EXCERPTA MEDICA Sec 7 Vol. 11/11 Pediatrics Nov 57

3045. SAPOZHNIKOVA R.G. Dept. of Hyg. Ped. Res. Inst. of RSFSR, Moscow.
*The microclimate of classrooms and its significance for the pupils' condition (Russian text) PEDIATRIJA 1956, 1 (45-49)

During instruction, the microclimate in a class room becomes progressively more unfavourable, due to increase of temperature, humidity, CO_2 content, and content of organic air components and bacteria. This leads to a disturbance of the mechanisms of thermoregulation and to a decrease of the pupils' working ability.
Cicvárek - Bratislava (VII, 17)

SAMOILENKOVA, K. G., SMIRNOVA, YE. T., GROMBACH, S. M., POLUSHKINOVA, Z. A., PIVLINA, KH. S.

"Hygienic principles of regulation of air temperature in the institutions for young children."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

SAPOZHNIKOVA, R.G.

Hygienic foundations of the system of practical work in school workshops and of factory practice for pupils of grades 5-9. Uch. zap. Mosk. nauch.-issl. inst. san. i gig. no.2:8-11 '59 (MIRA 16:11)

1. Moskovskiy nauchno-issledovatel'skiy institut sanitarii i gigiyeny imeni F.F. Erismana.

*

MAKSAKOVA, Ye.N., kand.med.nauk; SAPOZHNIKOVA, R.G., kand.med.nauk

Clinico-hygienic observations on rheumatic patients attending public schools. Pediatriia 37 no.6:29-35 Je '59. (MIRA 12:9)

1. Iz Nauchno-issledovatel'skogo pediatricheskogo instituta (dir. - kand.med.nauk V.N.Karachevtseva) i Nauchno-issledovatel'skogo sanitarnogo instituta imeni F.F.Erismana (dir. - kand.med. nauk A.Z.Belousov) Ministerstva zdravookhraneniya RSFSR.
(RHEUMATISM, in inf. & child.
educ. of rheum. child. in pub. schools (Rus))

SAPOZHNIKOVA, R.G., kand.med.nauk; POPOVA, N.M., kand.med.nauk; KORENEVSKAYA, Ye.I., kand.med.nauk

Vocational training in the schools of Grodno and its hygienic evaluation. Zdrav. Bel. 7 no.9:48-52 S '61. (MIRA 14:10)

1. Institut gigiyeny detey i podrostkov AMN SSSR i Belorusskiy nauchno-issledovatel'skiy sanitarno-gigiyenicheskiy institut.
(GRODNO--CHILDREN--EMPLOYMENT)

SAPOZHNIKOVA, R.G., kand.med.nauk; POPOVA, N.M., kand.med.nauk; KORENEVSKAYA, Ye.I., kand.med.nauk

Work routine of students during industrial training. Gig. i san. 26 no.5:28-33 My '61. (MIRA 15:4)

1. Iz Instituta gigiyeny detey i podrostkov AMN SSSR i Belorusskogo nauchno-issledovatel'skogo sanitarnogo instituta.
(CHILDREN--EMPLOYMENT)

VASIL'YEV, S.V., SAPOZHNIKOVA, R. I.

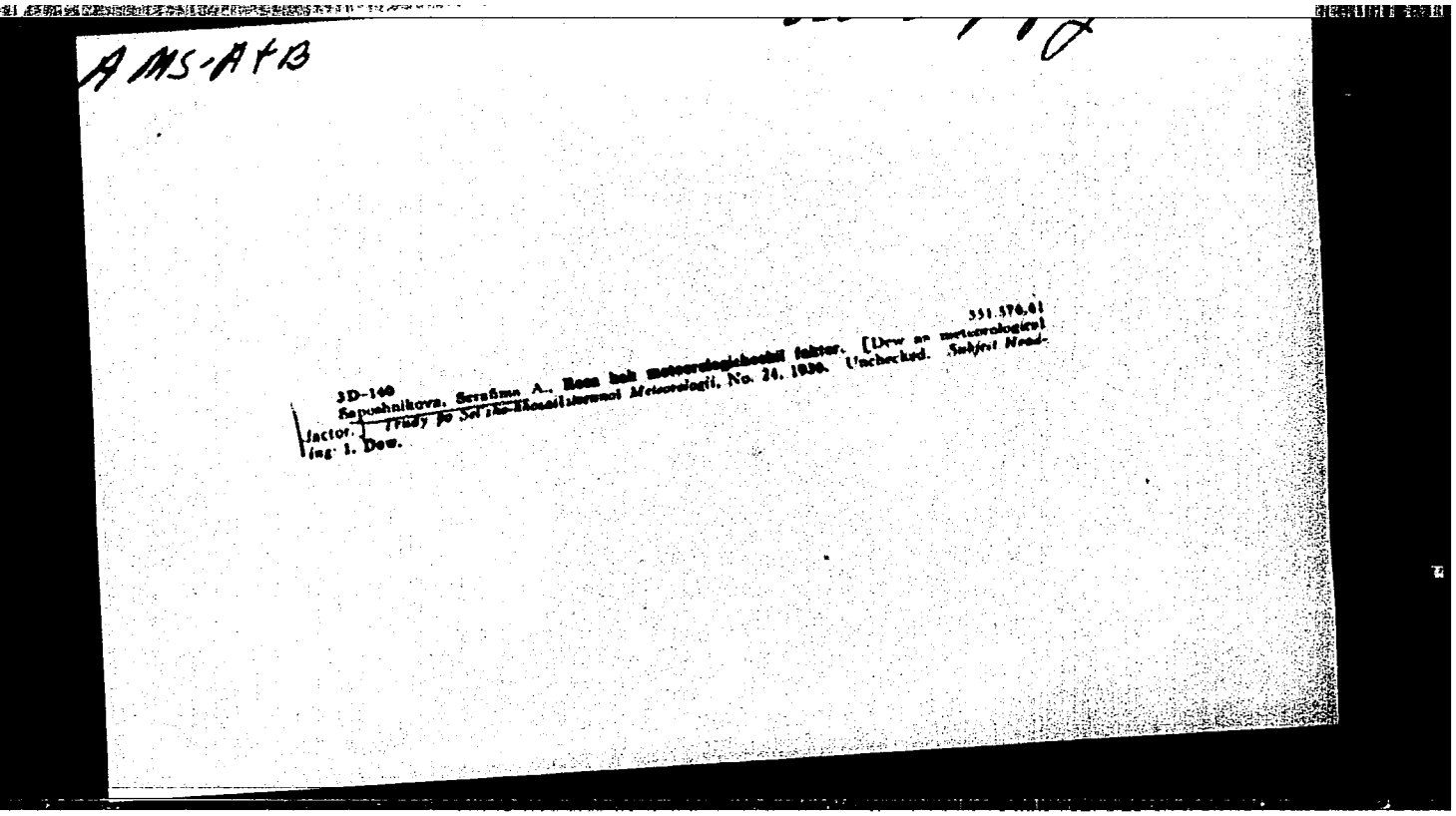
Silver

Reprocessing and utilizing silver wastes from photochemical laboratories for teaching purposes. Khim. v shkole no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress. November, 1952 UNCLASSIFIED.

SPIRIDONOVA, Ol'ga Stepanovna; SAPOZHNIKOVA, Renata Pavlovna; VEDERNIKOVA, Valentina Anatol'yevna; STOLYAROV, K.P., red.

[Methods of the phase analysis of nickel-based alloys] Metody fazovogo analiza splavov na osnove nikelia. Leningrad, 1964. 29 p. (MIRA 18:3)



AMS-A+B

551.576.61

3D-140 Sapushnikova, Serafima A. Rosa kak meteorologicheskiy faktor. [Dew as meteorological factor.] Trudy Po Sel'sko-Khozyaystvennoi Meteorologii, No. 24, 1950. Uncheckd. Subject Head-ing: 1. Dew.

SAPOZHNIKOVA, SERAFIMA AFANAS'EVNA

GERM

551.589.5 551.524.36

6 4-330

*Sapozhnikova, Serafima Afanas'eva. Opyt ispol'zovaniia ul'trakorotkikh riadov nabliudenii i postroenie kart bol'shogo masshtaba. [Using meth[illegible] use of ultra short series [illegible] observation and compila[illegible] maps. [illegible] Leningrad. Agrofizicheskii Institut. Materialy po agroklimaticheskomu raionirovaniiu subtropikov SSSR [illegible] DLC

[illegible] of annual lowest temperatures has been derived. For better approximation, the wind velocity is also taken into account. [illegible] the differences of lowest temperatures [illegible] study weather conditions with [illegible] Relations between the [illegible] lowest temperature and the [illegible] with [illegible]

SAPOZHNIKOVA, S. A.

