionnye trebovaniia k parametram ustroistv energosnabzheniia zheleznykh dorog, elektrifitsirovannykh na postoiannom toke. Moskva, Gos.transp.zhel-dor. izd-vo, 1959. 234 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.174). (MIRA 13:11)

(Electric railroads--Current supply)

BARANOV, Abram Moiseyevich, kand.tekhn.nauk; BERNGARD, Konstantin Alekseyevich, doktor tekhn.nauk; MEL'NIK, Aleksandr Lukich, kand.tekhn.nauk; PEYSAKHZON, Boris Emanuilovich, kand.tekhn. nauk; AL'TERMAN, S.L., inzh., red.; KHITROV, P.A., tekhn.red.

[Organizing the train traffic on electrified lines] Organizatsiia dvizheniia poezdov na elektrifitsirovannykh liniiakh. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 222 p. (MIRA 13:5)
(Electric railroads--Traffic)

BARANOV, A.M., kand.tekhn.nauk; KARETNIKOV, A.D., kand.tekhn.nauk; VOROB'YEV, N.A., kand.tekhn.nauk

Important particular characteristics of traffic organization for trains with electric traction. Zhel.dor.transp. 42 no.7:44-48 Jl '60. (MIRA 13:7)
(Electric railroads—Management)

BARANOV, A.M., kand.tekhn.nauk

Selecting the computation system for the operation of power supply units of electric railroads. Vest. TSNII MPS 20 no.7: 9-14 '61. (MIRA 14:12)
(Electric railroads--Substations)

BARANOV, A.M., kand.tekhn.nauk; KARETNIKOV, A.D., kand.tekhn.nauk

New developments in the calculation of railroad traffic capacity.
Zhel.dor.transp. 44 no.1:47-51 Ja '62. (MIRA 14:12)
(Railroads--Traffic)

BARANOV, A.M., kand. tekhn. nauk

Basic tractive resistance of passenger cars with roller bearings. Vest. TSNII MPS 22 no.4:32-35 '63. (MIRA 16:8)

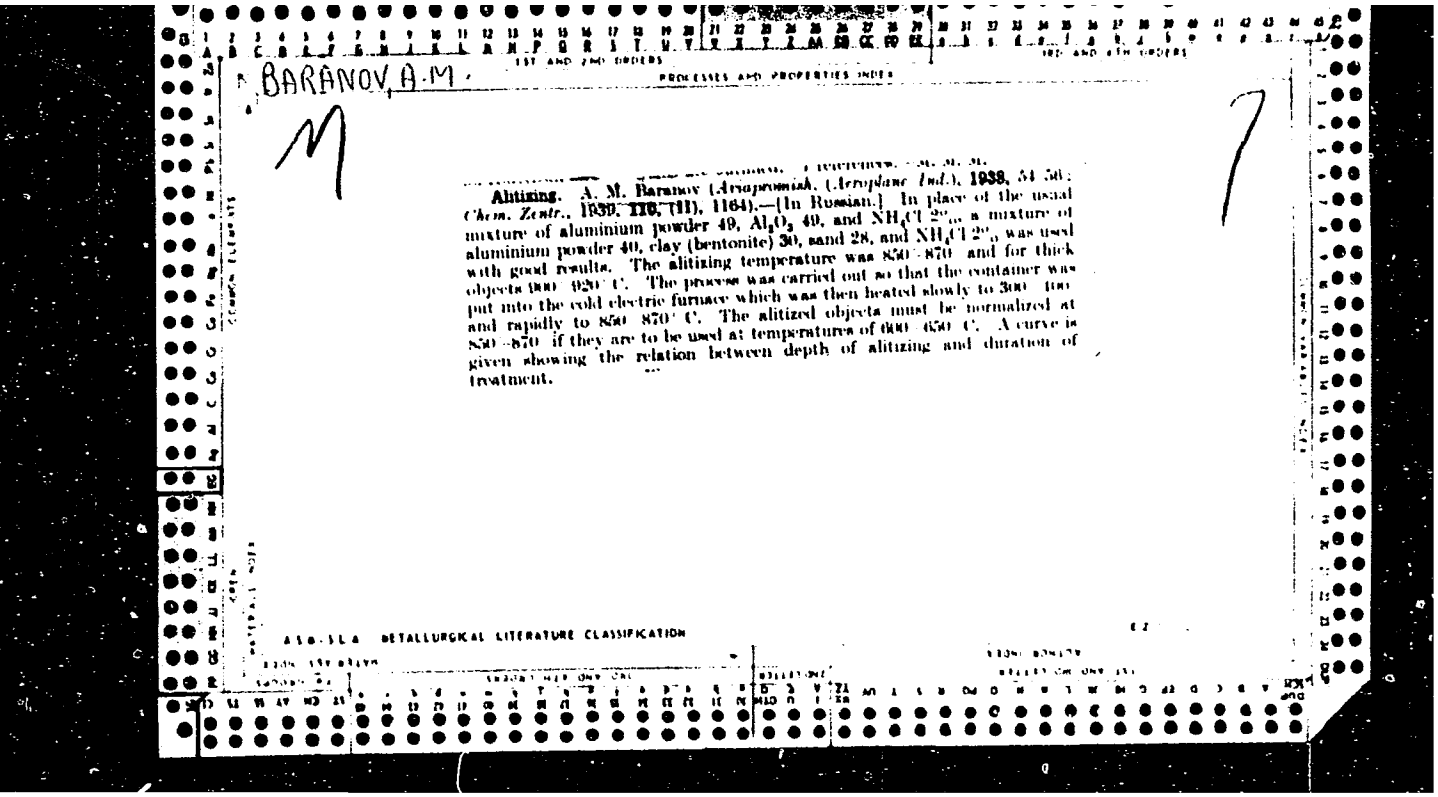
(Railroads—Passenger cars)

FEL'DMAN, E.D., kand.tekhn.nauk; BARANOV, A.M., kand.tekhn.nauk; KOZLOV, V.Ye., kand.tekhn.nauk

Staged increase of the traffic carrying capacity of single-track lines. Vest.TSNII MPS 22, no.6:43-49 '63. (MIRA 16:10)

BARAN'OV, Abram [illegible]yevich; KOZLOV, Vasiliy Yefimovich; FEL'DMAN, Esfir' Davydovna; PETROVA, V.L., red.

[Development of the traffic and carrying capacity of single-track lines] Razvitie propusknoi i provoznoi sposobnosti odnoputnykh linii. Moskva, Transport, 1964. 195 p. (Moscow. Vsesoyuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.280). (MIRA 18:1)



BARANOV, A.M.

M

7

PROCESSES AND PROPERTIES INDEX

Alitizing. A. M. Baranov (*Aviapromishl. [Aeroplane Ind.]*, 1938, 54–56; *Chem. Zentr.*, 1939, **110**, (II), 1164).—(In Russian.) In place of the usual mixture of aluminium powder 49, Al_2O_3 49, and NH_4Cl 2%, a mixture of aluminium powder 40, clay (bentonite) 30, sand 28, and NH_4Cl 2% was used with good results. The alitizing temperature was 850–870° and for thick objects 900–920° C. The process was carried out so that the container was put into the cold electric furnace which was then heated slowly to 300° and rapidly to 850–870° C. The alitized objects must be normalized at 850–870° if they are to be used at temperatures of 600–650° C. A curve is given showing the relation between depth of alitizing and duration of treatment.

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

В. АННОТ. А.М.

PCHELKO, Ivan Grigor'yevich; BAKANOV, A.M., otvetstvennyy red.; USHAKOVA,T.V., red.; SOLOVEYCHIK, A.A., tekhn.red.

[Meteorological conditions of flight at high altitude] Meteorologicheskie usloviia poletov na bol'shikh vysotakh. Leningrad, Gidrometeor.izd-vo, 1957. 53 p. (MIRA 11:1)

(Meteorology in aeronautics)

AUTHOR: Baranov, A. M.

SOV/ 50-58-6-5/24

TITLE: The Vertical Expansion of Clouds of the Upper Layer Over the European Part of the USSR (Vertikal'naya protyazhennost' oblakov verkhnego yarusa nad Yevropeyskoy territoriyey SSSR)

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 6, pp. 22 - 25 (USSR)

ABSTRACT: As compared to the other clouds those of this layer are not yet investigated as regards their spatial and microphysical structure. The probing aeroplanes namely do, as a rule, not reach the cirrus and cirro-stratus clouds; radio probing makes it not possible to determine their boundaries reliably enough. The achievements discussed are also of practical interest as modern jet planes regularly reach great altitudes. Already the first flights of these planes showed that wrong ideas were existing on the altitudinal expansion and the thickness of these clouds. They may be several kilometers thick. The main source for this knowledge are the reports of the crews of aeroplanes flying at great altitudes. By now an enormous amount of such reports accumulated so that generalizations can be made. Table 1 shows data on the repeat-

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ed character of various contours. The limit differs between 6 - 7 and 12 - 14 km and may also change according to the season: in winter, spring and autumn 8,1 - 9,0 km, in summer 9,1 - 10,0 km. This rule reflects a certain relation with the tropopause (Ref 7). The recurrence of the lower contour of this cloud is shown in Table 2. It also differs within a wide range. Figure 1 shows mean values of the altitudes of either contour. A winter minimum and a summer maximum may be clearly seen. The annual course of the upper cloud contour strictly speaking copies that of the average altitude of the tropopause. This image is disturbed only in autumn. Table 3 shows the altitudinal expansion of the clouds which on the average is about 2 km and which changes little according to the seasons. When seen from the earth the appearance of the clouds of the upper layer often gives a wrong impression. Its thickness depends on the synoptical conditions as these clouds are to a high degree transparent and contain little water. The greatest thickness is observed at the active heat fronts and amounts to from 2,3 to 2,6 km according to the season. There are 1 figure, 3 tables, and 7 references, 7 of which are Soviet.

BA... V, A. M.

