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ON METEOROLOGY AND
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UNITED STATES AIR FORCE
LIST OF TRANSLATIONS ON
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PURPOSE: Air Weather Service Pamphlet 0-15, Vol. II, "List of Translations on Meteorology and Atmospheric Physics," 1st Supplement, is published for the information of intelligence, scientific, technical, and climatological services activities in AWS units, and of other U.S. military activities concerned. This is a continuation of AWS Bibliography 15, April 1959.
INTRODUCTION

The scope and other background information about this pamphlet were given in the introduction to AWS Bibliography 15 and will not be repeated here. This volume contains translations which have come to the attention of Headquarters Air Weather Service since April 1959. The meaning of symbols used and the addresses of the various sources cited are as follows:

ASTIA  Armed Services Technical Information Agency
       Arlington Hail Stn.
       Arlington 12 Va

AD (see ASTIA)
ATI (see ASTIA)
AGU (see TaGU)

AIBS  American Institute of Biological Sciences
      2000 P St., NW
      Washington 6 DC

AID  Air Information Division
     Science and Technology Section
     Library of Congress
     Washington 25 DC

AIP  American Institute of Physics
      335 East 45th St.,
      New York 17 New York

ATS  Associated Technical Services
      122 East 55th St.,
      New York 22 New York

BMOL  British Meteorological Office Library
       London Road
       Bracknell, Berks
       England

CB  Consultants bureau
    227 west 17th St.,
    New York 11 New York

CSIRO  Commonwealth Scientific and Industrial Research Organization
       314 Albert St.  
       East Melbourne C2
       Victoria, Australia

DSIR  Dept of Sciences and Industrial Research
      Record Section
      Charles House
      5-11 Regent St.,
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</tr>
</tbody>
</table>
ABHANDLUNGEN DES METEOROLOGISCHEN DIENSTES DER DEUTSCHEN DEMOKRATISCHEN REPUBLIK

Foitzik, Leohard, "The Contrast Threshold of the Eye With Relation to the Problem of Visibility," Vol. 1, No. 8, 1951. (AD-225340) *

ABHANDLUNGEN DER OSTBÜROK-R-INSTITUTS DER FREIE UNIVERSITATS BERLIN

Hofmann, B., "Blood Pressure and Subarctic Climate in the Soviet Union," No. 38, December 1958. (AD-233530) *

ACTA GEOGRAPHICA POLONICA

Haman, Krzysztof, "Vietnamese-Polish Aerological Station in Cha-Pa," Vol. VI, No. 3, 1958. * (OTS, Tr. 59-1147)


ACTA GEOGRAPHICA SINICA (TI-LI HSUEH-PAO)


Yang Ch'ieh-Ch'U, and Hsu Shu-Ying, "The Pluvial Regime and the Droughts of the Yellow River Basin," Vol. XXII, No. 4, 1956. (OTS, Tr. JPRS 2572)

Selected Articles, No. 1, February 1959. * (OTS, Tr. JPRS 3091, $1.00)

Contents:


ACTA METEOROLOGICA SINICA

Synopses of Articles, December 1959.

Chao: "On Blocking in East Asia."

Hsiao-p'ing Chou, and Chen-ch'ou Ku, "The Influence of the Slope of a Plateau on the Movement of Troughs and Hidges."

Yu-hsi Kao, "Indian Summer in Eastern Asia."

AGROALINICHESTKI SPRAVOCHNIK


AIR, SEA AND LAND TRANSPORTS BULLETIN (Lebanese)


AKADEMIJA NAUK SSSR (See: ASTRONOMICHESKI ZHURNAL)

AKADEMIJA NAUK SSSR (See: DOILADY)

AKADEMIJA NAUK SSSR (See: IZVESTIYA, SERIIA GEORAFICHESKAIA I GEOFIZICHESKAIA)

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AKADEMIJA N. P. PEREVERTUN, PRAKTIKA (See: PRAKTIKA)

AKADEMIJA NAUK KAZAKHSKOV SSR, TRUDY SEKTORA ASTROBOTANIKA


AKUST ZHURNAL

Bochow, H., et al., "The Determination of the Number of Individual Values Necessary for a Representative Mean Value," Vol. III, No. 6, 1958. (OTS, Tr. AEC/SCL7T279)


Mosby, H., "Evaporation and Radiation From the Sea," Vol. 64, 1936. (HO, Tr.59)

Schott, G., "Oceanography and Climatology of the Persian Gulf and the Gulf of Oman," Part III, Section 4, 1918. (HO, Tr.347)


Demers, P., "Two Radioactive Barometers," Vol. XX, 1954. (UH, Tr.99)

Demers, P., "Two Radioactive Barometers," Vol. XX, 1954. (UH, Tr.99)


Le Bot, Jean, "A New Method for Measuring the Complex Dielectric Constant in Centimeter Waves," May/June 1956. *