SAPOZHNIKOVA, S.A. ; SOLOVEYCHIK R.E., redaktor.

[Change in wind velocity with altitude in the lower layer of the atmosphere] Izmenenie skorosti vetra s vysotoi v nizhnem sloe vozdukha. Pod red. R.E. Soloveichika. Leningrad, Gidrometeorologicheskoe izd-vo, 1946. 103 p. (Glavnoe upravlenie gidrometeorologicheskoi sluzhby pri Sovete Ministrov SSSR. Trudy nauchno-issledovatel'skikh uchrezhdenii. Ser. 1: Meteorologiia, vyp. 33) (MLRA 7:5)
(Winds)

SAPOZHNIKOVA, S. A.

551.521

6.10-153

Sapozhnikova, S. A. Priblizhennye raschety sutochnogo khoda radiatsionnogo balansa i ikh dlia opredeleniia vremeni nastupleniia i razrusheniia nochnoi inversii. [Approximate calculation of daily variation of radiation balance during daylight and its use in determining the time of onset and disintegration of the nocturnal inversion.] (In: Solovychikh, K. I., (ed.), Fizika Atmosfery, Leningrad, Gidrometizdat, 1946. p. 19-29.

9 figs., tables, 9 refs.) DLC—The relationship between desert solar radiation upon a horizontal surface R with the height of the sun is expressed by the equation $R = 1.1\ h^{-1.9}$ (values of h begin with 10°). The diurnal variations of direct solar radiation at lat. 50° for different degrees of turbidity are determined. On the basis of the assumption that the daily variation of radiation balance during the daylight hours depends upon the locations of direct radiation, hence upon the solar altitude, and by taking into account the times of zero values, the author calculates the daily radiation balance for Tashkent. It is shown that the solar elevation of 10–15° as an index of zero radiation balance can be used as a first approximation for forecasting the formation and destruction of the nocturnal inversions in the lowest 1.5–2.0 meters above the ground. The criteria for precise forecasting of the appearance of the inversions are outlined and calculated data for latitudes 40–60° are given. *Subject Headings:* 1. Radiation calculations 2. Radiation variations 3. Radiation balance 4. Nocturnal inversions.—*I.L.D.*

SAPOZHNIKOVA, S. A.

"The Chnages in Wind Velocity Depending on the Altitude in the Ground Layer of Air," Trudy Niu GUGMS, Series 1, No 33, 1946.

SAPOZHNIKOVA, S.A.

Meteorological Abst.
Vol. 4 No. 2
Feb. 1953
Bibliography on
Turbulent Exchange

4B-152 551.551 551.506.5

Laikhtman, D. L. and Sapozhnikova, S. A., Arysskaia ekspeditsiia 1945 goda. [Arys expedition of 1945.] U.S.S.R. Glavnoe Upravlenie Gidrometeorologicheskoi Sluzhby, Trudy Nauchno-issledovatel'skikh Uchrezhdenii, Ser. 1. Meteorologiia, No. 39, Fizika Prizemnogo Sloia Atmosfery, p. 3-10, 1947. 5 figs., eqs. DLC—This expedition was organized by the Central Geophysical Observatory for investigation of wind variations near the ground and laws of heat exchange between surface and atmosphere. The twon Arys' is located 125 km NNW from Tashkent in a desert zone. In addition to the usual observations of wind velocity and temperature near the ground, the observations of the solar radiation and basic pilot balloon observations were carried out. Subject Headings: 1. Turbulent transfer of heat 2. Wind profiles 3. Arys' Expedition 1945 4. Arys', Uzbek S.S.R.—N.T.Z.

САРАНИКОВА, С.А.

Meteorological Abst.
Vol. 4 No. 2
Feb. 1953
Bibliography on
Turbulent Exchange

4B-136 551.551 551.584

Saranchikova, Serafima Afanas'evna. Nekotorye osobennosti v raspredelenii temperatury, vlazhnosti i vetra v prizemnom sloe vozdukha. [Some peculiarities in distribution of temperature, humidity and wind in the air layer near the ground.] *U.S.S.R. Glavnoe Upravlenie Gidrometeorologicheskoi Sluzhby, Trudy Nauchno-issledovatel'skikh Uchreshdenii, Ser. 1, Meteorologiia*, No. 39, Fizika Prizemnogo Sloia Atmosfery, p. 44–57, 1947. 10 figs., 2 tables, 4 refs. DLC—These investigations were made by the Arys' expedition of the Central Geophysical Observatory in the summer of 1945 over bare and covered surfaces. For the measurement of wind velocity the English "Meteor" anemometers were used at heights from 0.06 to 5.0 m and the usual electric anemometer at a height of [illegible] m. The temperature and humidity observations at heights of 0.05 m; 0.2 m. 0.5 m and 1.5 m were made by means of Assman psychrometers. Daily variations of these elements and their interrelations are analyzed and discussed. *Subject Headings:* 1. Micrometeorological profiles 2. Arys' Expedition 1945 3. Arys', Uzbek.S.S.R.—*N.T.Z.*

EH 6-11-54

SAPOZHNIKOVA, Serafima Afanas'evna

Meteorological ABSTR
Vol. 4 No. 2
Feb. 1953
Bibliography on
Turbulent Exchange

4B-157 551.511

Sapozhnikova, Serafima Afanas'evna. Teploobmen pochva-vozdukh. [Soil-air heat exchange.] *U.S.S.R. Glavnoe Upravlenie Gidrometeorologicheskoi Sluzhby, Trudy Nauchno-issledovatel'skikh Uchrezhdenii. Ser. I, Meteorologiia*, No. 39, Fizika Prizemnogo Sloia Atmosfery, 1940, p. 77–85. 4 figs., 3 refs. DLC—The author discusses the problem of the heat balance and its dependence on variations of wind velocity, cloudiness, stability of the atmosphere, etc. The analysis made from a series of special observations at Arys' shows that the formula presented before for computation of heat exchange and which uses only wind velocity as the variable value does not give accurate results, especially during warm seasons. *Subject Heading:* 1. Turbulent transfer of heat, 2. Soil-air heat exchange.—*N.T.Z.*

166T82

SAPOZHNIKOVA, S. A.

USSR/Meteorology - Stations Sep/Oct 48
Wind

"Classification of Meteorological Stations With Respect to the Influence of Their Location on Wind Velocity Measurements," S. A. Sapozhnikova

"Meteorol i Gidrol" No 5, pp 24-34

Attempts to generalize results of observations on wind velocity in flatlands or slightly broken terrain with height differences of 200 m. Gives special attention to individual factors determining deformation of wind field, such as topography, vegetation, type of building, etc. Submitted 20 Jun 47.

166T82

AMS/A+B

H

FEB 1951

2.2-96

551.5[illegible]

[illegible] k sel'skokhoziaistvennoi otsenke klimata. [Characteristics of the heat balance of a wheat field applicable to the agricultural evaluation of climate.] *Problemy Fizicheskoi Geografii*, 13:156–168, 1948. 5 figs., 3 tables, 9 refs. DLC—The heat balance of a wheat field during the growing season can be determined from the radiational balance and its components, namely, the heat expended in warming the soil plants and air and in evaporation. The determination of evaporation from a wheat field is discussed. From northwest to southeast of the European U.S.S.R., the radiation balance during the day increases, evaporation diminishes, height of spring wheat decreases and quantity of heat expended in warming the soil decreases. The northern limit of wheat is determined by the lack of sufficient heat for the transpiration needs of the plant. Limitation can be overcome by adjusting the transpiration of plant to available heat resources. Several methods of reducing transpiration are discussed. *Subject Headings:* Energy exchange, Agricultural climatology, U.S.S.R.—*I. L.D.*

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

SAPOZHNIKOVA, S.A.

Climatology

Founder of Russian climatology A.I. Voyeykov. Met. i gidrol. No. 5, 1949.

Monthly List of Russian Accessions, Library of Congress, October, 1952. UNCLASSIFIED.

SAPOZHNIKOVA, S.A.