86-58-6-13/34

AUTHOR: Baranov, A. M., Guards Engr Col Retired, Candidate of Geographic Sciences, and Volkonskiy, Yu. N., Engr Maj, Candidate of Physical and Mathematical Sciences

TITLE: The Tropopause and Flying Conditions in It (Tropopauza i usloviya poletov v ney)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 6, pp 40-43 (USSR)

ABSTRACT: The article describes the special features of the tropopause and the peculiarities of flight in it. The altitude of the tropopause varies considerably, depending on the geographic latitude, the season of the year, and the atmospheric processes. Over the polar regions its altitude is 8-9 km, over the regions of temperate climate it is 10-12 km, and it reaches its highest altitude of 16-18 km over the equatorial regions. The thickness of the tropopause layer varies from several hundred meters to several kilometers (1-3 km). The temperature in the tropopause varies from -34° to -75°C. Pilots may encounter turbulent air of great intensity when flying in this layer of the atmosphere. In such cases pilots have to discontinue their climb, switch off the autopilot, establish the air speed as shown in the instructions, and avoid sharp maneuvers in piloting their aircraft. If the piloting of aircraft becomes impossible because of vigorous bumpiness, the pilots have to change their flight altitude. Particular attention should be paid to weather conditions when flying in the zone of thunderstorm activities.

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86-58-6-13/34

The Tropopause and Flying Conditions (Cont.)

Flights in thunderstorms and vigorous cumulus clouds are categorically forbidden. For the detection of thunderstorm cells, the available airborne radar devices should be used. If a crew accidentally gets into such clouds, it has to switch off all radio sets and come out of the clouds. When forced to fly in such clouds, the pilots should avoid banking their aircraft in every way possible. Very often the pilots have to make great physical efforts in the use of ailerons. The crews also have to make preparations for the prevention of icing. The radiosonde serves as the basic source of information about the altitude of the tropopause, and tropopause maps are compiled from the data which is obtained.

AVAILABLE: Library of Congress

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35000

AUTHOR: Baranov, A. M. S/050/60/000/04/004/018
B007/B017

TITLE: On the Extension of Clouds of the Upper Layer

PERIODICAL: Meteorologiya i gidrologiya, 1960, Nr 4, pp 25-26 (USSR)

TEXT: Investigations over the European part of the USSR show that in the warm-front zone of young cyclones, almost always clouds of the upper layer can be observed. If, however, all warm fronts (developing and dissolving) are considered, clouds occur the most frequently in the upper layer in summer. According to the data from 1952-1953 it is about 52% (Ref 1). I. G. Pchelko (Ref 2) obtained a frequency of 86% for a number of other years. Here, the data on the vertical extension of clouds in the upper layer above Poland and the Eastern Germany are given. They resulted from a generalization of the reports from 1953-1956 obtained by flights above these territories. Among these reports only those were chosen in which the clouds of the upper layer were recorded as an independent layer. Altogether, 191 reports were given. The data agree with those obtained above the European part of the USSR (Table 1). At the same time a somewhat more increased density of these clouds of the upper layer - on the average by 100 - 200 m, than that above the European part of the USSR was observed above Poland and Eastern Germany. This may be explained by the somewhat increased advection intensity of the warm humid air in the upper troposphere above the territories farther in

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the West. Data on the frequency of the varying cloud density in the upper layer (Table 2) show that it may change after some hundreds of meters to 4-5 km, in some cases also after longer distances. The data obtained are in agreement with those on cloud density in the upper layer above the territories farther in the West (England, Ref 3). As to the relation between the clouds of the upper layer and the tropopause the following may be said: In most cases these clouds are observed below the tropopause; in a number of cases, however, they penetrate into the lower stratosphere. There are 1 figure, 2 tables, and 3 references, 2 of which are Soviet.

Card 2/2

MATVEYEV, L. T.; BARANOV, A. M.

"Cloud physics" by A. M. Borovikov and others. Reviewed by L. T. Matveyev, A. M. Baranov. Meteor. i gidrol. no.2:62-63 F '62. (MIRA 15:2)

(Cloud physics)
(Borovikov, A. M.)
(Gaivoronskii, I. I.)
(Zak, E. G.)
(Kostarev, V. V.)
(Mazin, I. P.)
(Minervin, V. E.)
(Khrgian, A. Kh.)
(Shmeter, S. M.)

BARANOV, A.M.

High clouds over the European part of the U.S.S.R. Izv. AN SSSR. Ser. geofiz. no.3:438-442 Mr '62. (MIRA 15:2)

1. Voyenno-Vozdushnaya inzhenernaya akademiya im. A.F. Mozhayskogo.

(Clouds)

BARANOV, A.M. (Leningrad)

Stratification of frontal clouds. Meteor.i gidrol. no.8:11-15 Jl [i.e.Ag.] '62. (MIRA 15:7)
(Clouds)

BARANOV, A.M.

Clouds of the upper layer above the Arctic. Trudy AANII 239: 111-120 '62. (MIRA 16:8)

(Arctic regions--Clouds)

BARANOV, A.M.

Height and vertical extent of clouds in the lower and middle layers above the Laptev Sea. Trudy AANII 239:85-94 '62.
(MIRA 16:8)

(Laptev Sea--Clouds)

ACCESSION NR: AT4030529 S/0000/63/000/000/0072/0081

AUTHOR: Baranov, A. M.

TITLE: Flight conditions in the spatial structure of high level clouds

SOURCE: Nauchnaya konferentsiya po aviatsionnoy meteorologii. Moscow, 1960. Materialy*. Moscow, Gidrometeoizdat, 1963, 72-81

TOPIC TAGS: flight condition, high level cloud, spatial structure, troposphere, TU-104B aircraft, sounding

ABSTRACT: This paper is one of 13 previously unpublished reports of the 40 papers given at the Nauchnaya konferentsiya po voprosam aviatsionnoy meteorologii (scientific conference on problems of aviation meteorology) that was held in June and July of 1960 in Moscow at the Glavnoye upravleniye gidrometeorologicheskoy sluzhby* SSSR. The spatial structure of high level clouds, i.e., the spatial location of clouds in the upper troposphere which is characterized by the altitude of their lower and upper boundaries, their separation into layers, as well as the vertical and horizontal extent of the clouds, has been little studied. In recent years, more information on high clouds has been accumulated with large numbers of high altitude flights. In this paper, the author presents the treatment and analysis of some data from the period 1953-59 during which high level clouds were sounded. He also obtained data

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ACCESSION NR: AT4030529

on the high clouds during flights in TU-104B passenger aircraft along the Leningrad-Moscow and Leningrad-Sverdlovsk-Tashkent routes and from the AANII A-91 expedition of 1959 in the region of Dixon Island and the Laptevs. Weather data obtained by sounding the high level clouds pertain mainly to the European territory of the Soviet Union (2160 soundings), partially to Western Siberia and other regions of the Soviet Union, as well as from Poland and East Germany. More than 2500 soundings were analyzed during which high level clouds were penetrated and altitudes of their upper and lower boundaries were measured. The quality of the soundings was satisfactory since the weather surveys were accomplished by the most experienced crews who had prepared for flights under complex weather conditions and had been trained in identifying clouds in flight. The results are presented in graphs and tables. The author concludes that in high level cloud flights, weather phenomena are often observed which make the flight more difficult. Not all these phenomena have been adequately investigated; therefore, the study of flight conditions in high level clouds by meteorologists and flight personnel is of great importance to flight safety. Orig. art. has: 7 tables and 3 figures.

ASSOCIATION: none

SUBMITTED: 18Feb63 DATE AcQ: 17Apr64 ENCL: 00

SUB CODE: AS NO REF SOV: 004 OTHER: 000

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L 45807-65 EWT(1)/FCC GW

ACCESSION NR AM5014429 BOOK EXPLOITATION S/

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B41

Baranov, Aleksandr Mikhaylovich

Frontal clouds and conditions for flying through them (Frontal'nyye oblaka i usloviya poletov v nikh), Leningrad, Gidrometeoizdat, 1964, 237 p. illus., bibliо. Errata slip inserted. 4,600 copies printed.

TOPIC TAGS: meteorology, frontal cloud, air transportation

PURPOSE AND COVERAGE: This book covers problems of the spatial structure of frontal clouds and meteorological conditions of flights in them. Detailed quantitative characteristics of the altitude of the upper and lower cloud boundaries, their stratification, vertical and horizontal extent, thickness of cloud layers and cloudless streaks for warm, cold, secondary cold, and occlusion fronts are included. Cumulus-rain clouds and clouds of the upper stratum in frontal zones are examined. The book analyzes the meteorological conditions of flights in frontal clouds. Recommendations are made concerning analysis of

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content is comprehensible to flight and administrative personnel.

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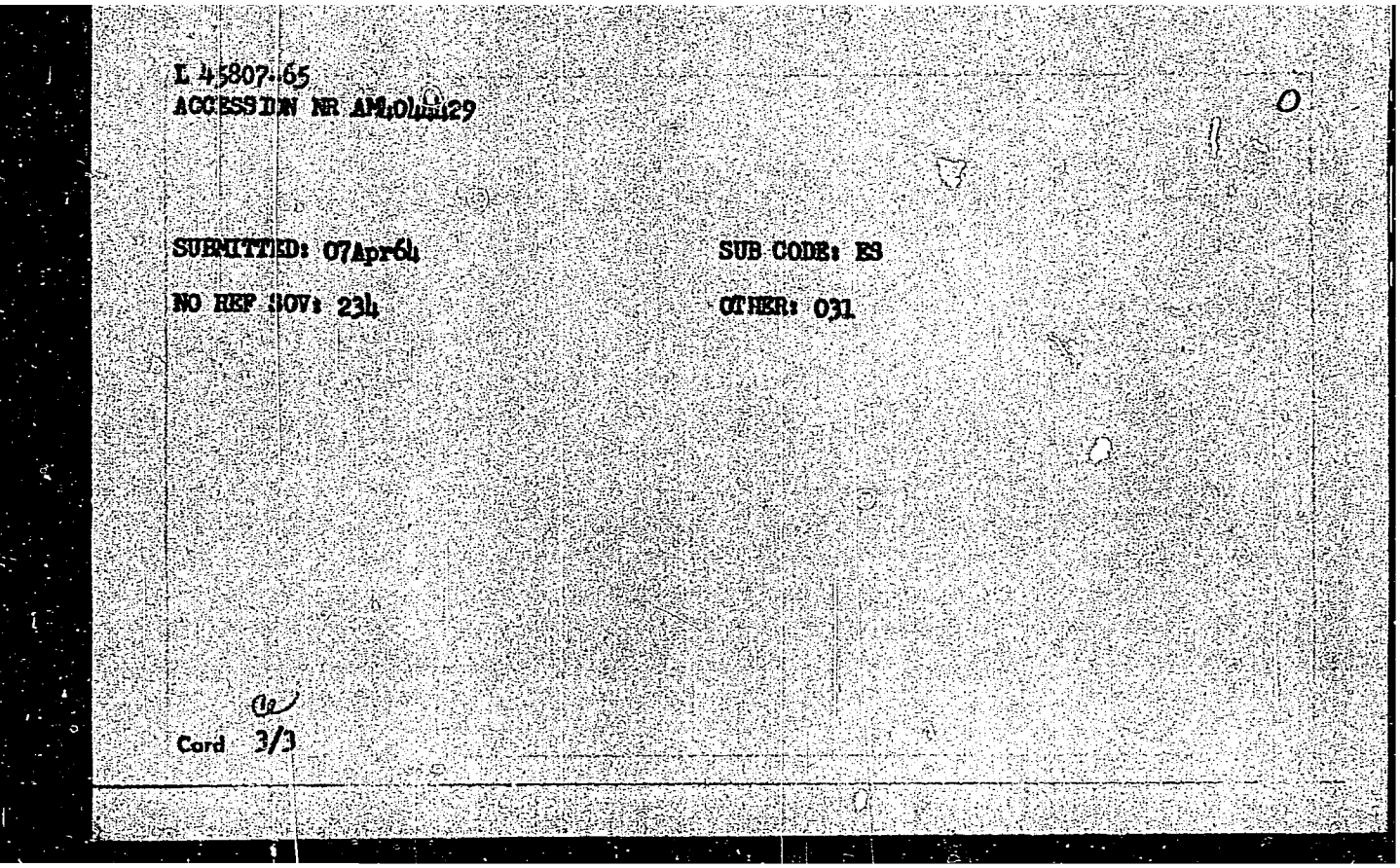