ANNUALE: HYDROLOGIQUE

Szigyarto, Z., "The Period of Recurrence of Hydrological Phenomena," Vol. 37, No. 4, 1947. (DSIR, Tr. 33612/CT)

AQUACULTURE


ARCHIV FÜR METEOROLOGIE UND GEOPHYSIK UND BIOKLIMATOLOGIE


ARCHIV FÜR TECHNISCHES MESSEN


ASSOCIAZIONE GEOFISICA ITALIANA, ATTI DEL VII CONVEGNO ANNUALE, 7-9 Nov 1957

30 September 1961


Astarovich, I. S., "Eleven Year Variation of Brightness, Form and Sizes of Counter-glow," No. 190, 1958. * (OTS, Tr. 59-11,518)


Klyakutko, M. A., "Observation of Solar Flares on the GAISh Spectrohelioscope and on Lenin Hills," No. 190, 1958. (OTS, Tr. 59-11,518)


Sharonov, V. V., "The Role of True Absorption in the Atmosphere of Mars," Vol. 34, No. 4, 1957. (RC, Tr. T-111, 9037458)


BEITRÄGE ZUR PHYSIK DER FREIEN ATMOSPHÄRE


BERICHTE DES DEUTSCHEN WETTERDIENSTES IN DER U.S.-ZONE


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**BYULETEN' STANTSII OPTICHESKOGO NABLYUDENYKH ISKUSSTVENNYKH SPUTNIKOV ZENII**


Selected Articles, 1957. * (OTS, Tr. 60-11,156)

Contents:


Feklushin, V. A., "Observations of the Passage of Radiowaves During the Total Solar Eclipse on 30 June 1954."

Fomenko, B. D., "Meteorological Observations During the Solar Eclipse of 30 June 1954."


Neprokin, V. I., "The Course of Meteorological Elements During the Solar Eclipse on 30 June 1954."


Temnikova, N. S., "Meteorological Conditions During the Solar Eclipse on 30 June 1954 in the Latvian SSR."

Selected Articles, No. 15, 1954. (AD-257650) (ATIC, Tr. MCL-54) (OTS, Price $3.60)

Contents:

"An Experiment in Determining the Distribution of the Brightness on the Solar Disc From Observations of a Partial Solar Eclipse."

"Some Peculiarity in the Cyclic Activities of the Sun."

CANADIAN JOURNAL OF PHYSICS

Demers, P., "The Levelling of Constant Height Balloons (Aerostats) at High Altitude," Vol. 31, 1953. (UM, Tr. 101)

CH'I-HSIANG HSUEH-PAO

Anon: "A Summary of Experience Concerning Forecasting and Elimination of Hail in Ho-ch'ing Hsien, Yunnan Province," Vol. 30, No. 1, 1959. *(OTS, Tr. JPRS 7324)


Chao Chiu-Chang, "Development of Meteorological Research in China in the Past Decade," Vol. 30, No. 3, 1959. *(OTS, Tr. 60-11,524, Price $0.50)


Hsieh i-Ping, "Chinese Studies on Precipitation During the Past Decade," Vol. 30, No. 3, 1959. *(OTS, Tr. 60-11,449)


Ku Chen-Chiao, "Communist China's Achievements in Numerical Weather Forecasting," Vol. 30, No. 3, 1959. *(OTS, Tr. 60-11,469, Price $0.75)
CH'I-HSIANG HSUEH-PAO (Cont'd)


Yeh Tu-Cheng, and Haich Kuang-Tao, "Development of Research on Atmospheric Circulation in our Country in the Past Ten Years," Vol. 30, No. 3, 1959. * (OTS, Tr. 60-11,630)

CHUŌ KISHŌDAI KENKYU JIHO (Japan)


Hikawa, G., "Temperature Adjustment of a Certain Kind of Radiosonde," Vol. 9, No. 9, 1957. (OTS, Tr. AEC/SCL-T-231)


Koshizo, Shimakawa, "Observation of Atmospherics Associated With Thunderstorms and Its Application to Weather Forecasting," Vol. 9, 1957. (OTS, Tr. AEC/SCL-T-250)


CHUNG-KUO SHUI-LI

Selected Articles, No. 8, 1958. * (OTS, Tr. JPHS 586-D)

Contents:

"Reports on Rainfall and Water Control."

"Provincial Reports on Rainfall and Water Control."