Climate of Kandar Gorge. Uch.zap.Len.un. no.124:116-158 '49
(Kandar Gorge--Climate) (MLRA 9:6)

SAPOZHNIKOVA, S. A.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 256 - I

Call No.: QC981.S33

BOOK
Author: SAPOZHNIKOVA, S. A., Doctor of Geographical Sciences
Full Title: MICROCLIMATE AND LOCAL CLIMATE
Transliterated Title: Mikroklimat i mestnyy klimat

Publishing Data
Originating Agency: None
Publishing House: Hydrometeorological Publishing House
Date: 1950 No. pp.: 241 No. of copies: 8,000
Editorial Staff
Editor: None Tech. Ed.: None
Editor-in-Chief: None Appraiser: None

Text Data
Coverage: The book gives a systematic exposition of current knowledge on microclimate and local climate, treating the basic physical principles, the vertical stratification of temperature, microclimate of the soil, and defense against the harmful phenemona in the surface layer of the atmosphere and in the soil. Methods of investigation include: observation of herbaceous plants, photoelectric recording thermometers, phyloindicators, and large-scale maps constructed from short observation series. The point of view throughout is that

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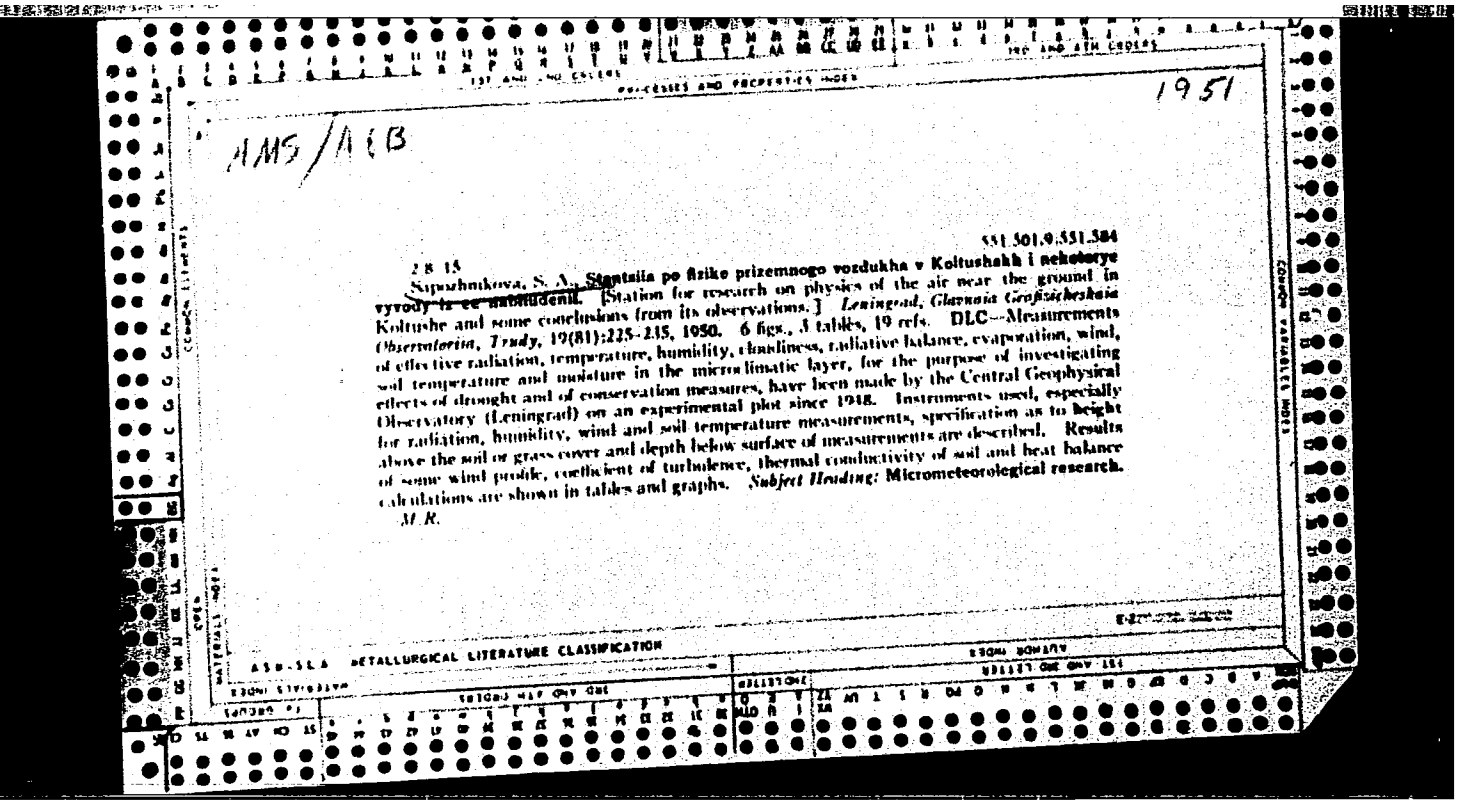


1951

HMS/AEB

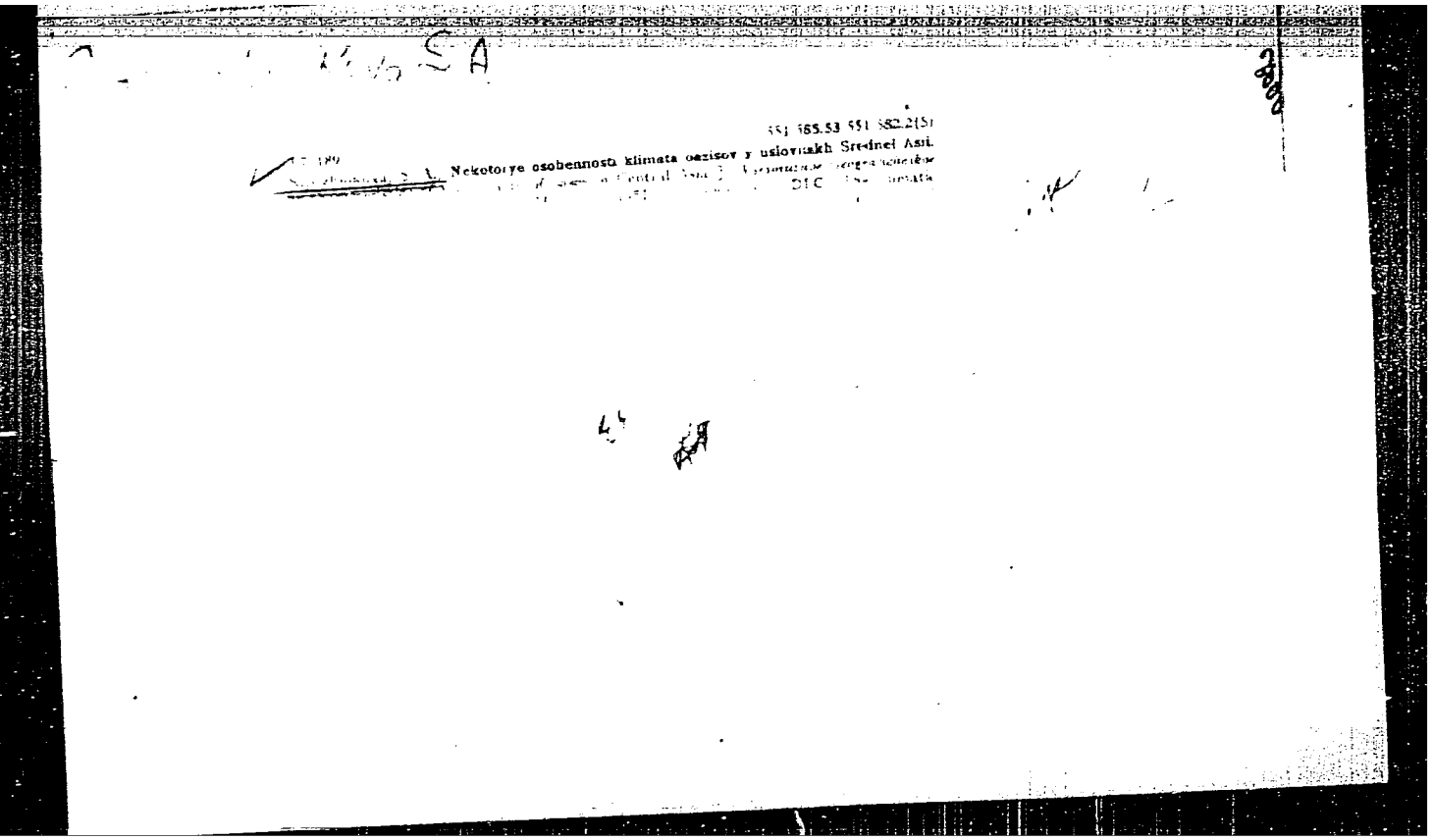
551.501.9:551.584

28 15

Sapozhnikova, S. A. **Stantsiia po fizike prizemnogo vozdukha v Koltushakh i nekotorye vyvody iz ee nabliudenii.** [Station for research on physics of the air near the ground in Koltushe and some conclusions from its observations.] *Leningrad, Glavnaia Geofizicheskaia Observatoriia, Trudy*, 19(81):225-235, 1950. 6 figs., 3 tables, 19 refs. DLC—Measurements of effective radiation, temperature, humidity, cloudiness, radiative balance, evaporation, wind, soil temperature and moisture in the microclimatic layer, for the purpose of investigating effects of drought and of conservation measures, have been made by the Central Geophysical Observatory (Leningrad) on an experimental plot since 1948. Instruments used, especially for radiation, humidity, wind and soil temperature measurements, specification as to height above the soil or grass cover and depth below surface of measurements are described. Results of some wind profile, coefficient of turbulence, thermal conductivity of soil and heat balance calculations are shown in tables and graphs. *Subject Heading:* Micrometeorological research.