L 45807-65
ACCESSION NR AM4040429

SUBMITTED: 07Apr64 SUB CODE: ES

NO REF SOV: 234 OTHER: 031

Card 3/3

KUNITS, Aleksandr Vladimirovich; MATVEYEV, Mikhail Vladimirovich; BARANOV, A.M., doktor geogr. nauk; YASNOGORODSKAYA, M.M., red.

[Synoptic meteorology] Sinopticheskaia meteorologiia. Leningrad, Gidrometeoizdat, 1964. 317 p. (MIRA 17:12)

BARANOV, A. N.

Geodetic and underground surveying works in the construction of the Moscow subway; textbook
Moskva, Glav. red. Gorno-toplivnoi i geologo-razvedochnoi lit-ry, 1938. 186 p.
(Tekhnicheskii minimum) (55-53265)

TN273.B37

1. Mine surveying. 2. Metrostroi, Moscow.

BARANOV, A. N.

25504. Mnozhit' Ryady Peredovikov Kartografo Geodezlcheskogo Proizvodstva. (K Nagrazhdeniyu Ordenami I Medalyami Rabotnikov Sistemy Glav. Upr. Geodezii I Kartografii). Sbornik Nauch.--Tekhn. I Proizvod. Statey Po Geodezii, Kartografii, Topografii, Aeros''yemke I Gravimetrii, VYP. 23, 1949, s. 3-6

SO: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

BARANOV, A. N.

25504

Mnozhit' Ryady Peredovikov Kartografo-Geodezi Cheskogo Proizvodstva. (K Nagrazhdeniyu Ordenami i Medalyami Rabotnikov Sistemy Glav. UPK. Geodezii i Kartografii). Sbornik Nauch. - Tekhn. i Proizvod. Statey Po Geodezii, Kartografii, Topografii, Aerosʺemki i Kartografii, VYP. 23, 1949, S 92 - 95

SO: LETOPIS' No. 34

BARANOV, A.N.

ISAKOV, I.S., prof., admiral flota, otv.red.; PETROVSKIY, V.A., dotsent, kand.voyenno-morskikh nauk, kontr-admiral, red. [deceased]; DEMIN, L.A., dotsent, kand.geograf.nauk, inzh.-kapitan 1 ranga, glavnyy red.; BARANOV, A.N., red.; BERG, L.S., akademik, inzh.-mayor, red.; BOLOGOV, N.A., dotsent, kontr-admiral v otstavke, red.; VITVER, I.A., professor, doktor geograf.nauk, red.; GRIGOR'YEV, A.A., akademik; YEGOR'YEV, V.Ye., zasluzhennyy deyatel' nauki, prof., doktor voyenno-morskikh nauk, kontr-admiral v otstavke, red.; ZIMAN, L.Ya., prof., red.; ZUBOV, N.N., prof., doktor geograf. nauk, inzh.-kontr-admiral v otstavke, red.; KAVRAYSKIY, V.V., prof., doktor fiziko-mat.nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., prof., doktor geograf.nauk, red.; KUDRYAVTSEV, M.K., general-leytenant tekhn.voysk, red.; LAMYKIN, S.M., kapitan 1 ranga, red.; MATUSEVICH, N.N., zasluzhennyy deyatel' nauki i tekhniki, prof., doktor fiziko-mat.nauk, inzh.-vitse-admiral v otstavke, red., [deceased]; MESHCHANINOV, I.I., akademik, red.; MILENKI, S.G., red.; ORLOV, B.P., prof., doktor geograf.nauk, red.; PANTELEYEV, Yu.A., vitse-admiral, red.; SNEZHINSKIY, V.A., dotsent, kand.voyenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SALISHCHEV, K.A., prof., doktor tekhn.nauk, red.; TRIBUTS, V.F., admiral, red.; FOKIN, V.A., vitse-admiral, red.; SHVEDE, Ye.Ye., prof., doktor voyenno-morskikh nauk, kontr-admiral, red.; SHULEYKIN, V.V., akademik, inzh.-kapitan 1 ranga, red.; PAVLOV, V.V., inzh.-polkovnik, red.; VOLKOV, F.G.,

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ISAKOV, I.S.---(continued) Card 2.
podpolkovnik, pomoshchnik glavnogo red. po izd-vu; SEDOV, N.Ye., kapitan 2 ranga, uchenyy sekretar'; VOROB'YEV, V.I., kapitan 1 ranga, red.kart; MIGALKIN, G.A., inzh.-kapitan 1 ranga, red.kart; GAPONOVA, A.A., red.kart; GONCHAROVA, A.I., red.kart; GORBACHEVA, N.Ye., red.kart; GRYUNBERG, G.Yu., red.kart; DUROV, A.G., red. kart; YERSHOV, I.B., red.kart; ZIL'BERSHER, A.B., red.kart; KASTAL'SKAYA, N.I., red.kart; KUBLIKOVA, M.M., red.kart; MAKAROVA, V.N., red.kart; MOROZOVA, A.F., red.kart; PAVLOVA, Ye.A., red. kart; POCHUBUT, A.N., red.kart; ROMANOVA, G.N., red.kart; SMIRNOVA, L.V., red.kart; SMIRNOVA, L.N., red.kart; TANANKOVA, A.I., red. kart; YANEVICH, M.A., red.kart; YASINSKAYA, L.F., red.kart; VASIL'YEVA, Z.P., tekhn.red.; VIZIROVA, G.N., tekhn.red.; GOLOVANOVA, A.T., tekhn.red.; GOROKHOV, V.I., tekhn.red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn.red.; CHERNOGOROVA, L.P., tekhn.red.; FURAYEVA, Ye.M., tekhn.red.

[Marine atlas] Morskoi atlas. Otv.red. I.S. Isakov. Glav.red. L.A. Demin. Izd. Morskogo general'nogo shtaba. Vol.1 [Navigation geography] Navigatsionno-geograficheskii. Zamestitel' otv. red. po I tomu V.A. Petrovskii. 1950. 83 maps. (MIRA 12:1)
(Continued on next card)

ISAKOV, I.S.---(continued) Card 3.
1. Russia (1923- U.S.S.R.) Voyenno-morskoye ministerstvo.
2. Nachal'nik Morskogo kartograficheskogo instituta voyenno-morskikh sil (for Lamykin). 3. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov). 4. Nachal'nik Gidrograficheskogo upravleniya voyenno-morskikh sil (for Tributs). 5. General'nyy gosudarstv. direktor topograficheskoy sluzhby (for Baranov). 6. Direktor topograficheskoy sluzhby (for Milenki).
(Ocean--Maps) (Harbors--Maps)

BARANOV, A.N.; YEGUNOV, K.I.; ZEL'TSER, Ye.I.; LEBEDEV, N.N.; SLOBODCHIKOV, D.A.; CHEREMISIN, M.S.; SHLENSKIY, I.A., tekhnicheskiy redaktor

[Geodesy in tunnelling] Geodeziia v tonnelestroenii. Moskva, Izd-vo geodezicheskoi i kartograficheskoi lit-ry. Pt. 1 [Geodetic work on open surfaces] Geodezicheskie raboty na dnevnoi poverkhnosti. 1952. 503 p.[Microfilm]. (MLRA 8:7)
(Geodesy) (Tunneling)

BARANOV,A.N.

[Geodesy in tunnelling] Geodeziia v tonnelestroenii. Moskva, Izd-vo geodezicheskoy i kartograficheskoi lit-ry, Pt. 2. [Underground geodetic work] Podzemnye geodezicheskie raboty. 1953. 491 p. (MLRA 9:3)

(Geodesy)

BARANOV, A.N.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Baranov, A.N. Yegunov, K.I. Zel'tser, Ye.I. Lebedev, P.M. Slovodchikov, D.A. Cheremisin, K.S.	"Geodesy in Tunnel Construction"	Ministry of Railways

SO: W-30604, 7 July 1954

BARANOV, A.N., redaktor; LYSYUK, V.N., redaktor; SHUROV,S.I., redaktor; APRELCHENKO,V.S. redaktor; ITENBERG, I.M., redaktor; KURAKINA, V.I. redaktor; MOSTMAN, S.L., redaktor; SMIRNOVA,A.L., redaktor; TYURIN, S. A.; YAKOVLEVA, A.K.; GUREVICH, I.V., tekhnicheskiy redaktor.