COMPTES RENDUS DE L'ACADÉMIE DES SCIENCES (Paris)

Bartier, M., et al., "Use of Eclipses of the Moon to Study the Upper Atmosphere," Vol. 214, 1942. (UM, Tr. 94)


COMPTES RENDUS DES TROISIÈMES JOURNEES DE L'HYDRAULIQUE (Algiers)

Grisollet, H., and Johansen, R., "Investigation of the Correlation Between the Maximum Rate of Fall During Rainstorms in the Paris Region and the Total Rainfall," April 1954. (DSIR, Tr. 34001/CT)

DAEGENS NTHETER

[Anon]: "Russian Dams Can Make Sweden Warmer," 23 July 1959. *
DEUTSCHE HYDROGRAPHISCHE ZEITSCHRIFT


Thiel, G., "Influence of Atmospheric and Wind Pressure on the Water Level of the Baltic Sea," Vol. 6, No. 3, 1955. (SLATC, Tr. 2233)


DIE TECHNIK


DIE UMSCHAU (WISSENSCHAFT UND TECHNIK)

Loewe, Fritz, "Exploration of 'Inland Ice' Greenland and Antarctica," No. 4, 1956. * (USACHR, Tr. 58)

Nauer, H., "How Does a Ball Lightning Originate?" Vol. 56, 1956. (OTS, Tr. ABC/SCL-T-246)

DOKLADY AKADEMII NAUK SSSR (G. R. ACAD. SCI. URSS; BULL. ACAD. SCI USSR)


Dokuchayev, V. P., "Electrical Discharge During the Flight of Meteors in the Earth's Atmosphere," Vol. 131, No. 1, 1960. (OTS, Tr. JPRS 3720)


Konstantinova-Schlesinger, M., "The Determination of Atmospheric Ozone at Altitudes of 13 and 14 Kilometers," Vol. 18, 1938. (UM, Tr. 100)


Milin, V. B., "About the Anomalous Electric Fields in the Atmosphere," Vol. 95, No. 5, 1954. *


Nulyarchik, T. M., "Interferometer Measurement of the Widths of $\lambda$ 6300 $\AA$ (O1) and $\lambda$ 5198-5200 $\AA$ (M1) Emission in Auroras," Vol. 130, No. 2, 1960. (OTS, Tr. JPRS 3352)


Prikhorov, P. S. et al., "The Effect of the Saturation Deficit Upon the Coagulation Rate of Water Aerosols," Vol. 81, No. 4, 1951. (ATS, Tr. RJ-1328, Price $7.25, extra copies $1.75)


FIDGENOSSISCHE TECHNISCHE HOCHSCHULE, INSTITUT FUR AERODYNAMIK, MITTEILUNGEN


EISZEITALTER UND GEGENWART

Büdel, Julius, "Climatic Zones of the Pleistocene," No. 1, 1951. (SLATC, Tr. 57-3212)

EKONOMICHESKAYA GAZETA


ELEKTRICHESTVO

Burgdorff, V. V., "Wind Pressure on Overhead Transmission Line Conductors," No. 6, 1957. (PP)

ERGEBNISSE DER EXAKTEN NATURWISSENSCHAFTEN


Bucko, S., "First Conference on Meteorology and Climatology of the Carpathian Region," No. 1, 1960. (OTS, Tr. JPRS 5726)


(OTS, Tr. AEC-3795)

Alekseyeva, M. V., and Yelfimova, Ye. V., "Separate Determination of Chloride and Hydrochloric Acid Aerosols in Air," No. 8, 1958. (OTS, Tr. JPRS L-751-N)

Gusarov, I. I., "Results of the Study of the Natural Radioactivity of the Air," Vol. 25, No. 2, 1960. (OTS, Tr. JPRS 5027)


Chelnokov, S. S., "Present Methods of Preparing Frozen Ground for Excavation," Vol. 27, No. 12, 1953. *(USACRR, Tr. 64)


Selected Articles, Vol. II, No. 1, 1959. (OTS, Tr. JPRS 7299)
Contents:

Chung-Pen, Ho, et al., "A Preliminary Study of the Formation and Characteristics of the Yellow Sea Cold Water Mass."

Kuo-Tien, Ho, "Calculations of Numerical Value of Wind and Sea Currents Within a Semi-Enclosed Sea Area."
HOCHFREQUENZTECHNIK UND ELEKTROAKUSTIK


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INGENIEUR


INSTITUTA EKSPERIMENTAL'NOI METEO ROLOGII

Rudakova, N. V., "Ozone as a Condensation Factor of Water Vapor," No. 1, 1937. (USWBL)

INZHENIERNII FIZIKI ZHURNAL


Mikhnevich, V. V., et al., "Certain Results in the Determination of Structural Parameters of the Atmosphere With the Aid of the Third Soviet Artificial Earth Satellite," No. 3, 1959. (AD-236119/or AD-237570) (NASA, Tr. TTF-13)

Mikhnevich, V. V., "Preliminary Results of a Determination of the Density of the Atmosphere Above 100 km," No. 2, 1959. *


Selected Abstracts, No. 3, 1959. (AD-234501) * (NASA, Tr. TTF-8)
IZVESTIYA


Lanina, V., "Reconnaissance of the Blue Ocean," 1 April 1959. (OTS, Tr. PB 131632-63)

Mirtov, B. A., "In the Upper Layers of the Atmosphere," 5 July 1960 * (OTS, Tr. PB 131632-130)