M.R.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



55] 655.53 551.582.2(5)

Nekotorye osobennosti klimata oazisov v usloviiakh Srednei Azii.

DEC

SAPOZHNIKOVA, S. A.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 624 - I

Call No.: AF 501068

BOOK

Authors: Doctors of Physico-Mathematical Sciences BUDYKO, M. I. and Prof. YUDIN, M.I., Doctors of Geographical Sciences, Profs. DRIZDOV, O. A., L'VOVICH, M. I., POGOSYAN, Kh. P., and SAPOZHNIKOVA, S. A.

Full Title: CLIMATIC CHANGES IN CONNECTION WITH THE PROJECT FOR THE TRANSFORMATION OF NATURE IN THE ARID REGIONS OF THE USSR

Transliterated Title: Izmeneniye klimata v svyazi s planom preobrazovaniya prirody zasushlivykh rayonov SSSR

PUBLISHING DATA

Originating Agency: None

Publishing House: Hydrometeorological Publishing House

Date: 1952 No. pp.: 206 No. of copies: 3,000

Editorial Staff

Editor: Prof. Dr., Kh. P. Pogosyan

PURPOSE: Presentation in concise systematic form of the results of fundamental studies of climate amelioration by hydrometeorological institutes and the recommendations to be followed by those interested in climate transformation.

TEXT DATA

Coverage: The monograph is divided into seven chapters and a concluding chapter, the chapters being subdivided into several sections.

BUDYKO, M.I.; DROZDOV, O.A.; L'VOVICH, M.I.; POGOSYAN, Kh.P.; SAPOZHNIKOVA, S.A.; YUDIN, M.I.

Regularities of climatic changes with respect to the realization of the Stalin plan of transformation of nature. Vop.geog. 28:66-73 '52. (MLRA 7:5)

1. Gidrometsluzhba. (Meteorology, Agricultural) (Windbreaks, shelterbelts, etc.)

AVAKYAN, A.B.; BUDYKO, M.I.; YUDIN, M.I.; OCHAKOVSKIY, Yu.Ye.; DAVYDOV, M.M.; ARMAND, D.L.; FEDOROVICH, B.A.; ZUBOV, N.N.; ANTIPOR-KARATAYEV, I.N.; SAPOZHNIKOVA, S.A.; ALISOV, B.P.; FOTEYEV, I.M.

Discussion of reports of the meeting. Vop.geog. 28:74-96 '52. (MLRA 7:5)

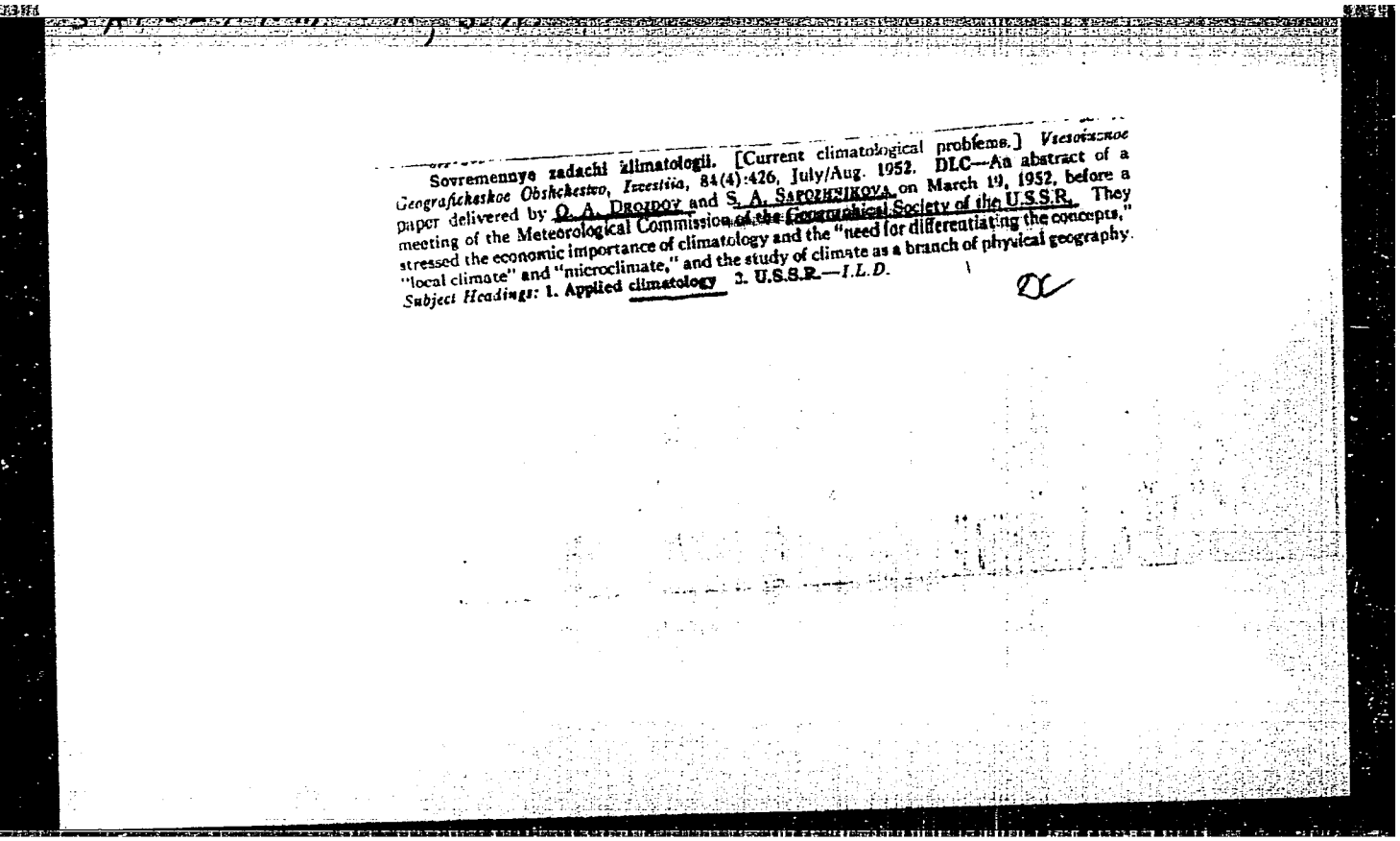
1. Gidroenergoproyekt Ministerstva elektrostantsiy (for Avakyan). 2. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for Budyko and Yudin). 3. Institut okeanologii Akademii nauk SSSR (for Ochakovskiy). 4. Gidroenergoproyekt Ministerstva elektrostantsiy (for Davydov). 5. Institut geografii Akademii nauk SSSR (for Armand, Fedorovich, and Foteyev). 6. Geograficheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta (for Zubov and Alisov). 7. Pochvennyy institut im. V.V. Dokuchayeva Akademii nauk SSSR (for Antipov-Karatayev, I.N.). 8. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for Saposhnikova).

САРОЖНИКОВА, С.А.

SAPOZHNIKOVA, S.A.

Spacing forest belts for protecting fields from damaging winds in the arid regions of European Russia. Trudy GGO no.36:21-26 '52. (MIRA 11:1)

(Russia, Southern--Afforestation)



Sovremennye zadachi klimatologii. [Current climatological problems.] *Vsesoiuznoe Geograficheskoe Obshchestvo, Izvestiia*, 84(4):426, July/Aug. 1952. DLC—An abstract of a paper delivered by O. A. Drozdov and S. A. Sapozhnikova on March 19, 1952, before a meeting of the Meteorological Commission of the Geographical Society of the U.S.S.R. They stressed the economic importance of climatology and the "need for differentiating the concepts," "local climate" and "microclimate," and the study of climate as a branch of physical geography.
Subject Headings: 1. Applied climatology 2. U.S.S.R.—*I.L.D.*

SAPOZHNIKOVA, S.

SAPOZHNIKOVA, S.

Mikroklimat i klimat lokalny. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1953. 221 p. (Microclimate and local climate. Tr. from the Russian) DA
Not in DLC Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

SAPOZHNIKOVA, S.A.