[World atlas; index of geographical names] Atlas mira; ukazatel' geograficheskikh nazvanii. Moskva, 1954. 571 p. (MLRA 8:9)

1. Russia (1923- U.S.S.R.)Glavnoye upravleniye geodezii i kartografii. (Atlases)

BARANOV, A.N., laureat Stalinskoy premii, redaktor; LYSYUK, V.N., redaktor; SHUROV, S.I., redaktor; AVSYUK, G.A., doktor geograficheskikh nauk, redaktor; VITVER, I.A., professor, doktor geograficheskikh nauk, laureat Stalinskoy premii, redaktor; VOLKOV, N.M., professor, doktor geograficheskikh nauk, redaktor; GERASIMOV, I.P., akademik, redaktor; ZENZARUTSKAYA, I.P., dotsent, laureat Stalinskoy premii, redaktor; ZENKOVICH, V.P., professor, doktor geograficheskikh nauk, laureat Stalinskoy premii, redaktor; ISAKOV, I.S., professor, admiral flota v otstavke, laureat Stalinskoy premii, redaktor; KUDRYAVTSEV, M.K., general-leytenant tekhnicheskikh voisk, redaktor; LARIN, D.A., redaktor; MARUSOV, L.Ya., inzhener-podpolkovnik, redaktor; MURZAYEV, E.M., doktor geograficheskikh nauk, laureat Stalinskoy premii, redaktor; PAVLOV, V.V., inzhener-polkovnik, laureat Stalinskoy premii; SADCHIKOV, S.F., redaktor; SALISHCHEV, K.A., professor, doktor tekhnicheskikh nauk, redaktor; FILIPPOV, Yu.V., professor, doktor tekhnicheskikh nauk, redaktor; EDEL'SHTEYN, A.V., redaktor; GUNBINA, T.N., redaktor.

[World atlas] Atlas mira. Moskva, 1954. 283 p. (MLRA 7:9)

1. General'nyy gosudarstvennyy direktor topograficheskoy sluzhby (for Baranov) 2. Direktor topograficheskoy sluzhby (for Shurov) 3. Gosudarstvennyy direktor topograficheskoy sluzhby II ranga (for Lysyuk) 4. Direktor topograficheskoy sluzhby I ranga (for Gunbina, Larin, Sadchikov) 5. Direktor topograficheskoy sluzhby (for Edel'shteyn, Filippov) 6. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.
(Atlases)

BARANOV, A. N.

6-12-14/14

AUTHOR: None Given.

TITLE: Chronicle (Khronika).

PERIODICAL: Geodeziya i Kartografiya, 1957, Nr 12, pp. 69 - 7o (USSR)

ABSTRACT: On the occasion of the 4o years jubilee of the October-Revolution a scientific technical conference for geodesy, aerial photographs and cartography took place on October 24-28, 1957. It was organized by the :Main Office for Geodesy and Cartography of the Home Office of the USSR, the Military-Topographical Office and the Institute for Engineers of Geodesy, Air Survey and Cartography, Moscow. More than 5oo experts participated in it. The following lectures were held in the plenary meetings: A. N. Baranov, Chief of the Main Office for Geodesy andCartography, on "Soviet Geodesy, air phototopography and cartography during the past 4o years." A. S. Nikolayev, Chief-Substitute of the Military-Topographical Office, on "The part played by geodesy and the safeguarding of the military power of the USSR". G. V. Romanovskiy, Doctor of Technical Sciences, on "The results and the prospects of the development of air photography in the USSR". P. S. Zakatov, Doctor of Technical Sciences, on "The state and the fundamental tasks of geodetical education in the USSR". N. S. Podobedov, Candidate of Technical Sciences, on "Modern

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topographic maps, fundamental tasks and ways of their further perfection". Yu. D. Bulanzhe, Doctor of Physico-Mathematical Sciences, on "The Participation of the USSR in the performance of the International Geophysical Year".
Lectures held in the section for geodesy: V. A. Velichko, Candidate of Technical Sciences, on "The use of light location for the construction of geodetical networks". S. V. Yeliseyev Candidate of Technical Sciences, on "Modern tasks and the state of the construction of geodetical devices". A. I. Darnev, Doctor of Technical Sciences, on"Problems of construction and the evaluation of the accuracy of geodetical networks (angular and linear). " A. N. Kuznetsov, Candidate of Technical Sciences, on "State and prospects of the development of geodetical astronoy". V. I. Shillinger on "The present state and the prospects in the development of devices for an automatic local leveling."
Lectures held in the section for aerophotographic geodesy: M.D. Konshin, Doctor of Technical Sciences, on "The determination of the elements of outer orientation in the flight and the methods for evaluating the accuracy of the devices used. " A.I. Shershen' (deceased), Candidate of Technical Sciences, on"Fundamental tasks for the further development of aerophotographic apparatus". I. D. Kargopolov on "Balance of photogrammetric net-

Chronicle.

6-12-14/14

works". L. M. Gol'dman, Candidate of Geographical Sciences, on "problems of the topographic deciphering of aerial photographs". Lectures held in the section for cartography: M. D. Solov'yev, Doctor of Technical Sciences, on "The Fundamental problems of mathematical carthography". Yu. V. Filippov, Doctor of Technical Sciences, on "Results and prospects for the production of maps and atlases in the USSR". P. K. Koldayev, Candidate of Technical Sciences, on "Ways and methods for the perfection of the plastic representation of reliefs on maps." I. P. Zarutskaya, Candidate of Geographical Sciences, on "The cartographing of natural conditions in the USSR". M.P. Bordyukov, Candidate of Technical Sciences, on "Electron transformers". V. M. Perikov, Candidate of Technical Sciences, on "Photosensitive layers without silver and the transparent bases in cartography". V. A. Merkulov on "Microfilms and the possibility of using them in cartography".
In connection with the conference an exhibition on "Soviet geodesy, air phototopography andcartography during the past 40 years" was shown.

AVAILABLE: Library of Congress.

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LEVCHENKO, G.I., admiral, otvetstvennyy red.; DEMIN, L.A., dots., kand. geogr. nauk, inzh.-kontr-admiral, glavnyy red.; FRUMKIN, N.S., polkovnik, zamestitel' otvetstvennogo red.; ABAN'KIN, P.S., admiral, red.; ALAFUZOV, V.A., prof., kand. voenno-morskikh nauk, admiral, red.; ANAN'ICH, V.Ye., kontr admiral zapasa, red.; ACHKASOV, V.I., kand. istor. nauk, kapitan 1 ranga, red.; BARANOV, A.N., red.; BELLI, V.A., prof., kontr-admiral v otstavke, red.; BESKROVNYY, L.G., prof., doktor istor. nauk, polkovnik zapasa, red.; BOLTIN, Ye.A., kand. voen. nauk, general-mayor, red.; VERSHININ, D.A., kapitan 1 ranga, red.; VITVER, I.A., prof., doktor geogr. nauk, red.; GEL'FOND, G.M., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red., GLINKOV, Ye.G., inzh.-kontr-admiral v otstavke, red.; YELISEYEV, I.D., vitse-admiral, red.; ZOZULYA, F.V., admiral, red.; ISAKOV, I.S., prof., Admiral Flota Sovetskogo Soyuza, red.; KAVRAYSKIY, V.V. [deceased], prof., doktor fiz.-mat. nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., red.; KOZLOV, I.A., dots. kand. voenno-morskikh nauk, kapitan 1 ranga, red.; KOMAROV, A.V., vitse-admiral, red.; KUDRYAVTSEV, M.K., general leytenant tekhnicheskikh voysk, red.; LYUSHKOVSKIY, M.V., dots., kand. istor. nauk, polkovnik, red.; MAKSIMOV, S.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; OKUN', S.B., prof., doktor istor. nauk, red.; ORLOV, B.P., prof., doktor geogr. nauk, red.; PAVLOVICH, N.B., prof., kontr-admiral v otstavke, red.; PANTELEYEV, Yu.A., admiral, red.; PITERSKIY, N.A., kand. voenno-morskikh nauk, kontr-admiral, red.; PLATONOV, S.P., general-leytenant, red.; POZNYAK, V.G., dots., general leytenant, red.; SALISHCHEV, K.A., prof., doktor tekhn. nauk,

(Continued on next card)

LEVCHENKO, G.I.---(continued) Card 2.

red.; SIDOROV, A.L., prof., doktor istor. nauk., red.; SKORODUMOV, L.A., kontr-admiral, red.; SNEZHINSKIY, V.A., prof., doktor voenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SOLOV'YEV, I.N., dots., kand. voenno-morskikh nauk, kapitan 1 ranga, red.; STALBO, K.A., kontr-admiral, red.; STEPANOV, G.A. [deceased], dots., vitse-admiral, red.; TOMASHEVICH, A.V., prof., doktor voenno-morskikh nauk, kontr-admiral v otstavke, red.; TRIBUTS, V.F., kand. voenno-morskikh nauk, admiral, red.; CHERNYSHOV, F.I., kontr-admiral, red.; SHVEDE, Ye.Ye., prof. doktor voenno-morskikh nauk, kontr-admiral, red.; CHURBAKOV, A.I., tekhn. red.; VASIL'YEVA, Z.P., tekhn. red.; VIZIROVA, G.N., tekhn. red.; GOROKHOV, V.I., tekhn. red.; GRIN'KO, A.M., tekhn. red.; KUBLIKOVA, M.M., tekhn. red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn. red.; CHERNOGOROVA, L.P., tekhn. red.; GUREVICH, I.V., tekhn. red.; BUKHANOVA, N.I., tekhn. red.; NIKOLAYEVA, I.N., tekhn. red.; RADOVIL'SKAYA, E.O., tekhn. red.; TIKHOMIROVA, A.S., tekhn. red.; BELOCHKIN, P.D., tekhn. red.; LOYKO, V.I., tekhn. red.; ROMANYUK, I.G., tekhn. red.; YAROSHEVICH, K.Ye., tekhn. red.