IZVESTIYA AKADEMIIA NAUK SSSR


IZVESTIYA AKADEMIIA NAUK AZERBATZHANSKOI SSR, SERIJA GEOGEOGRAFICHESKAI NAUK


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IZVESTIYA AKADEMIYA NAUK SSSR, OTDELENIYE TEKHNICHESKIIH NAUK, MEKHANIKA I
NASHINOSTROYENIYE

Stanyukovich, K. P., "Aerodynamic Effects of Meteorites. A Specific Case," No. 5,
1960. (NASA Tr. TTF-70)

IZVESTIYA AKADEMIYA NAUK SSSR, SERIIA FIZIKO-MATHEMATICHESKIIH NAUK

Gubin, V. I., and Karimberdyevova, S., "Predicting the Height of the 700-mb Isobaric
JPRS 6465)

JPRS 2842)

IZVESTIYA AKADEMIYA NAUK SSSR, SERIIA GEOPHIZICHESKAIA

Aleksandrov, E. L., "Sixth USSR Conference on Problems of the Study of Clouds,
Precipitation and Weather Modification," No. 10, 1959. (OTS, Tr. JPRS 1148-D)

Amineva, T. P., "Radioactivity of Air Under Meteorological Conditions in the
Vicinity of Mount Elbrus," No. 10, 1960. (OTS, Tr. JPRS 7494)

Anon: "Conference of the Main Geophysics Observatory on the Meteorology of the
Surface Air Layer," No. 10, 1957. (PP)

Anon: "Conference on Problems of Investigating Thunderstorms and Hailstorm
Phenomena in the Alazan Valley," No. 10, 1957. (PP)

Radiation in the Upper Atmosphere," No. 5, 1960. (OTS, Tr. JPRS 5440)

JPRS 8287)

Balabanova, V. N., et al., "Experiments on the Modification of Cumulus Clouds in
the Alazani Valley," No. 2, 1959. (ATS, Tr. RJ-2834, Price $18.40, extra copies
$7.50)

Balabanova, V. N., et al., "The Influences of the Air Medium Temperature on the
(ATS, Tr. RJ-2835, Price $7.65, extra copies $0.90)

No. 7, 1958. (AD-245726) *

Bocharov, E. I., "The Attenuation of Infra-red Radiation by Water Fogs," No. 6,
1958. (AD-226282) *

Bolyunova, A. D., "A Contribution Towards the Construction of a Model of the
Atmosphere," No. 10, 1960. (OTS, Tr. JPRS 7735)
IZVESTIYA AKADEMIIA NAUK SSSR, SERIYA GEOFIZICHESKAIA (Cont'd)


Diubiuk, A. F., "Determination of the Wind Through a Pressure Field in Computing the Friction of Vertical and Horizontal Mixing," No. 2, 1958. (AD-211963) *


Driving, A. Ia., and Smirnova, A. I., "Clouds in the Stratosphere," No. 3, 1958. (AD-210843) *

Dzerdzeyvskii, B. L., "Possibilities of Changing the Climatic Conditions of the Caspian Region," No. 1, 1952. (SLATC)

Enzenshtein, B. S., and Aronov, L. Z., "Experimental Research Into the Natural Electromagnetic Field of the Earth in the Frequency of 2-300 c/s," No. 1, 1957. (USWiL)


Fel'dshteyn, Ya. I., "The Distribution of Aurorae in the Circumpolar Region," No. 1, 1959. (OTS, Tr. PB 131632-54)

Feygel'son, Ye. M., Abstract: "Radiation Cooling of Stratus Clouds," No. 6, 1959. (OTS, Tr. PB 131632-80)


IZVESTIA AKADEMII NAUK SSSR, SERIJA GEOFIZICHESKAI (Cont'd)


Ivanov, R. N., "Mechanism of the Transfer of Wind Energy to a Water Current," No. 5, 1958. (AD-235816) *


Karavayeva, V. I., "The First Moscow City Conference of New Scientists on the Problems of Oceanology," No. 3, 1959. (Navy 2377/HO 87)


Kogan, K. M., and Friedman, Sh. D., "Energy Distribution of Gamma-Ray Quanta in the Atmospheric Layer Near the Earth's Surface," No. 4, 1960. (OTS, Tr. JPRS 5786)


Kopanev, I. D., "Air Temperature and Humidity Over a Drained Bog," No. 4, 1957. (USWBL)

IZVESTIIA AKADEMIIV NAUK SSSR, SERIIA GEOFIZICHESKAI (Cont'd)

Krasnogorskaia N. V., "A Photoelectric Method of Investigating the Particle Size Distribution of Precipitation," No. 6, 1955. (ATS, Tr. Rl-1340, Price $10.80, extra copies $3.10)


Laktionov, A. G., "Results of Research on Natural Aerosols Over Various Regions of the USSR," No. 4, 1960. (OTS, Tr. JPRS 5787)