5.6-242 551.58.02

Sapozhnikova, S. A. and Grigor'eva, A. G., Trudy osnovopolozhnika sovremennoi klimatologii. [Works of the originator of modern climatology.] *Priroda*, Moscow, No. 6:117-120, June 1953. DLC—This is a review of the newly completed edition in 3 volumes of VOEIKOV's selected works published by the Institute of Geography of the Academy of Sciences. After giving a brief summary on the life and scientific activity of the founder of modern climatology the reviewers list and comment on the contents of each volume. They include, besides his monograph "Climates of the world," 2 papers on the influence of snow cover on climate, one paper on atmospheric circulation and 39 articles on the main topics: genesis of weather and climate; changes of climatic conditions in the geological past and water regime and climate. Two articles by PROF. RIKHTER, "A. I. VOEIKOV's works," a complete bibliography and "Life and activity of Voeikov" as well as PROF. GRIGOR'EV's "Voeikov's guiding climatological ideas" complete the edition. *Subject Headings*: 1. Climatology 2. Biography 3. Reviews 4. Voeikov, Alexandr Ivanovich.—*A.M.P.*

SAPOZHNIKOVA, S.A.

GRIGOR'YEVA, A.G.; SAPOZHNIKOVA, S.A., doktor geograficheskikh nauk, otvetstvennyy redaktor; YASNOGORODSKAYA, M.M., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor

[A.V.Voznesenskii, climatologist and geographer] A.V.Voznesenskii - klimatolog, geograf. Leningrad, Gidrometeor.izd-vo, 1954 43 p. (MLRA 10:9)

(Voznesenskii, Arkadii Viktorovich, 1864-)

SAPOZHNIKOVA, S.A.

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P.; BUCHINSKIY, I.Ye.; SEYANINOV, G.T., professor; BOSHNO, L.V.; ALISOV, B.P.; BIRYUKOV, N.N.; GAL'TSOV, A.P.; GRIGOR'YEV, A.A., akademik; EYGENSON, M.S., professor; MURETOV, N.S.; KHROMOV, S.P.; BOGDANOV, P.N.; LEBEDEV, A.N.; SOKOLOV, V.N.; YANISHEVSKIY, Yu.D.; SAMOYLENKO, V.S.; USMANOV, R.F.; CHUBUKOV, L.A.; TROTSENKO, S.Ya.; VANGENGEYM, G.Ya.; SOKOLOV, I.F.; STYRO, B.I.; TEMNIKOVA, N.S.; ISAYEV, E.A.; DMITRIYEV, A.A.; MALYUGIN, Ye.A.; LIEDEMAA, Ye.K.; SAPOZHNIKOVA, S.A.; RAKIPOVA, L.R.; POKROVSKAYA, T.V.; BAGDASARYAN, A.B.; ORLOVA, V.V.; RUBINSHTEYN, Ye.S., professor; MIL'EVSKIY, V.Yu.; SHCHERBAKOVA, Ye.Ya.; BOCHKOV, A.P.; ANAPOL'SKAYA, I.Ye.; DUNAYEVA, A.V.; UTESHEV, A.S.; RUDNEVA, A.V.; RUDENKO, A.I.; ZOLOTAREV, M.A.; NERSESYAN, A.G.; MIKHAYLOV, A.N.; GAVRILOV, V.A.; TSOMAYA, T.I.; DEVYATKOVA, A.M.; ZAVARINA, M.V.; SHMETER, S.M.; BUDYKO, M.I., professor.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor.GUGMS no.3/4:26-154 '54. (MLRA 8:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Fedorov). 2. Glavnaya geofizicheskaya observatoriya im. A.I.Voeykova (for Predtechenskiy, Lebedev, Yanishevskiy, Isayev, Rakipova, Pokrovskaya, Orlova, Rubinshteyn, Budyko, Shcherbakova, Anapol'skaya, Dunayeva, Rudneva, Gavrilov, Zavarina). 3. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Buchinskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor. GUGMS no.3/4:26-154 '54. (Card 2) (MIRA 8:3)

4. Vsesoyuznyy institut rastenievodstva (for Selyaninov, Rudenko). 5. Bioklimaticheskaya stantsiya Kislovodsk (for Boshno). 6. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova (for Alisov). 7. Ministerstvo putey soobshcheniya SSSR (for Biryukov). 8. Institut geografii Akademii nauk SSSR (for Gal'tsov, Grigor'yev). 9. Geofizicheskaya komissiya Vsesoyuznogo geograficheskogo obshchestva (for Eygenson). 10. Ministerstvo elektrostantsiy i elektropromyshlennosti SSSR (for Muretov). 11. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Khromov). 12. TSentral'nyy nauchno-issledovatel'skiy gidrometeorologicheskiy arkhiv (for Sokolov, Zolotarev). 13. Gosudarstvennyy okeanograficheskiy institut (for Samoylenko). 14. TSentral'nyy institut prognozov (for Usmanov, Sapozhnikova). 15. Institut geografii Akademii nauk SSSR i TSentral'nyy institut kurortologii (for Chubukov). 16. Nauchno-issledovatel'skiy institut imeni Sechenova, Yalta (for Trotsenko). 17. Arkticheskiy nauchno-issledovatel'skiy institut (for Vangengeym).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state of climatological research and methods of developing it]. Inform.sbor. GUGMS no.3/4:26-154 '54. (Card 3) (MLRA 8:3)

18. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Sokolov). 19. Institut geologii i geografii Akademii nauk Litovskoy SSR (for Styro). 20. Rostovskoe upravlenie gidrometsluzhby (for Temnikova). 21. Morskoy gidrofizicheskiy Institut Akademii nauk SSSR (for Dmitriyev). 22. Vsesoyuznyy institut rasteniyevodstva (for Malyugin). 23. Akademiya nauk Estonskoy SSR (for Liedemaa). 24. Akademiya nauk Armyanskoy SSR (for Bagdasaryan). 25. Leningradskiy gidrometeorologicheskiy institut (for Milevskiy).

(Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform.sbor. GUGMS no.3/4:26-154 '54. (Card 4) (MLRA 8:3)

26. Gosudarstvennyy gidrologicheskiy institut (for Bochkov). 27. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Uteshev). 28. Upravlenie gidrometsluzhby Armyanskoy SSR (for Nersesyan). 29. Leningradskoye upravleniye gidrometsluzhby (for Mikhaylov, Devyatkova). 30. Tbilisskiy gosudarstvennyy universitet (for Tsomaya). 31. TSentral'naya aerologicheskaya observatoriya (for Shmeter).
(Climatology)

USSR/Meteorology - Weather service

Card 1/1 : Pub. 86 - 6/38

Authors : Sapozhnikova, S. A., Prof., and Nekhotyayeva, O. V.

Title : Hydrometeorological service of socialistic agricultural economy

Periodical : Priroda 43/12, 51-56, Dec 1954

Abstract : A description is given of the meteorological exhibit at the Agricultural Fair at Moscow, which comprises weather, climate and flora maps and a display of instruments including one for measuring the moisture in the soil, in addition to displays from the various weather and climate research institutes throughout the Union. Illustrations.

Institution : .....

Submitted : .....

SAPOZHNIKOVA, S. A.

"The Microclimate of Irrigated Fields (Air Temperature and Humidity, Soil Temperature)
Trudy Glav. geofiz. observatorii, No 45, pp 60-70, 1954.

Under discussion are two types of irrigation: repeated irrigations ensuring intense transpiration of vegetation (agrometeorological stations Iolotan', Yershov, Boz-su; expedition of the Central Institute of Forecasting and of the Main Geophysical Observatory in Pakhta-Aral and Kamennaya Step'), and single of double irrigations partially increasing the transpiration (Kherson, Tiraspol'). The microclimate of irrigated cotton was most completely clarified. The deficit of humidity at a height of 1.5 meters is considered as an indicator of the conditions governing the formation of the microclimate. In the daytime under conditions of optimum irrigation for the case of close intense transpiring sod the differences in temperature and humidity of the ground air layer over irrigated and nonirrigated fields increase with moisture deficit at a height of 1.5 meters. With increase of moisture deficit in nonirrigated regions the temperatureof the ground layer of air sharply lowers and the humidity within the sod increases.

In the middle of the vegetation period (August) the differences in temperatures and their dependence upon moisture deficit reach a maximum.