[Sea atlas] Morskoi atlas. Otv. red. G.I. Levchenko. Glav. red. L.A. Demin. [Moskva] Izd. Glav. shtaba Voenno-morskogo flota. Vol.3. [Military and histcrical. Pt.1. Pages 1-45] Voenno-istoricheskii. Zamestitel' otv. red. po III tomu N.S. Frumkin. Pt.1. Listy 1-45. 1958. _____ [Military and historical maps, pages 46-52]

(Continued on next card)

LEVCHENKO, G.I.---(continued) Card 3.
Voenno-istoricheskie karty, listy 46-52. 1957. (MIRA 11:10)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. 2. Nachal'nik Glavnogo upravleniya geodezii i kartografii Ministerstva vnutrennikh del SSSR (for Baranov). 3. Chlen-korrespondent Akademii nauk SSSR (for Kalesnik). 4. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov).

(Ocean--Maps)

BARANOV, A.N

AUTHOR: Podobedov, N. S., Docent SOV/154-58-2-[illegible]

TITLE: Chronicle (Khronika) I

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 2, pp 107-109 (USSR)

ABSTRACT: More than 500 specialists participated in the scientific and technical conference on geodesy, aerophotography, and cartography held from October 24 to 28, 1957. The following persons spoke in the plenary sessions of the conference: A. N. Baranov, Head of the GUGK, on: "Soviet Geodesy, Aerophotography, and Cartography over the Past Forty Years." A. S. Nikolayev, Major-General of the Technical Troops: "The Part Played by Geodesy in the Defense of the USSR." Professor G. V. Romanovskiy: "The Present State and Perspective Development of Aerophotography in the USSR." Professor P. S. Zakatov: "The Present State and Fundamental Tasks of Geodetic Instruction in the USSR." Docent N. S. Podobedov: "Today's Topographical Maps and the Fundamental Problems and Ways of Perfecting the Maps." Yu. D. Bulanzhe, Doctor of Physical-Mathematical Sciences: "Soviet Participation in the International Geophysical Year." In the section on geodesy reports were given by the following persons: V. A.

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Velichko, Candidate of Technical Sciences, reported on "The Use of Light Locations for the Establishment of Geodetic Nets." S. V. Yeliseyev, Docent, spoke on "The Tasks and Present State of Production of Geodetical Instruments." Docent A. N. Kuznetsov reported on "The Present State and Possibilities of Development of Astronomy." Engineer V. I. Shillinger spoke on "The Present State and Possibilities for Development of Terrain Leveling Instruments." In the section on aerophotographical geodesy Professor M. D. Konshin gave a lecture on "The Determination of the Outer Orientation of Flying Elements, and Methods for Evaluating the Precision of the Instruments Used." Docent A. I. Shershen' reported on "The Basic Tasks of Further Developing Aerial Cameras." Engineer I. D. Kargopolov spoke on "The Rectification of Photogrammetrical Nets." L. M. Gol'dman, Candidate of Geographical Sciences, dealt with the problems of topographical deciphering of aerial photographs. In the section on cartography Docent F. A. Starostin spoke on "The Fundamental Problems of Mathematical Cartography." Professor Yu. V. Filippov discussed the achievements and prospects in the field of maps and atlantes in the USSR. P. K. Koldayev, Candidate of Technical Sciences, spoke on "Ways and Means for Perfecting the Stereo-

. Chronicle. I SOV/154-58-2-13/22

scopic Reproduction of the Map Relief." Docent I. P. Zarutskaya spoke on"Cartographing Climatic Conditions in the USSR." M. P. Bardyukov, Candidate of Technical Sciences, reported on "Non-Argentiferous Photosensitive Layers and Transparent Bases in Cartography." Engineer B. A. Merkulov spoke on "The Application of Microfilm Photographs in Cartography."

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LEBEDEV, Nikolay Nikitich, dotsent; BARANOV, A.N., red.; VASIL'YEVA, V.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Engineering surveys; surveying operations in tunnel construction] Inzhenernaia geodeziia; geodezicheskie raboty pri stroitel'stve tonnelei. Moskva, Izd-vo geodez.lit-ry. Pt.6. 1959. 234 p. (MIRA 12:8)

1. Nachal'nik Glavnogo upravleniya geodezii i kartografii (for Baranov).

(Tunnels--Surveying)

Barabanov, A.A.

PHASE I BOOK EXPLOITATION SOV/4321
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Moscow. Institut inzhenerov geodezii, aerofotos"yemki i kartografii

Trudy, vyp. 31 (Transactions of the Moscow Institute of Engineering Geodesy, Aerial Photography, and Cartography no. 31) Moscow, Geodezizdat, 1959. 163 p. Errata slip inserted. 1,000 copies printed.

Editorial Board: A.I. Mazmishvili (Resp. Ed.), V.I. Avgevich (Deputy Resp. Ed.), G.V. Bagratuni, N.Ya. Bobir, M.N. Volkov, A.I. Durnev, S.V. Yeliseyev, P.S. Zakatov, G.P. Levchuk, N.I. Modrinskiy, M.D. Solov'yev. B.V. Fefilov, and P.F. Shokin; Ed. of Publishing House: T.A. Shamarova; Tech. Ed.: V.V. Romanova.

PURPOSE: This collection of articles is intended for specialists in geodesy, cartography, and photogrammetry.

COVERAGE: The book is a collection of 20 papers presented at the MIIGAiK in October 1957 and printed in abbreviated form. The reports presented discuss the current status and the future prospects for development of aerial photography, topographic mapping, geodesy and geodetic astronomy, instrumentation, photogrammetry and photo interpretation, cartography and its associated mathematical and practical problems. No personalities are mentioned. References follow several of the articles.

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Transactions of the Moscow Institute (Cont.) SOV/4321

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AVAILABLE: Library of Congress (QB 275.M63, no. 31, 1959)

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10/21/60

5(2),3(4)
AUTHOR: Baranov, A. N. SOV/6-59-3-1/16

TITLE: Fortieth Anniversary of the Decree of Lenin on the Establishment of the Higher Geodetic Administration (Sorokoletiye Leninskogo dekreta ob uchrezhdenii Vysshego geodezicheskogo upravleniya)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 3, pp 3-10 (USSR)

ABSTRACT: On March 15, 1919, Lenin signed the decree establishing the Cartographic and Geodetic Survey in the USSR. A short historical survey of the development undergone by this Survey is given here: from 1930 to 1935 the State Geodetic Survey was merged with the Glavnoye geologicheskoye upravleniye (Central Administration of Geology); from June 15, 1938 to the end of that year the Gosudarstvennaya kartografo-geodezicheskaya sluzhba (State Cartographic and Geodetic Survey) belonged to the NKVD of the USSR, and from 1938 it was directly subordinated to the SNK of the USSR. In 1953 the Survey was incorporated in the MVD SSSR (Ministry of Internal Affairs, USSR). The entire country has by now been cartographed on a scale of 1 : 100,000. Topographic surveying is at present being carried out to serve for a large-scale map covering the whole USSR. In surveying,

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the stereotopographic method is being applied to an ever greater extent. Within the forthcoming 7 years it is intended to complete the primary triangulation series all over the national territory. In the course of the levelling of the primary triangulation carried out in 1942-45, all formerly existing special co-ordinate systems were eliminated, and uniform co-ordinate system[illegible] based on Pulkovo from 1942 were introduced all over the national territory. The astronomic and gravimetric levelling will be completed soon. The gravimetric net also serves for studying the shape and the dimensions of the earth. The rules governing the establishment of the State geodetic nets prescribed the triangulation of the 1st and 2nd order to be taken as a basis for the other geodetic nets. Triangulation of the 2nd order has the accuracy of the 1st order and is developed in the polygons of primary triangulation. The optical range finders secure the determination of the length of the lines with a relative error not under 1 : 300,000. With the exception of northern regions, the levelling nets of 1st and 2nd order are all fully completed in the European part of the USSR. The levelling net in the other

territories of the country is to be completed within the next 7 to 10 years. The following results were obtained in the cartographic field: 2 volumes of the big Soviet world atlas have been published; the hypsometric map of the European part of the USSR on a scale of 1 : 1,500,000 has been published under the supervision of T. N. Gunbina; topographic maps on scales of 1 : 200,000, 1 : 300,000, and 1 : 500,000 are being compiled; furthermore a map covering the entire USSR on a scale of 1 : 1,000,000 and the hypsometric maps of the USSR on scales of 1 : 2,500,000 and 1 : 4,000,000 have been published. At present the following works are in progress: agricultural atlas of the USSR; physical-geographical atlas of the USSR; comprehensive atlas of the USSR; political world atlas; comprehensive atlas of China; historical atlas of geographic discoveries and researches; comprehensive atlantes of the Ukrainskaya SSR and the Moldavskaya SSR, the Belorusskaya SSR, Gruzinskaya SSR, and the Uzbekskaya SSR. The following outstanding and meritorious persons are mentioned: The scientists F. N. Krasovskiy, M. S. Molodenskiy, N. A. Urmayev, A. A. Izotov, M. M. Rusinov, G. V. Romanovskiy, M. D. Konshin, V. V. Kavray-

skiy, M. D. Solov'yev, K. A. Salishchev, Yu. V. Filippov, S. I. Shurov, M. I. Nikishov. For over 20 years the following have been working on the establishment of geodetic marks: A. V. Prokof'yev, I. F. Levakov, S. A. Arkhangel'skiy, N. I. Zarubin, P. P. Vlasov, M. M. Vdovin, I. F. Korneyev, T. V. Yevtushenko. For over 20 years observations of trigonometrical points have been made by: A. P. Zhumilin, S. D. Sarymov, A. F. Shvetsov, K. A. Bogdanovich, N. A. Bronovitskiy, V. S. Zaytsev, I. I. Tikhanushkin, A. P. Kamenskikh achieved extraordinary skill in carrying out highly accurate levellings. P. I. Polikarpov, P. D. Golubev, V. N. Markov, V. G. Prokudin, N. M. Usachev worked for 20 years on the selection of places for trigonometrical points under difficult physical-geographic conditions. The gravimetry experts N. V. Zhukov, V. P. Tarasov, V. I. Kunegin have been working for over 20 years. The best topographers are: N. F. Viktorov, N. G. Prokhorova, M. S. Khodilina, P. P. Fedorov, N. M. Fomina, V. P. Zarnitskiy, V. G. Gur'yev, A. M. Gelashvili, M. S. Klanovets, I. P. Yashin, A. P. Saltykov, V. A. Larionov, A. M. Boldashev, M. Ya. Pinchuk.