Lilyenbreg, D. A., "Interdepartmental Conference on Glaciation of the Caucasus," No. 5, 1959. (OTS, Tr. JPRS 2428)


Megrelishvili, T. G., "Re the Limits of Applicability of the Twilight Method of Atmospheric Research," No. 8, 1956. (AD-204507)

(Cont'd)


Nemchinov, S. V., "Short Period Forecast of Non-Zonal Shift in Heights of the Absolute Topography for the Lower and Middle Troposphere," No. 6, 1958. (OTS, Tr. JPRS 1633-N)

Novikov, Ye. A., "Settling of Particles From an Aerosol Stream on an Obstacle," No. 8, 1957. (OTS, Tr. JPRS 9084)


Pogorelov, V. I., "Radar Reflections From Auroras," No. 8, 1958. (OTS, Tr. JPRS 459-D)


IZVESTIIA AKADEIIA NAUK SSSR, SERIIA GEOFIZICHESKAIA (Cont’d)


Shuleikin, V. V., "Calculation of the Possible Dimensions of Waves in Atlantic Hurricanes," No. 7, 1960. (OTS, Tr. JPHS 6586)

Shuleikin, V. V., et al., "Fluctuations in the Heat Balance of the Atlantic Ocean," No. 6, 1958. (AD-252315) *


Taylor, R. J., "The Form of Wind Profile in the Layer of Atmosphere Near the Ground," No. 12, 1960. *(QSIR0)

Tkachuk, V. R., "Computation of the Horizontal Wind Components When Calculating the Internal Friction and Non-Linear Terms of Acceleration," No. 12, 1958. *(ATI-236563) *


Tsvang, L. R., and Komarov, N. N., "Investigation of the Spectrum of Light Ions in the Free Atmosphere," No. 8, 1959. (OTS, Tr. JPHS 6108)


IZVESTIIA AKADEIIA NAUK SSSR, SERIIA GEOGRAFICHESKAIA


Maksimov, I. V., "On Some Phenomena of the Eleven-Cycle of the Sun's Activity," No. 1, 1954. *(AD-258430) " *(TIC, Tr. MCL-68/1+2)
IZVESTIJA AKADEMIIA NAUK SSSR, SERIIA GEOGRAFIKESKAIKA I GEOPHIZIKESKAIKA

Ol', A. I., "Solar Activity and Geomagnetic Disturbances," No. 6, 1943. (AD-137555)*


IZVESTIJA ASTROFIKESKOGO INSTITUTA, AKADEMIIA NAUK KAZAKHSKIOY SSSR

Divari, N. B., "On the Color of the Twilight Sky Zenith," No. 9, 1960. (OTS, Tr. JPRS 5650)


Toropova, T. P., "Some Results of Measurements of the Indicatrices of Scattering and the Polarization of Light in the Ground Layer of the Atmosphere," No. 9, 1960. (OTS, Tr. JPRS 5650)

IZVESTIJA GLAVNAIA GEOPHIZIKESKAIA OBSERVATORIIA


Chuvayev, A. P., "Concerning the Features of a Methodology of Effects of 'Dry Ice' Upon Convective Clouds With the Purpose of Causin Precipitation in Them," No. 72, 1959.

Chuvayev, A. P., et al., "Experience in Controlling Development of Powerful Convective Clouds Over a Considerable Area," No. 72, 1957. (F-1180, Tr. F-TS-9918/V)

Chuvayev, A. P., "An Experiment in Controlling the Development of Strongly Convective Clouds in Northwestern European USSR," No. 67 (129), 1957. (ATS, Tr. B-12850, Price $64.95, extra copies $15.75)

Veinberg, B. P., "The Influence of Temperature on the Mechanical Strength of River Ice," No. 2, 1929. (AD-235825) *

IZVESTIJA AKADEMIIA NAUK SSSR, KRIMSKAIA ASTROFIKESKIIA OBSERVATORIIA


30
IZVESTIYA AKADEMIIA NAUK SSSR. KRIMSKAYA ASTROFIZICHESKAYA (Cont'd)


Odintsova, I. N., "Determination of the 'Quiescent' Ionosphere," Vol. 17, 1959. (AD-252313) *


Selected Articles, Vol. 19, 1958. (AD-257675) (TIC, Tr. MCL/487) (OTS, Price $5.60)
IZVESTIIA AKADEMIIA NAUK SSSR, OTDELENIYE TEKhNICHESKIH NAUK


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IZVESTIIA VYSISHKH UCHEBNYKH ZAVEDENIY RADIOFIZIKA


JEN-MIN JIH-PAO

Anon7: "Correctly Grasp Meteorological Forecast to Reduce Damages," 12 August 1960. (OTS, Tr. JPRS 5708)


JOURNAL OF ATOMIC ENERGY SOCIETY (Japan)


JOURNAL OF CHINESE METEOROLOGY (See: CH'I-HSIANG HSUEH-PAO)
JOURNAL OF GEOPHYSICAL RESEARCH


JOURNAL OF METEOROLOGICAL SOCIETY OF JAPAN (See: KISHO SHUSHI)