In the vertical temperature distribution in August an inversion is observed every day in cotton fields. In earlier and later months the percentage of daily inversions is decreased. In the daytime course of the temperature difference of irrigated and nonirrigated fields a maximum is reached in the morning and evening, which is explained by the weakening of the exchange. The indicated course of the difference increases with height. Absence of development of sod even for partial irrigations sharply decreases the difference in temperature and humidity of irrigated and nonirrigated fields. Irrigation essentially lowers the soil temperature because of the high expenditure of heat in evaporation and shading of soil by plants. (RZhGeol, No 8, 1955)

SO: Sum NO 884, 9 Apr 1956

ZHURAVLEVA, P.A.; SAPOZHNIKOVA, S.A., doktor geograficheskikh nauk, redaktor; ORLOVA, V.P., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor.

["Hydrometeorology" pavilion; guidebook] Pavil'on Gidrometsluzhba; putevoditel'. Moskva, Gos.izd-vo sel'skokhoz.litpry, 1955. 32 p. (MLRA 8:8)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystvaka, 1954. (Moscow--Meteorology--Exhibitions)

SAPOZHNIKOVA, S.A.

Method of calculating the probability (predictability) of mean ten-day-period temperatures. Trudy TSIP no.41:87-94 '55. (MLRA 9:1)

(Atmospheric temperature)(Weather forecasting)

SAPOZHNIKOVA, S.A.

[redacted]

Sapozhnikova, S.A.

USSR/Cultivable Plants - General Problems.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10657

Author : Sapozhnikova, S.A.
Inst : [redacted]
Title : Problems Connected with the Division of the Territory of the USSR into Agricultural-Climatic Areas.

Orig Pub : A.I. Voyeykov i sovrem. probl. klimatol., Leningrad, Gidrometeoizdat, 1956, 268-275.

Abstract : A review of the research conducted by Russian scientists

SAPOZHNIKOVA, S.A.; MEL', M.I.; SMIRNOVA, V.A.

Agricultural and climatic conditions for the cultivation of corn in the U.S.S.R. Trudy NIIAK no.2:5-77 '57. (MIRA 11:9)
(Crops and climate) (Corn (Maize))

SAPOZHNIKOVA, S.A.; MEL', M.I.; SMIRNOVA, V.A.; NIKIFONOVA, A.T.

Evaluating the climatic and agricultural resources of the U.S.S.R.
Trudy NIIAK no.2:78-115 '57. (MIRA 11:9)
(Crops and climate)

SAPOZHNIKOVA, S.A.

3(7) PHASE I BOOK EXPLOITATION SOV/1880

Leningrad. Glavnaya geofizicheskaya observatoriya

Mikroklimat severnoy chasti Kazakhskogo melkosopochnika (Microclimate of the Northern Part of the Kazakh Hummocky Region) Leningrad, Gidrometeoizdat, 1958. 207 p. Errata slip inserted. 800 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): I.A. Kolichkin, Doctor of Geographical Sciences; Ed. (Inside book): V.D. Pisarevskaya; Tech. Ed.: K.V. Volkov.

PURPOSE: This book is intended for meteorologists, agronomists, workers on collective farms, and the interested layman.

COVERAGE: This book provides a climatic description of the Kazakh Melkosopochnik (hummocky region). It lists the results of studies made on the microclimate of the region. Individual chapters deal with the physical phenomena underlying and shaping the microclimatic features, and the effect the latter have upon the region's agriculture. The work was prepared by members of the OOO and the Kazakhskiy. A map on the recurrence of drought was drawn up by Doctor of Agricultural Sciences A.M. Alpat'yev and scientific worker A.I. Trofimova of the Vsesoyuznyy institut rastenivodstva. Ye.I. Dumetsova worked on data dealing with the temperature of the active slopes of Li Pchil' Sh and the changes in prevailing air currents brought about under the influence of relief. The chart showing the amount of precipitation during the warm period of the year was drawn up by L.P. Kuznetsova under the direction of Doctor of Geographical Sciences O.A. Drozdov (OOO). There are 89 references of which 81 are Soviet, 6 German, 1 French, and 1 English.

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SAPOZHNIKOVA, S.A.

3(7) PHASE I BOOK EXPLOITATION SOV/2384

Konferentsiya po agrometeorologii i agroklimatologii Ukrainskoy SSR

Materialy konferentsii (Material of the Conference on Agricultural Meteorology and Climatology of the Ukrainian SSR) Leningrad, Gidrometeoizdat, 1958. 247 p. Errata slip inserted. 700 copies printed.

Sponsoring Agencies: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby, Ukrainian SSR. Ministerstvo sel'skogo khozyaystva, Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut, and Ukrainskaya akademiya sel'skokhozyaystvennykh nauk.

Resp. Ed.: G.P. Prikhot'ko; Ed.: V.D. Pisarevskaya; Tech. Ed.: M.I. Braynina.

PURPOSE: This book is intended for agriculturists, agrometeorologists, and instructors in related vuzes.

COVERAGE: This collection of articles deals with problems in agricultural meteorology in the Ukraine. Among the topics discussed are: wintering, planting time for winter crops, corn cultivation, potato degeneration, moisture supply, and adverse weather factors. References accompany individual articles.

Material of the Conference (Cont.) SOV/2384

/3

YEVSEYEV, P.K.; SAPOZHNIKOVA, S.A.

Climatic characteristics of interface development of spring wheat.
Trudy NIIAK no.4:5-29 '58. (MIRA 11:9)
(Wheat) (Crops and climate)

SAPOZHNIKOVA, S.A., TERENT'YEVA, T.M.

Accuracy of complex climatic characteristics and increase of accuracy by using data from periods of different duration. Trudy NIIAK no.4: 30-45 '58. (MIRA 11:9)
(Climatology)

SAPOZHNIKOVA, S.A.

Division of the Ukraine into regions based on agricultural and climatological conditions. Trudy UkrNIGMI no.14:3-9 '58. (MIRA 12:5)

(Ukraine--Crops and climate)

3(7)

AUTHORS: Sapozhnikov, A. A., Sapozhnikova, S. A. SOV/50-59-7-19/20

TITLE: On the Activity of the Working Group of the World Meteorological Organization of Microclimatology (O deyatel'-nosti rabochey gruppy VMO po mikroklimatologii)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 7, pp 58 - 59 (USSR)

ABSTRACT: This is a short report on the activity of the working group of microclimatology. It was established in January 1957. The USSR is represented in this group by Professor S.A.Sapozhnikova.

Card 1/1

BUCHINSKIY, I.Ye.; IOVENKO, N.G.; KEKUKH, A.M.; SAPOZHNIKOVA, S.A.

Agroclimatic features of the Ukrainian forest steppe and the effectiveness of fallows in the rotation of crops. Trudy UkrNIGMI no.16:3-15 '59. (MIRA 13:6)
(Ukraine--Fallowing)

SAPOZHNIKOVA, S.A.

Some characteristics of agroclimatic zones of the Ukraine. Trudy UkrNIGMI no.16:16-22 '59. (MIRA 13:6)
(Ukraine--Soils and climate)

SAPOZHNIKOVA, S.A.

Climatological estimation of crop yields. Trudy UkrNIGMI no.16: 69-86 '59. (MIRA 13:6)
(Ukraine--Crops and climate)

SAPOZHNIKOVA, S. A.

"Methods For Agroclimate Division of Territories"

report to be submitted for the Intl. Geographical Union, 10th General Assembly and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

Zaprometova, S.A.

PHASE I BOOK EXPLOITATION SOV/5729

Leningrad. Glavnaya geofizicheskaya observatoriya.

Voprosy prikladnoy klimatologii; sbornik statey (Problems in Applied Climatology; Collection of Articles) Leningrad, Gidrometeoizdat, 1960. 159 p. Errata slip inserted. 1,050 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR. Glavnaya geofizicheskaya observatoriya im. A. I. Voyeykova.

Ed. (Title page): F. F. Davitay, Doctor of Agricultural Sciences; Ed.: L. P. Zhdanova; Tech. Ed.: N. V. Volkov.

PURPOSE : This publication is intended for applied climatologists and planners in climate-dependent industries.

COVERAGE: This collection of 18 articles contains reports originally presented at the Conference on Applied Climatology in Leningrad in October 1958. The purpose of the conference was to summarize the results of research done in the field of applied

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climatology and to point the way for further investigations. Individual articles deal with general problems in applied climatology and special problems in engineering and industrial climatology, medical and health resort climatology, climatic energy resources, and marine climatology. No personalities are mentioned. References follow individual articles.

TABLE OF CONTENTS:

PROBLEMS IN MEDICAL AND HEALTH RESORT CLIMATOLOGY

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JA/dwm/jw
11-13-61

SAPOZHNIKOVA, S.A.

"Methods of agrometeorological forecasting" by E.S.Ulanova. Reviewed by S.A.Sapozhnikova. Meteor. i gidrol. no.3:53-56 Mr '61. (MIRA 14:2)

(Meteorology, Agricultural) (Ulanova, E.S.)