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The best geodesists are: N. I. Anikhovskiy, B. V. Rogozin, A. I. Bokov, I. A. Uzdanov, G. I. Derevyanko, V. Ya. Beregovykh, A. S. Platunov, I. K. Zadorozhnyy, V. D. Krasnikov, I. I. Zamoshchikov. M. I. Stychkov, the best photographic laboratory assistant of the Moskovskoye AGP (Moscow AGP) worked in the production for 30 years. Photogrammetry experts L. V. Pavlov, S. A. Pylayev, F. P. Shevchenko are the best "rationalizers" in the GUGK-system. The best in the internal service are: P. Ye. Shulyak, M. A. Fedoseyev, A. N. Potapenko, G. G. Khasanova, V. D. Kovalenko, A. S. Tret'yakova. Among the cartographers, the following are mentioned: Chief Editors S. N. Soldatov, L. P. Chetverikova, S. P. Teplova, I. M. Itenberg, I. B. Doboshinskaya, V. N. Salmanova, T. N. Gunbina, O. N. Plyusnina, L. I. Markova. D. I. Smirnov, Z. I. Aleksandrova, I. V. Gurevich were outstanding in drawing maps. The Chief Editor of the NRKCh, A. I. Semenov, Head of the Compilation Department (sostavitel'skiy tsekh) of the Minskaya kartograficheskaya fabrika (Minsk Cartographic Institute) A. O. Levshinov, D. A. Larin, S. F. Sadchikov, and G. N. Bashlavina deserve credit for having contributed to the

training of young specialists. The planned increase of the surveying works and production of maps within the framework of the 1959-1965 Plan is briefly mentioned. The great help given by the Soviet Geodetic Service to the Chinese Geodetic Service is pointed out.

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BARANOV, A.N.

TITLE: Scientific-technical Conference of the MIIGA i K in 1959 (Nauchno-tekhnicheskaya konferentsiya MIIGA i K 1959 g.)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1959, Nr 3, pp 144 - 146 (USSR)

ABSTRACT: The periodic scientific-technical conference of the Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers) was held on April 22-24, 1959, with the participation of 500 persons. 31 lectures were delivered. The introductory speech was held by Professor A. A. Izotov. Candidate of Philosophical Sciences A. I. Ivanov lectured on "The Outstanding Work of Materialistic Philosophy"; Candidate of Technical Sciences A. V. Kondrashkov on "Radioelectronics and Geodesy"; Candidate of Technical Sciences G. V. Bagratuni on "Accuracy of the Solution of the Inverse Position Computation With Coordinates of Different Geodetic Systems"; Candidate of Technical Sciences P. F. Shokin reported on "Gravimetry in Today's Stage of Development"; Candidate of Technical Sciences

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V. D. Bol'shakov on "Investigation of the Rules Governing the Distribution of Errors When Generalizing the Relief in Photography"; Post-graduate Student Yu. V. Mokhov on "The Influence of the Rounding Error on the Accuracy of Solutions of Linear Equation Systems". Post-graduate Student N. D. Drozdov reported "On the Solution of Linear Systems in the Compensation of Geodetic Nets". Docent V. M. Korolevtsev dealt with "The Experience in the Application of Parallactic Polygonometry With Short Basis and Constant Vertical Basis". Doctor of Physical and Mathematical Sciences A. M. Faynzil'berg lectured on "Some Integrals From the Theory of Surfaces and Their Application to the Mechanics of Artificial Earth Satellites"; Candidate of Technical Sciences A. S. Valuyev on "The Stereocomparator With Correctors". Assistant N. I. Burov spoke on "Photogrammetric Method of Determining the Altitudes of Luminous Clouds". Candidate of Technical Sciences K. N. Veselovskiy reported on "The Generalization of the Formulas for the Plane Aerial Survey and the Altitudinal Aerial Survey". Candidate of Technical Sciences B. N. Rodionov and Candidate of Technical Sciences N. P. Zakaznov

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dealt with "Central Shutters of Band Type Aerial Cameras". Candidate of Technical Sciences B. N. Rodionov spoke on the "Stroboscopic Collimator Visor"; Engineer V. I. Yerkhov reported on a "Computing Gear for the Automatic Entry of the Airplane in the Aerial Photography Path". Post-graduate Student Yu. S. Kuznetsov spoke on the "Application of the Instantaneous Photography for Aerial Camera Testing". Assistant Ye. P. Arzhanov spoke on the "Computation of the Aerial Camera Constants"; Engineer V. I. Grushin, Chief Technician of the Geotekhkontora Gosplana RSFSR on "Some Results and Tasks Related to Large-scale Phototheodolite Surveying Operations"; Doctor of Technical Sciences V. I. Sukhov on "The Problem Concerning the Contents of the New Map on the Scale of 1 : 2500000"; Doctor of Technical Sciences A. I. Preobrazhenskiy on "Mineral Deposits in the USSR and Their Reproduction on Economic Maps"; Assistant S. S. Sudakova on the "Method of Geographic Investigation on the Field During the Preparatory Editorial Work on the Cartographing Object (From the Working Experience Acquired by the Meshcherskaya ekspeditsiya (Meshcherskaya Expedition of the MIIGA i K 1958)".

Assistant A. S. Tolstoukhov dealt with "The Problem of Improving the Relief Representation of a Flat Inhabited Territory on the Topographic Map on the Scale of 1 : 10000". Candidate of Technical Sciences Yu. S. Bilich spoke on "Maps of Cultivated Areas in the Comprehensive Atlantes of the Oblast'". Candidate of Technical Sciences I. I. Men'shikov dealt with "A. S. Popov - Scientist, Inventor, Pedagogist (On the 100th Birthday of A. S. Popov)". Senior Lecturer N. Y. Yakovlev lectured on "Mirror Lens Objectives With Great Luminous Intensity". Professor I. G. Sarkin reported on "The Problem of Compensating the Variations and the Increase of Accuracy in the Measurement of Physical Quantities". Candidate of Technical Sciences V. A. Afanas'yev dealt with "Methods of Measuring Investigations Concerning Optical Main Characteristics of Aerial Camera Objectives With Dropping Atmospheric Pressure and Temperature". Engineer V. M. Nazarov lectured on "Vertical Axis Systems of High-precision Optical Theodolites". Assistant V. S. Usov spoke on "Sighting by the Aid of Telescopes With Zone Plates". Post-graduate Student P. P. Zakharov dealt with "The Automation of

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Measurements on a Pair of Stereoscopic Pictures". At the Plenary Session held on April 24 the Chief of the Glavnoye upravleniye geodezii i kartografii MVD SSSR (Chief Administration of Geodesy and Cartography of the Ministry of Internal Affairs of the USSR), A. N. Baranov lectured on "The Seven-year Plan and the Development of Topographic-geodetic and Cartographic Work".

3.(2),3 (4)

AUTHOR: None Given SOV/6-59-5-23/26

TITLE: Chronicle (Khronika)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 5, pp 75-76 (USSR)

ABSTRACT: From March 30 to April 2, 1959, a conference of the directors of the aerogeodetic enterprises and teams, of the managers of the cartographical establishments and of the NRKCh, as well as of the heads of the departments of the State Geodetic Supervising Authority of the MVD of the republics, of the UVD of the kray and oblast' was held in Moscow in the Glavnoye upravleniye geodezii i kartografii MVD SSSR (Main Administration of Geodesy and Cartography of the Ministry of the Interior of the USSR). In the plenary meeting, Comrade A. N. Baranov, Manager of the GUGK, spoke on "Plan of the Topographic-geodetic and Cartographic Studies for 1959-1965." In the Geodetic Section, Comrade S. G. Sudakov, Deputy Manager of the GUGK, spoke on "On the Plan of the Topographic-geodetic Studies for 1959." In the Cartographic Section, A. N. Baranov, Manager of the GUGK, spoke on "Plan of the Cartographic Industry for 1959." In the section of the State Geodetic Supervising Authority of the MVD of the Republics,

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the UVD of the kray and oblast', G. K. Zubakov, Deputy Manager of the GUGK MVD SSSR, spoke on "The Results of the Activities of the Departments of the State Geodetic Supervising Authority in 1958, and the Tasks in Future Work." The Conference approved the plan for the promotion of topographic-geodetic and cartographic studies in the years 1959-1965. The appearance of the following new cartographic publications is envisaged: physico-geographical world atlas, comprehensive atlas of the USSR, agricultural atlas of the USSR, comprehensive China atlas, school atlasses, comprehensive atlasses of the Union Republics and of individual oblast'. The Conference took decisions concerning measures for the improvement of the quality of topographic-geodetic studies.

BARANOV, A.N.

3(2),3(4)
AUTHOR: None Given SOV/6-59-6-21/22

TITLE: Chronicle (Khronika)

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 6, pp 74-75 (USSR)

ABSTRACT: At the Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers), the Ordinary Scientific Conference took place on April 22-24. A. I. Ivanov, Docent, Candidate of Philosophic Sciences, spoke on "The Outstanding Work of Materialistic Philosophy". A. N. Baranov, Chief of the Glavnoye upravleniye geodezii i kartografii (Main Administration of Geodesy and Cartography) spoke "On the Seven-year Plan for the Development of Topographic-geodetic and Cartographic Work". The following reports were delivered in the geodetic section: A. M. Paynail'ber, Professor, "Some Integrals of the Surface Theorems and Their Application to the Mechanics of Artificial Satellites of the Earth".- A. V. Kondrashkov, Docent, "Radio-electronics and Geodesy".- G. V. Bagratuni, Docent, "Accuracy in the Solution of Inverse Position Computations by the Coordinates of Different Geodetic Systems".- P. F. Shokin, Docent,

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"Gravimetry in the Present Stage of Development".- Yu. V. Mokhov, Assistant, reported on the influence of rounding errors on the accuracy of solution of linear equation systems.- V. D.Bol'shakov, Candidate of Technical Sciences, spoke on the "Investigation of the Rules of Distribution of Errors in Generalizing the Relief in Surveys".- N. D. Dmoshev, Post-graduate Student, reported on the solution of linear systems for the adjustment of geodetic networks.- V. M. Komolentsev, Docent, demonstrated an apparatus designed by him for parallactic traversing with a short constant vertical basis.- The following reports were delivered in the aerophotogeodetic section: A. S. Walby [illegible], Docent, reported on a parallactic reducer, an additional device to the stereo-comparator.- N. N. Veselovskiy, Docent, spoke on the possibility of generalizing the formulas for the air survey of outlines and altitudes.- B. N. Rodionov and N. P. Zakaznov, Docents, reported on a band-shaped central shutter for aerial cameras, B. N. Rodionov on a stroboscopic collimator sight, B. N. Rodionov and Engineer V. I. Yerkhov on the scheme of a computing device for the automatic entry of the airplane into the route for air surveys.- Ye. P. Arzhanov presented some simplifications for the computation of constants of aerial cameras.- Yu. N. Kuznetsov,