JOURNAL OF METEOROLOGICAL RESEARCH (See: CHUO KISHODAI KENKYU JITO)

JOURNAL OCEANOGRAPHY SOCIETY OF JAPAN

Kusunoki, K., "Observations on the Horizontal and Vertical Distribution of Chlorinity of Sea Ice," No. 11, 1955. (BMOL)


JOURNAL SCIENTIFIQUE DE LA METEOROLOGIE


KAZAKHSTANSSKAIA PRAVDA

Merkina, Ye., "Weather Scouts," No. 4, 1958. *

Khidrooliyuy i Meteorologiia (Sofia)


Martinov, M., "Cold Fronts on the Western Quadrant and Conditions Producing Frontogenesis or Frontolysis Over the Balkan Peninsula," No. 5, 1960. (OTS, Tr. JPRS 8151)


Sueva, V., "Ice Conditions of the Danube River (Bulgaria)," No. 1, 1958. (OTS, Tr. JPRS/NY-L-443)
KISHO SHUSHI (Japan)


K'0-HSUEH HUA-PAO


K'0-HSUEH HSIN-WEN

Chiu, Lu, "The Use of Microclimatology," No. 38, 1959. (OTS, Tr. JPRS 7462)

[Ching]: "The Building of 30,000 Atmosphere, Liquid Medium, High-Pressure Equipment," No. 34, 1959. (OTS, Tr. JPRS 2416)

K'0-HSUEH T'UNG-PAO


Yang Wen, "Second and Third Enlarged Council Meetings of the Meteorological Society of China," No. 16, 1958. (OTS, Tr. JPRS L-772-N, Price $0.50)

KO-JU-K'AI-FUNG PAO-KAO


KOLLOIDNY ZHURNAL

Docent, and Borisov, D., "What Information Did the Soviet Space Rocket Provide?" No. 224, September 1959.


Kolobkov, N., "Glider Flights on Long Air Waves," 1957

Walstedt, L., "Climate and Vegetation of Mountains," Vol. 97, No. 4, 1958. (CSIRO, Tr. 4332)


Saheki, Yoichi, "On the Measurement of Wind (Tunnel) Velocity (Distributions) by the Electric Spark Method," Vol. 8, No. 1, 1947. (DRB)


Afanas'ev, N. I., "Determination of the Amount of Evaporation," 1959, No. 7. (AD-246345) *

Agureyev, S. P., "Nomogram for Processing Drift Ice Observations," 1958, No. 1. (AD-220621) *

Akimov, M. N., "Changing the Pressure Comb of a Radiosonde to Extend Its Range," 1958, No. 2. (OTS)


Andreyev, I. D., "Accuracy of Wind Velocity Measurements With the Automatic Recorder M-12," 1958, No. 2. (OTS, Tr. JPRS NY-L-462)


Antinov, V. F., and Logino, N. F., "Method of Calculating the Height of Ascent of Radiosondes Taking into Account the Strength of Balloons at Low Temperature," 1958, No. 7. (OTS, Tr. JPRS 675-D, Price $0.50)


Arkhangelskii, V. L., "Winter Sea of Okhotsk Cyclone — A Seasonal Center of Atmospheric Activity," 1959, No. 4. (AD-245762) *

METEOROLOGIA I GIDROLOGIA (Cont'd)

Averbakh, N. V., "Determination of the Elements of Surface Sea Currents by the Method of Radioactive Tracers," 1959, No. 9. *(OTS, Tr. 60-111,174)*


Avvakumov, V. A., "The Location of the Level of Maximum Wind Speeds in Different Parts of the Jet Stream," 1959, No. 3. *(AD-246340) *(OTS, Tr. JPRS L-1053-N)

Bagrov, N. A., "Hydrodynamic Methods of Long-Range Weather Forecasting," 1958, No.11. *(OTS, Tr. JPRS L-701-N)*

Baranov, A. M., "The Vertical Extent of Upper-Layer Clouds," 1960, No. 4. *(AD-253480)*

Belinskiy, N. A., and Glagoleva, M. G., "Method of Calculating the Temperature of the Water in the Upper Layer of the Sea in the Warm Part of the Year," 1960, No.7. *(OTS, Tr. JPRS 7343)*

Belogurov, Iu. A., "Diurnal Temperature Variations According to Aerological Observational Data," 1949, No. 4. *(AD-245743) *

Belousov, S. L., "On Numerical Prediction of the Pressure Pattern at Different Levels," 1957, No. 9. *(DT, Met. Tr., No. 1, Jan 59)*

Belousov, S. L., "Precalculation of the Pressure in the Middle Troposphere for the Northern Hemisphere," 1958, No. 11. *(OTS, Tr. JPRS L-700-N)*

Belov, P. N., "Forecasting Atmospheric Pressure With the Aid of Empirical Influence Functions," 1958, No. 2. *(AD-211961) *