SAPOZHNIKOVA, S.A.

Increasing the accuracy of general climatic characteristics obtained on the basis of short-series observations. Trudy NIIAK no.12:16-22 '61. (MIRA 14:10)

(Climatology)

SAPOZHNIKOVA, S.A.; Prinimali uchastiye: PERSHINA, R.A., mladshiy nauchnyy sotrudnik; BUYANOVA, N.I., starshiy inzhener-proyektirovshchik; ALESHINA, T.P., tekhnik; FADEYEVA, L.V., tekhnik

Calculating the frequency of minimum temperatures in the European part of the U.S.S.R. Trudy NIIAK no.12:93-134 '61. (MIRA 14:10)
(Atmospheric temperature)

SAPOZHNIKOVA, S.A.

Calculation of minimum temperature recurrences in individual years. Trudy NIIAK no.18:5-17 '62. (MIRA 16:8)

SAPOZHNIKOVA, S.A.; FADEYEVA, L.V.

Approximate calculation of the number of hours with a temperature $\leq -50^{\circ}$. Trudy NIIAK no.18:29-36 '62. (MIRA 16:8)

KEKUKH, A.M.; SAPOZHNIKOVA, S.A.

Agroclimatic foundation of the distribution of stubble crops in the Ukraine. Trudy UkrNIGMI no.28:55-71 '62. (MIRA 15:8)
(Ukraine--Field crops) (Ukraine--Crops and climate)

SAPOZHNIKOVA, S.A.

Climatic norms. Meteor.i gidrol. no.2:47-52 F '63. (MIRA 16:2)
(Climatology—Charts, diagrams, etc.)

SAPOZHNIKOVA, S.A.

Evaluation of the climatic conditions of the agricultural territories of the U.S.S.R. Izv. AN SSSR. Ser. geog. no.4:123-124 Jl-Ag '62. (MIRA 16:5)

(Crops and climate—Congresses)

SAPOZHNIKOVA, S.A.

Thermal conditions of the cold season of the year. Trudy NIIAK no.18:37-42 '62. (MIRA 16:8)

SAPOZHNIKOVA, S.A.; NIKIFOROVA, A.T.

Some characteristics of the frequency of a dew point deficit by gradation of air temperature in the winter. Trudy NIIAK no.18:43-49 '62. (MIRA 16:8)

ACCESSION NR: AT4026423 S/2667/63/000/011/0024/0034

AUTHOR: Sapozhnikova, S. A.

TITLE: Methods for approximate computation of the number of days and hours with a high air temperature

SOURCE: Moscow. Nauchno-issledovatel'skiy institut aeroklimatologii. Trudy*, no. 11, 1963. Klimatologiya i aviaklimatologiya (Climatology and aviation climatology), 24-34

TOPIC TAGS: meteorology, temperature extreme, air temperature

ABSTRACT: An air temperature above 40C is considered an extreme meriting special study. The number of days with such air temperatures in the SSSR can be determined directly from data for a relatively large number of stations; for others in the SSSR they can be computed quite accurately from standard probability curves. The methods proposed are for use in foreign areas. Systematic data for foreign areas are said to be available for only six indices for each of the months: three on maximum temperature (mean maximum, mean absolute maxima and absolute maximum) and three on minimum temperature (mean mimimum, mean absolute minima and absolute minimum). These are the data used as the basis for the computation method described (source: Tables of temperature, relative humidity and precipitation for the

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ACCESSION NR: AT4026423

world, Meteorol. office, London, 1958). The method for approximate computation of the number of days with a temperature above 40C is described, including the necessary formulas and a nomogram which has been constructed for facilitating these computations; this is followed by description of the method for computing the number of hours with a temperature above 40C, accompanied by the appropriate formulas and a similar nomogram. The difficulties in applying the method are analyzed and the sources of error discussed. The method has been checked by comparison with actually observed temperature extremes and found to be satisfactory. The method obviously can be modified for estimating other temperature extremes by use of basic data available in standard meteorological handbooks. Orig. art. has: 3 tables, 4 figures and 4 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut aeroklimatologii, Moscow (Scientific Research Institute of Aeroclimatology)

SUBMITTED: 00 DATE ACQ: 16Apr64 ENCL: 00

SUB CODE: AS NO REF SOV: 005 OTHER: 004

Card 2/2

SAPOZHNIKOVA, S.A., doktor geogr. nauk

Methods for the approximate calculation of the number of days and hours having high air temperature. Trudy NIIAK no.11: 24-34 '63 (MIRA 17:8)

SAPOZHNIKOVA, S.A., doktor geogr. nauk, prof., red.; GUK, N.I., nauchn. sotr., red.; KEKUKH, A.M., nauchn. sotr., red.; KAGANER, M.S., nauchn. sotr., red.; PRIKHOT'KO, G.F., nauchn. sotr., red.; CHERNOV, N.P., red.

[Atlas of agricultural climatology of the Ukrainian S.S.R.] Agroklimaticheskii atlas Ukrainskoi SSR. Kiev, Urozhai, 1964. 36 p. (MIRA 18:7)

1. Kiev. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. 2. Direktor Ukrainskogo nauchno-issledovatel'skogo gidrometeorologicheskogo instituta, Kiev (for Prikhot'ko). 3. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut, Kiev (for Guk, Kekukh, Kaganer).

SAPOZHNIKOVA, S.A.

Methodology of the characteristics of climate of the U.S.S.R.
Trudy NIIAK no.26:29-43 '64. (MIRA 18:4)

SAPOZHNIKOVA, S.A., doktor geogr. nauk, prof., red.; CHERNOV, N.P., red.

[Agroclimatic atlas of the Ukrainian S.S.R.] Agroklimaticheskii atlas Ukrainskoi SSR. Kiev, Urozhai, 1964. 7 p. 36 maps. (MIRA 18:1)

L 26617-65 EWT(1)/FCC GW

ACCESSION NR: AT5001403 S/2667/64/000/026/0029/0043

AUTHOR: Sapozhnikova, S. A. (Doctor of geographical sciences) 9 6 B+1

TITLE: Methods of characterizing the climate of the SSSR

SOURCE: Moscow. Nauchno-issledovatel'skiy institut aeroklimatologii. Trudy, no. 26, 1964. Klimatologiya (Climatology), 29-43

TOPIC TAGS: climatology, absolute minimum temperature, temperature recurrence, air temperature, weather forecasting

ABSTRACT: The author discusses statistical methods of generalizing climatic data for forecasting purposes. In particular, she discusses methods of calculating the absolute possible minimum air temperature occurring once every 5, 10, 25, 50, and 100 years; the probability of the occurrence of mean monthly temperatures over periods of 5, 10, and 25 years; and the amplitude of the diurnal variation of temperature. The delineation of these variations by types makes it possible to predict, by interpolation, temperature phenomena where observatational data are not available. A serious source of random errors noted was the lack of a clear-cut connection between the absolute minimum and the absolute annual minimum temperatures. When the recurrence of annual absolute temperature minima was plotted on normal-

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L 26617-65

ACCESSION NR: AT5001403

distribution grids and on grids showing a double exponential law of distribution, it was found that the results obtained by the two methods differ significantly. The differences are random, both overstating the absolute minimum for some regions and understating it for others. The use of ten-year moving averages permitted better estimates. Appendices 1 and 2 of the article present 1) the absolute annual minima of different recurrences in individual regions expressed in deviations from the means of the absolute annual minima, and 2) a comparison of calculated and actual absolute minima of air temperatures in individual regions. Orig. art. has: 5 figures and 7 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut aeroklimatologii, Moscow (Scientific Research Institute of Aeroclimatology)

SUBMITTED: 00	ENCL: 00	SUB CODE: ES
NO REF SOV: 013	OTHER: 001	ATD PRESS: 3188

Card 2/2

SAPOZHNIKOVA, S.A.

Characteristics of the thermal regime of the Gornyy Altai.
Trudy NIIAK no.33:97-123 '65. (MIRA 18:12)

SAPOZHNIKOVA, S.A.; Prinimali uchastiye: PERSHINA, R.A.; FADEYEVA, L.V.

Experience in using IGY data for applied climatolcgy of the globe.
Meteor. issl. no.9:137-142 '65. (MIRA 19:1)

BURKSER, Ye.S. [Burkser, IE.S.], otv.red.; RUBENCHIK, L.I., red.; SAPOZHNIKOVA, S.I., doktor geograf.nauk, red.; CHEKHOVICH, N.Ya., red.; LISOVETS, L.O. [Lysovets', L.O.], tekhn.red.