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Post-graduate Student, spoke on the use of rapid film recording for the investigation of aerial-camera shutters.- V. I. Grishin, Engineer of the Gectekhkontora Gosplana RSFSR, spoke "On Some Results and Tasks in the Execution of Large-scale Photo-theodolite Surveys".- The following reports were delivered in the cartographic section: Professor V. I. Sukhov spoke on the content of the new map on a scale of 1 : 2,500,000.- Professor A. I. Preobrazhenskiy spoke on "Mineral Resources of the USSR and Their Representation on Economic Maps".- S. S. Sudakova, Assistant, reported on the method of geographic field research during the preparatory editorial work at the object of cartography.- A. S. Tolstoukhov, Assistant, reported on the improvement of relief representation of wooded flat country on the topographic map on a scale of 1 : 10,000.- Yu. S. Bilich, Assistant, reported on maps of apartment building in the atlases of the oblast'.- In the section of building of apparatus, I. I. Men'shikov, Docent, spoke on the life of A. S. Popov.- N. V. Yakovlev, Assistant, reported on reflecting lenses, Professor I. G. Surkin on the increase in accuracy in measuring physical magnitudes, Engineer V. M. Nazarov on vertical axial systems for highly accurate optic theodolites, V. S. Usov, Assistant, on sighting with telescopes with zone plates,

Chronicle

SOV/6-59-6-21/22

P. P. Zakharov, Assistant, on the automatization of evaluation of image couples.

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BARANOV, A.N.

Soviet geodesy and cartography during the past 40 years.
Trudy MIIGAIK no.31:5-10 '59. (MIRA 13:3)

1.Nachal'nik Glavnogo upravleniya geodezii i kartografii Ministerstva vnutrennikh del SSSR.
(Geodesy) (Cartography)

LEBEDEV, Nikolay Nikitich. Prinimal uchastiye KONONOV, G.M., inzh. BARANOV, A.N., red.; SHURYGINA, A.I., red.izd-va; BOTVINKO, M.B., tekhn.red.

[Engineering geodesy; geodetic operations in city planning and construction] Inzhenernaia geodeziia; geodezicheskie raboty pri planirovke i stroitel'stve gorodov. Moskva, Izd-vo geodez.lit-ry. Pt.5. 1960. 181 p. (MIRA 14:3)
(Surveying)

CHEREMISIN, Mikhail Sergeyevich; BARANOV, A.N., red.; CHURYGINA, A.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Surveying nets in extensive underground construction] Geodezicheskie seti pri krupnom podzemnom stroitel'stve.[n.p.] Izd-vo geodez. lit-ry, 1960. 222 p. (MIRA 14:11)
(Surveying) (Underground construction)

FEL', Sergey Yefimovich; BARANOV, A.N., red.; SHAMAROVA, T.A., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Russian cartography in the 18th century] Kartografiia Rossii XVIII veka. Moskva, Izd-vo geodez.lit-ry, 1960. 226 p. (MIRA 14:4)

(Cartography)

AUTHOR: Baranov, A. N., Head of the Glavnoye upravleniye geodezii i kartografii MVD SSSR (Main Administration of Geodesy and Cartography of the Ministry of Internal Affairs of the USSR)

S/154/60/000/01/003/017
B007/B123

TITLE: The Duties of the Geodetic Survey in Meeting the Seven-year Plan of the Economic Development of the USSR

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1960, Nr 1, pp 9-15 (USSR)

TEXT: The seven-year plan of geodetic survey was set up according to the resolutions passed at the XXI Party Congress of the KPSS (Communist Party of the Soviet Union). Up to 80% of capital investment is provided for work in the East of the USSR by the GUGK (Main Administration of Geodesy and Cartography). The main tasks for 1959-1965 are the following: performance of the most urgent topographic surveys on a scale of 1 : 25000 and 1 : 10000, finishing the work for building up the astronomical-geodetic net and the main State elevation nets of the USSR, furnishing the Soviet schools with school maps and atlases as certified primers, production of cartographic principal works, carrying out topographic and geodetic work with novel instruments of higher efficiency. A survey of the topographic and geodetic work to be carried out in 1965 as compared to

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1958 is given in a table. It should comprise: finishing the topographic survey of the Urals, the areas east of the Urals (here a gas supply line between Salekhard and Sverdlovsk will be established); the areas on the lower and middle course of the Angara River and the iron ore basin of Angara-Pit mentioned by N. S. Khrushchev in his report; the coal mines north of it; the areas of Krasnoyarsk-Achinsk with extensive building programs; the diamond fields of Yakutiya and the coal basin of South-Yakutiya, the areas at the mouth of the Vilyuy and the Vilyuy lowland with petroleum- and natural gas occurrences; more than a million km^2 will be topographically surveyed in Kazakhstan; the natural gas deposit of "Gazli" in Uzbekistan; the areas adjacent to the Karakumskiy Channel; petroleum areas east of the Caspian Sea. Topographic surveying will be carried out in the following areas: on the lower course of the rivers Shilka and Argun', on the upper course of the Amur River, in the towns and populated areas of the Moscow oblast' in connection with the gas supply of these areas; in the area of the anomaly of Kursk and near the Belgorodskiy and Kurskiy sovnarkhoz; in the area of the dam of the Vilyuyskaya GES (Vilyuy Water Power Plant). A survey is given of the use of new or improved instruments. A special role is attributed to optical and radio range finders. Three-edged wood signals and portable metal signals will be used. Drobyshev's stereograph will be improved.

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two new models, SD-1M and SD-2 are provided. Three new models of Drobyshev's stereometer are provided: STD-3, STD-4, STD-5. At present, a new photoreducer is being developed as well as a rectifier for surveying mountainous areas and a field stereometer PS-1. Electronic computers for adjustment calculations are now being introduced. A new high-precision optical theodolite is already in use; a meridian instrument with a meniscus tube and photographic recording are being developed. Also a prismatic astrolable, a zenith telescope, and a field quartz chronometer are being developed. Gasoline-engine saws, tractors, truck cranes, dredges, and airplanes are intended to be widely used. A survey of the volume of instrument production planned is given in a table. The cartographic industry plans to publish the following: an atlas of Soviet agriculture, a multi-purpose atlas of the Chinese People's Republic, a physical-geographic world atlas, and a new edition of the world atlas. A new cartographic institute is under construction in Kiyev, and the ones in Tbilisi and Tashkent will be reorganized. For fulfilling the plan provided, 3118 engineers and 7349 technicians will be necessary. There are 3 tables.

ASSOCIATION: Glavnoye upravleniye geodezii i kartografii MVD SSSR (Main Administration of Geodesy and Cartography of the Ministry of Internal Affairs of the USSR)

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BARANOV, A.N., akademik, red.; GERASIMOV, I.P., red.; KALESNIK, S.V., red.; SALISHCHEV, K.A., doktor tekhn. nauk, red.; GORNUNG, M.B., kand. geogr. nauk, red.; VOLYNSKAYA, V.S., red.izd-va; NOVICHKOVA, N.D., tekhn. red.; GOLUB', S.P., tekhn. red.

[The 19th International Geographical Congress in Stockholm]XIX Mezhdunarodnyi Geograficheskii Kongress v Stokkholme. Moskva, Izd-vo Akad. nauk SSSR, 1961. (MIRA 14:11)

1. International Geographical Congress, 19th, Stockholm, 1960. 2. Chlen-korrespondent AN SSSR (for Kalesnik). 3. Institut geografii AN SSSR (for Gerasimov).

(Geography—Congresses)

KOMKOV, Anatoliy Markovich; BARANOV, A.N., red.; SHAMAROVA, T.A., red. izd-va; SUNGUROV, V.S., tekhn. red.

[Government cartography in the United States] Gosudarstvennaia kartografiia SShA. Moskva, Izd-vo geodez.lit-ry, 1961. 191 p. (MIRA 14:12)

(United States--Cartography)

BARANOV, A.N.

At the 19th International Geographical Congress and the 10th General Assembly of the International Geographical Union. Geod. i kart. no.1:62-66 Ja '61.
(Geography--Congresses) (MIRA 14:9)

BARANOV, A.N.

Completion of the plan for 1960 and problems in store for the topographic and geodetic service in 1961. Geod. i kart. no. 3:3-6 Mr '61. (MIRA 14:4)

(Surveying) (Cartography)

BARANOV, A.N.

Problems of geodesy and cartography in the light of the new program of the CPSU. Geod. i kart. no.11:3-7 N '61. (MIRA 15:1)
(Surveying) (Cartography)

EDEL'SHTEYN, Aleksandr Vladimirovich; BARANOV, A.N., red.; KOMAR'KOVA, L.M., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Technology of the publication of maps and atlases; a short reference book] Tekhnologiia izdaniia kart i atlasov; kratkoe spravochnoe posobie. Moskva, Geodezizdat, 1962. 253 p. (MIRA 15:6)

(Cartography)

LARIN, Dmitriy Aleksandrovich; BARANOV, A.N., red.; SHAMAROVA, T.A., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Scientific and technical projection of geographical maps] Nauchno-tekhnicheskoe proektirovanie geograficheskikh kart. Moskva, Gosgeoltekhizdat, 1963. 165 p. (MIRA 16:6)
(Map projection)

POTEKHIN, I.I., glav. red.; BARANOV, A.N., red.; BELYAYEV, Ye.A., red.; GELLER, S.Yu., red.; GRAVE, L.I., st. nauchnyy red.; GRIGOR'YEV, A.A., red.; GUBER, A.A., red.; KULAGIN, G.D., red.; MALIK, Ya.A., red. MANGHKHA, P.I., red.; MILOVANOV, I.V., red.; NERSESOV, G.A., red.; OL'DEROGGE, D.A., red.; ORLOVA, A.S., red.; POPOV, K.M., red. ROZIN, M.S., kand. ekon. nauk, red.; SMIRNOV, S.R., red.; UFIMOV, I.S., red.; SHVEDOV, A.A., red.; YASTREBOVA, I.P., red.; PAVLOVA, T.I., tekhn. red.