Berezin, A. I., "Experimental Data on the Growth of Ice in By-Pass Canals," 1958, No. 10. *(AD-245744) *

Berliand, M. E., "Forecasting and Regulating the Thermal Cycle of the Surface Layer of the Atmosphere," 1956, No. 11. *(Review by P. N. Tverskoy) *(USWBL)

Betin, V. V., et al., "A Method of Instrumental Aerial Ice Observations of Continental Ice in the Sea," 1959, No. 5. *(HO-122)*


Brits, V. S., et al., "The Question of the Connection of the Total Ozone Content With Meteorological Condition," 1958, No. 10. *(AD-238325) *
METEOROLOGIA I GIDOLOGIJA (Cont'd)

Budtolayev, N. M., "On the Possibility of Changing the Climate in the Vicinity of Tatar Strait," 1961, No. 2. (OTS, Tr. JPRS 9213)

Budyko, M. I., "Determination of Evaporation by the Penman Method," 1959, No. 7. (AD-246344) (Superseded by AD-252314) *


Budyko, M. I., "Meteorological Research in the USSR," 1957, No. 11. (AD-226793) *


Bugayev, V. A., "Meridional Meteorological Profiles," 1958, No. 7. (OTS, Tr. JPRS 675-D, Price $0.50)

Bukhendler, K., "Hydrometeorological Service of Albania on the Rise," 1958, No. 3. (OTS, Tr. JPRS/L-492-N)

Bukhov, Ye. D., "Weather Analysis and Forecasting by Superimposing a Map of the Tropopause on an AT-300 Map," 1959, No. 4. (OTS, Tr. JPRS/L-1082-N)

But, I. V., "Temperature Inversion Caused by Rains," 1949, No. 1. (SLATC, Price $1.10)

Chuvayev, A. P., "On Conditions Which are Favorable for the Artificial Promotion of Precipitates From Thick Cumulus Clouds," 1956, No. 11. (SLATC, Price $2.40)

Davitaya, F. F., et al., "Climatic Resources and Prospects of Their Use in the National Economy," 1960, No. 4. (OTS, Tr. JPRS 2748)


Dobryshman, Ye. M., "All-China Meteorological Conference on Long-Range Weather Forecasting," 1959, No. 3. (OTS, Tr. JPRS/L-1058-N)


(DTS, Tr. 60-11,702)


Dzhordzhuy, V. A., "Atmospheric Ice, Frost, Icing, Snow and Hail," (Review), 1957, No. 2. (SLATC, Price $1.80)


Freydzon, A. I., "Handbook of Short-Range Weather Forecasts," 1958, No. 4. (OTS, Tr. JPRS NY-L-538)

Gaigerov, S. S., "Results of the Aerological Observations Made at the Drifting Station North-Pole-4 in 1955-56," 1957, No. 10. (PS)


Gandin, L. S., and Dubov, A. S., "The Question of the Qualitative Analysis of the Vorticity Equation," 1957, No. 4. (AD-253552) *

Ganson, P. F., "Formula for Computing the Velocity of the Distribution of Sound in Sea Water," 1958, No. 4. (AD-236571) *

Gavrilova, V. M., "The Movement of Cyclones to Cold Regions," 1958, No. 4. (OTS, Tr. JPRS L-544-2-N)


Girs, A. A., "Transformation of Types of Atmospheric Circulation and Their Analysis," 1956, No. 3. (USWBL)

Glomozda, A. A., "Forty Years of Hydrometeorological Service in the Belorussian SSR," 1959, No. 2. (OTS, Tr. JPRS L-1064-N)


Golyshkov, G. I., "Advances in Soviet Aerology," 1957, No. 11. (AD-226783) *


Gordon, S. M., "The Possibility of Using Radiosonde Temperature Data for Hydrological Computations and Forecasts," 1958, No. 9. (OTS, Price $0.50)

Goriunov, I. V., "Combating Bottom Ice and Sludge by Accelerating the Formation of the Ice Cover," 1958, No. 11. (AD-218732) *


Hsin-Yuuan, T., "Solution of the Spatial Problem of the Change in the Geopotential With Time, in which the Substitution of Finite Differences for the Laplacian is made more Accurate," 1959, No. 1. (AD-232210)


Il'inskiy, O. K., "Some Observations on the Contents of Synoptic Meteorological Manuals," 1958, No. 8. (OTS, Tr. JPRS 679-D, Price $0.50)

Iudin, M. I., "Ways of Developing Physical Basis for a Numerical Shortrange Forecast," 1959, No. 2. (AD-234735) *


Kachurin, L. G., "C: the Radiation Inertia of Aerological Thermometers," 1957, No. 8. (OTS, Tr. AEC/SCL-T-197)


Kalmykova, N. M., "Formation of the Siberian Anticyclone," 1957, No. 4. (AD-214934) *