[The use of natural curative resources in the Ukraine; mineral waters, therapeutic mud, climate] Vykorystannia pryrodnykh likuval'nykh resursiv Ukrainy; mineral'ni vody, likuval'ni griazi, klimat. Kyiv, Vyd-vo Akad.nauk URSR, 1959. 231 p. (MIRA 13:8)

1. Akademiia nauk URSR, Kiyev. Rada po vyvchenniu produktyvnykh syl URSR. 2. Chleny-korrespondenty AN USSR (for Burkser, Rubenchik).
(UKRAINE--HEALTH RESORTS, WATERING PLACES, ETC.)

KEKUKH, A.M [Kekukh, O.M.], kand.biolog.nauk; SAPOZHNIKOVA, S.O., doktor geograf.nauk

Agroclimatic basis for the distribution of stubble crop cultivation in the Ukraine. Visnyk sil'hosp.nauky 4 no.8:29-36 Ag '61. (MIRA 14:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut gidrometeorologii.
(Ukraine--Field crops)

SAPOZHNIKOVA, S.V.

Hygienic evaluation of the new rural houses for the southern districts. Uch. zap. Mosk. nauch.-issl. inst. san. i gig. no.6: 85-86 '60. (MIRA 14:11)

(HOUSING, RURAL—HYGIENIC ASPECTS)

SAPOZHNIKOVA, T.V.

Akademiya nauk SSSR. Ural'skiy filial. Institut metallurgii

Trudy, Vyp. 4 (Transactions of the Institute of Metallurgy, Ural Branch, Academy of Sciences, USSR; No. 4) Sverdlovsk, 1958. 157 p. Errata slip inserted. 1,000 copies printed.

Editorial Board: N.A. Vatolin (Resp. Ed.), Candidate of Technical Sciences; A.S. Mikulinskiy, Professor, Doctor; V.Ya. Miller, Professor; P.A. Pazdnikov, Candidate of Technical Sciences; and S.S. Lisnyak, Candidate of Technical Sciences; Ed.: N.S. Baranovskaya.

PURPOSE: This book is intended for ferrous and nonferrous metallurgists.

COVERAGE: The book presents results of investigations of theoretical problems in metallurgy and chemistry and gives information on the efficient use of raw materials in ferrous and nonferrous metallurgy and on the development of new production processes in the metallurgical and chemical industries. The articles were written by junior members and experienced specialists of the scientific staff of the Institutes of Metallurgy, Chemistry, and Electrochemistry, Ural Branch, Academy of Sciences, USSR.

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MIKHAYLOV, V.V.; SHAVRIN, S.V.; CHENTSOV, A.V.; KUSAKIN, P.S.; SAPOZHNIKOVA, T.V.; OSINOVSKIKH, L.L.

Continuous process of separating titanium slags from iron-titanium concentrates. Trudy Inst. met. UFAN SSSR no.2:47-54 '58. (MIRA 12:4)

(Titanium ores) (Ore dressing)

SHAVRIN, S.V.; SAPOZHNIKOVA, T.V. ; LEPINSKIKH, B.M.

Electric resistance and phase constitution of briquetted ilmenite in the process of reduction roasting. Trudy Inst. met. UFAN SSSR no.4:15-18 '58. (MIRA 12:10)
(Ilmenite) (Phase rule and equilibrium)
(Ore dressing)

SHAVRIN, S.V.; SAPOZHNIKOVA, T.V.; LEPINSKIKH, B.M.

Electric resistance and phase constitution of briquetted ilmenite in the process of reduction roasting. Titan i ego splavy no.4:28-31 '60. (MIRA 13:11)
(Ilmenite--Electric properties) (Ore dressing)

CHUFAROV, G.I.; LEONT'YEV, L.I.; SAPOZHNIKOVA, T.V.; BOGOSLOVSKIY, V.N.

Phase transitions during monocalcium ferrite reduction. Zhur. neorg. khim. 10 no.2:543-545 F '65. (MIRA 18:11)

1. Submitted July 6, 1964.

L 7811-66 EWT(1)/T/FCS(k) WR
ACC NR: AP5027619 SOURCE CODE: UR/0109/65/010/011/1967/1976

AUTHOR: Krupitskiy, E. I.; Sapozhnikova, T. N.
44 44

ORG: none

34
B

TITLE: Minimum number of controllable elements in a long linear array with wide electrical beam sweep
25B, 44

SOURCE: Radiotekhnika i elektronika, v. 10, no. 11, 1965, 1967-1976

TOPIC TAGS: radar, radar antenna

ABSTRACT: A theoretical solution is reported for the case of a linear array consisting of nondirectional radiators (point sources) uniformly deployed along a straight line and a wide sector of the beam sweep. With an allowance for a specified level of minor lobes, an approximate formula is developed for the minimum number N of controllable elements required. For a sweep sector $\theta \leq 50-60^{\circ}$ or under, a simplified formula is deduced which permits calculating

Card 1/2 UDC: 621.396.673.4
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N from specified values of $\Delta\theta$, R, and θ. The solution also holds true for practically important short arrays if $d/\lambda \geq 0.5$ (see C. L. Dolph, Proc. IRE, 1946, 34, 6, 335); the solution is inapplicable, however, for narrow sweep sectors where pencil-beam elements may be used. Orig. art. has: 7 figures and 27 formulas.

SUB CODE: 17, 09 / SUBM DATE: 24Jul64 / ORIG REF: 007 / OTH REF: 001

SYROMYATNIKOVA, M.D.; SAPOZHNIKOVA, V.A.; GOL'DBERG, R.M.; CHAKHUTINSKAYA, M.G.

Study of the effectiveness of dyspensary service for dysentery cases. Trudy Len.inst.epid. i microbiol. 18:228-240'58. (MIRA 16:7)

1. Iz sektora epidemiologii (zav. I.A.Ansheles) i laboratorii kishechnykh infektsiy (zav.E.M. Novgorodskaya) Leningradskogo instituta epidemiologii, mikrobiologii i gigiyeny imeni Pastera.
(LENINGRAD--DYSENTERY)
(LENINGRAD--HOSPITALS--OUTPATIENT SERVICES)

SAPOZHNIKOVA, V. A.; SINITSKIY, A. A.; ANSHELES, M. M.; GRIGOR'YEVA, N. G.; KACHANSKAYA, YE. S.; KAUSHANSKAYA, B. YE.; ROSENTAL', K. M.

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MASLENNIKOVA, L.K.; KLUSHINA, T.A.; SAPOZHNIKOVA, V.A.

Characteristics of group adenovirus diseases among children. Sov. med. 25 no.7:95-99 Jl '61. (MIRA 15:1)

1. Iz laboratorii grippa (zav. E.A.Fridman) sektora epidemiologii (zav. I.M.Ansheles [deceased]) Instituta epidemiologii i mikrobiologii imeni Pastera i Leningradskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach N.G.Grigor'yeva).
(ADENOVIRUS INFECTIONS)

MASLENNIKOVA, L.K.; KLUSHINA, T.A.; SAPOZHNIKOVA, V.A.

Characteristics of group diseases caused by adenoviruses in children. Trudy Len.inst.epid.i mikrobiol. 22:174-184 '61. (MIRA 16:2)

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(ADENOVIRUS INFECTIONS) (CHILDREN--DISEASES)

ANSHELES, I.M. [deceased]; NOVGORODSKAYA, E.M.; SAPOZHNIKOVA, V.A.; GOL'DBERG, R.M.; CHAKHUTINSKAYA, M.G.

Epidemiological characteristics of dysentery during a downward curve of the incidence in a large populated center. Trudy Len. inst. epid. i mikrobiol. 24:15-53 '63. (MIRA 18:10)

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Epidemiological significance of some biological characteristics of Sonne dysentery. Zhur.mikrobiol., epid. i immun. 42 no.10:141-142 O '65. (MIRA 18:11)

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ACCESSION NR: AP5001973 S/0020/64/159/006/1221/1223

AUTHOR: Maz'ya, V. G.; Sapozhnikova, V. D.

TITLE: Solution of the Dirichlet and von Neumann problems for irregular regions by the methods of the potential theory

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TOPIC TAGS: Dirichlet problem solution, von Neumann problem solution, potential theory, double layer potential, single layer potential

ABSTRACT: In a previous paper (DAN 147, #3 (1962)), the authors generalized Radon's results (UMN 1, #3-4(1946)) pertaining to the potential of a double layer. In the present communication, they give a generalization of Radon's theory dealing with the potential of a single layer, and with the solubility of the Dirichlet and von Neumann problems. Two theorems are proven concerning the external and internal boundary fluxes of the potential of a single charged layer. The conditions for the solubility of the Dirichlet and von Neumann problems are determined.

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