[Africa; encyclopedia] Afrika; entsiklopedicheskii spravochnik. Glav. red. I.I.Potekhin. Chleny red. kollegii: A.N.Baranov i dr. Moskva, Vol.1. A - L. 1963. 474 p. (MIRA 16:4)

1. Sovetskaya entsiklopediya, Gosudarstvennoye nauchnoye izdatel'stvo, Moscow.
(Africa--Dictionaries and encyclopedias)

BARANOV, A.N., dotsent; KARTASHOV, Yu.D., assistent

Soils in the trans-Volga area of the Kineshma Agricultural Administration of Ivanovo Province and ways for increasing their fertility. Sbor. nauch. trud. Ivan. sel'khoz. inst. no.21:46-90 '63. (MIRA 18:5)

TETERIN, Yegor Nikolayevich; SHUBIN, Nikolay Vasil'yevich; OCHERET'KO, Aleksandr Konstantinovich; PAVLOV, Vitaliy Fedorovich, dots; BARANOV, A.N., retsenzent; SUKHOV, A.I., retsenzent; POVALYAYEV, P.I., nauchn.-pedagog. rabotnik, retsenzent; PROKOF'YEV, F.I., nauchn.-pedagog. rabotnik, retsenzent; RYCHKOV, A.I., nauchn.-pedagog. rabotnik, retsenzent; YLROV, S.I., retsenzent; KHROMCHENKO, F.I., ved. red.

[Organization and planning of surveying and topographical work] Organizatsiia i planirovanie geodezicheskikh i topograficheskikh rabot. Moskva, Nedra, 1965. 299 p. (MIRA 18:7)

1. Zaveduyushchiy kafedroy organizatsii i planirovaniya kartografo-geodezicheskikh rabot Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i kartografii (for Sukhov). 2. Kafedra organizatsii i planirovaniya kartografo-geodezicheskikh rabot Moskovskogo instituta inzhenerov geodezii, aerofotos"emki i kartografii (for Povalyayev, Prokof'yev, Rychkov, Pavlov). 3. Glavnoye upravleniye kapital'nogo stroitel'stva Ministerstva putey soobshcheniya SSSR (for Rychkov). 4. Nachal'nik Glavnogo upravleniya geodezii i kartografii SSSR (for Baranov).

BARANOV, A.N.

Coastal currents of the Gulf of Riga. Trudy GOIN no.87:51-57 '65.
(MIRA 19:1)

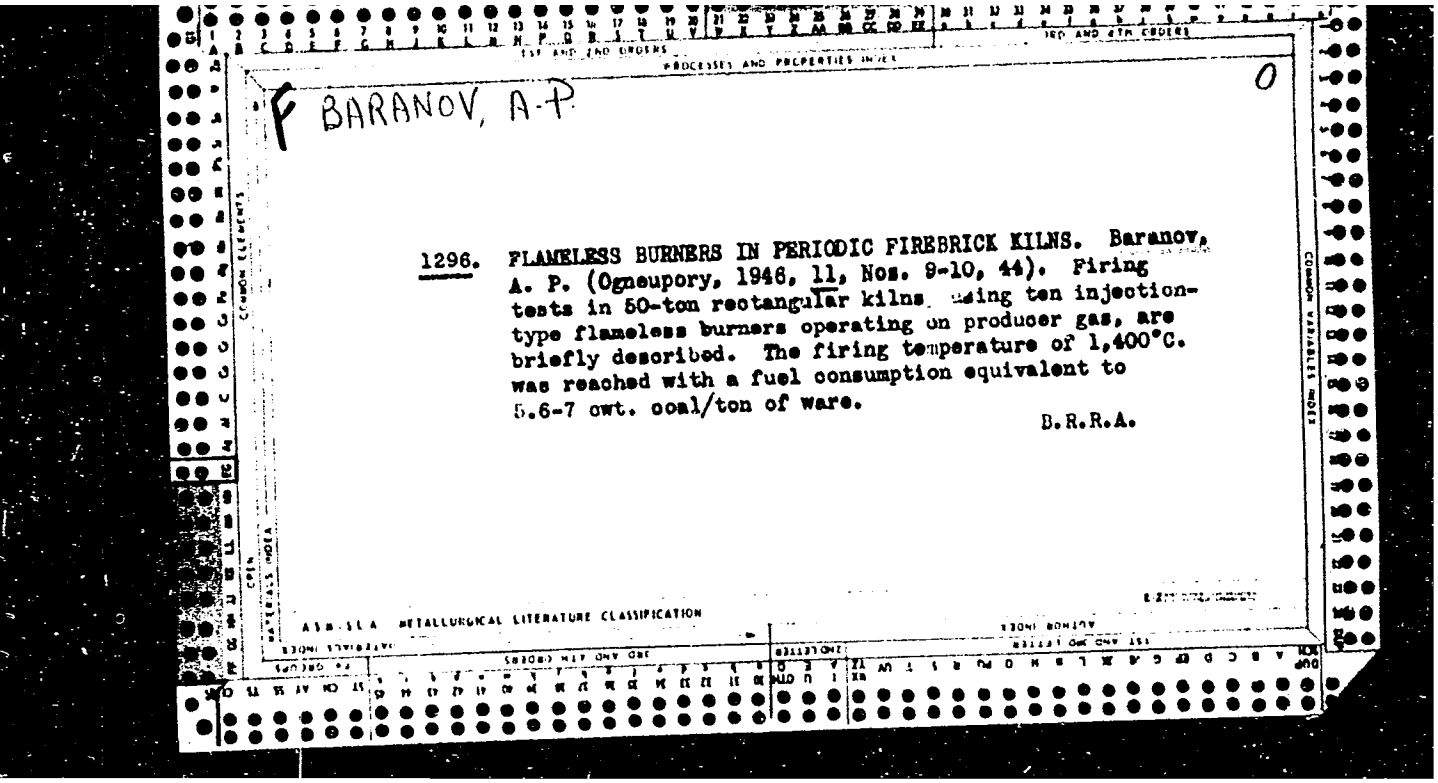
BARANOV, A.N.; ZARUTSKAYA, I.P.; KULEYAVTSEV, M.K.; [illegible]

The outstanding Soviet cartographer Konstantin [illegible] Salishchev; his 60th birthday and 40th anniversary of his scientific activities. Vest. Mosk. un. Ser. 5: Geog. [illegible] 80-82 S-O '65.

NAUMOV, A.N.

Acute appendicitis in persons over 50 years of age. Sov. med. 28 no.1:55-56 Ja '65. (MIRA 18:5)

1. Krasnovskaya gorodskaya bol'nitsa (glavnyy vrach N.I.Naumov) Penzenskoy oblasti.



F BARANOV, A.P.

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1296. FLAMELESS BURNERS IN PERIODIC FIREBRICK KILNS. Baranov, A. P. (Ogneupory, 1946, 11, Nos. 9-10, 44). Firing tests in 50-ton rectangular kilns using ten injection-type flameless burners operating on producer gas, are briefly described. The firing temperature of 1,400°C. was reached with a fuel consumption equivalent to 5.6-7 cwt. coal/ton of ware.

B.R.R.A.

BARANOV, Aleksandr Potapovich; [illegible], N.V.; VA[illegible], L.G., kand. tekhn. nauk, [illegible]; [illegible], [illegible], kand. tekhn. nauk, nauchn. red.; [illegible], [illegible], red.

[New sources of electrical power for ships] [illegible] elektricheskoi energii [illegible]. Leningrad, Sudostroenie, 1965. 131 p. (MIRA 18:10)

BARANOV, A.P.

Principle of the action of a hydraulic torque converter. Avt.trakt.prom. no.6:16 Je '53. (MLRA 6:6)
(Automobiles--Transmission devices)

BARANOV, A.P., dotsent, kand. tekhn. nauk, inzh., kapitan 3-go ranga

New sources of electric power and prospects of using them. Mor. sbor. 47 no.4:72-77 Ap '64. (MIRA 18:7)

L 10397-66 FSS-2/EWT(1)/EEC(k)-2/ETC/EPF(n)-2/EWG(m)/T/EWA(h) LJP(c) DS/WW/AT
AM5024866 Monograph UR/

Baranov, Aleksandr Potapovich

New sources of electric energy for ships (Novyye istochniki elektricheskoy energii dlya sudov), Leningrad, Izd-vo "Sudostroyeniye," 1965. 131 p. illus., biblio. 2000 copies printed.

TOPIC TAGS: electric generator, thermoelectric generator, thermoemissive generator, magnetohydrodynamic generator, electrochemical generator, marine generator

PURPOSE AND COVERAGE: This book is intended for engineering and technical personnel working in the shipbuilding industry. It may also be used as a textbook. It acquaints shipbuilding specialists with particulars on marine applications of new sources of electrical energy. Data is presented on the working principles, characteristics, theory, and calculation of thermoelectric, thermoemissive, magnetohydrodynamic, and electrochemical generators. The data is based on a great number of publications including some works by the author. Some aspects of marine applications of the various types of generators

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UDC: 629.12:621.31

are also considered.

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ACC NR: AP6025643 (N) SOURCE CODE: UR/0413/66/000/013/0094/0094

INVENTOR: Dushits-Kogan, G. D.; Levinson, M. M.; Baranov, A. P.; Bol'shakov, D. F.; Fokin, B. P.

ORG: None

TITLE: Instrumentation for operating conditions of a gas turbine engine with a free turbine. Class 42, No. 183445

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 94

TOPIC TAGS: gas turbine engine, test instrumentation

ABSTRACT: This Author's Certificate introduces instrumentation for operating conditions of a gas turbine engine with a free turbine. The unit contains tachometers, pressure and temperature pickups at the intake, a computer and meter. Operating conditions in the engine are determined by combining the computer and the meter. The combined unit is made in the form of two disc sectors with pins and guide cams. One of the sectors indicates cruising conditions while the other indicates nominal engine conditions.

UDC: 531.781:621.433

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