Kaminer, N. S., "Statistical Relations in the Upper Layers of the Atmosphere," 1958, No. 3. (OTS, Tr. JPRS/L-494-N)

Kashin, K. I., "The Development of Synoptic Meteorology Over the Past Forty Years," 1957, No. 11. (AD-226783) *
### METEOROLOGIA I GIDOLOGIA (Cont'd)

  *(OTS, Tr. JPRS/L-1065-N)*


- Kats, A. L., "General Circulation Index as an Indicator for Zonal and Meridional Synoptic Processes," 1959, No. 5. *(OTS, Tr. JPRS/L-1075-N)*

- Khakhalin, V. S., and Poliyakho, V. A., "Thirty Years of Radiosondes," 1960, No. 2. *(OTS, Tr. PB 131632-115)*

  *(OTS, Tr. JPRS-1351- N)*

  *(OTS, Tr. JPRS/L-1066-N)*


  *(OTS, Tr. JPRS/L-1079-N)*

  *(OTS, Tr. JPRS/DC-L-1003)*


- Kliukin, N. K., "Concerning the Distribution of Meteorological Elements on Suntar-Khayata Range (Eastern Yakut ASSR)," 1959, No. 1. *(USWBL)*

- Kogan-Beletskiy, G. I., "Estimation of Flight Conditions at a High Altitude," 1960, No. 4. *(OTS, Tr. JPRS 2749)*


Kondrat'yev, K. Ya., and Filippovich, O. P., "Toward a Theory of the Temperature Regime of the Upper Atmosphere," 1959, No. 12. (OTS, Tr. JPRS 2662) *

Korsun, V. I., et al., "Large Scale Automation of Hydrometeorological Operations and the Formation of an Automatic Telemetric Station Network," 1961, No. 2. (OTS, Tr. JPRS 921A) *

Koshelenko, I. V., "Forecasting Radiation Fog," 1956, No. 3. (USWEL)

Koshinskii, S. D., "Constructing Charts of the Wind Field Over the Sea," 1958, No. 9. (OTS, Price $0.50)

Koshinskii, S. D., "Orographic Disturbances in a Wind Field," 1959, No. 5. (AD-238324) *


Krichak, O. G., "Certain Characteristics of Atmospheric Circulation Over the Antarctic," 1958, No. 4. (OTS, Tr. JPRS/NY-L-545)

Krichak, O. G., "In Antarctica," 1957, No. 6. (OTS, Tr. JPRS/DC-L-902)


Kulik, M. S., "Agrometeorological Forecasts: A Most Important Way of Serving Agriculture," 1960, No. 6. (OTS, Tr. JPRS 4025) *

Kurasima, A., "Study of Soviet Meteorology in Japan," 1958, No. 4. (OTS, Tr. JPRS NY-L-539)


METEOROLOGIA I GIDROLOGIA (Cont'd)

Kuznetsov, A. I., "Determination of Sludge Ice Density," 1959, No. 2. (AD-235828)*

Kuznetsov, G. I., "The All-Union Conference on Atmospheric Ozone," 1960, No. 2. (OTS, Tr. PB 131532-115)

Kuznetsov, G. I., "The Problem of Ozone," 1959, No. 4. (AD-236575) * (OTS, Tr. JPRS/L-1088-N)

Kvaratskheliya, I. F., "Properties of the Changes With Altitude of the Yearly Amplitudes of Air Temperatures Over the Southern Regions of the USSR," 1958, No. 4. (OTS, Tr. JPRS/L-543-N)

Lagranzh, R. V., "On the Preciseness of the Calculation of Winter Precipitation in the Arctic Region," 1960, No. 10. (OTS, Tr. JPRS 7470)

Lavrov, V. V., "The Question of Underwater Ice Formation," 1957, No. 5. (AD-227429)*


Leonov, M. P., "Synoptic-Aerological Investigation of Atmospheric Fronts," 1957, No. 4. (AD-243759) *

Liser, I. Ia., "Initial Growth of Ice, and Underice Sludge," 1958, No. 11. (AD-236574) *


Mamakin, V. N., "The Richardson Number as a Function of Altitude," 1959, No. 7. (AD-245755) *


Mashkovich, S. A., "Forecasting Surface Pressure With the Aid of High-Speed Electronic Computers," 1957, No. 1. (PS)

Matveyev, L. T., and Zyabrikov, V. A., "Qualitative Analysis of Conditions in the Formation of Vortices in the Atmosphere," 1958, No. 7. (OTS, Tr. JPRS 678-D, Price $0.50)
AWSP 0-15
Vol. II
30 September 1961

MЕTEOHOLOGIA I GIDROLOGIA (Cont'd)

Matveyev, L. M., "On the Theory of the Formation of Clouds and Aircraft Vapor
Trails Under the Influence of Mixing," 1959, No. 3. (OTS, Tr. JPRS/L-1052-N)


Mertsalov, A. N., "Air Cooling and Condensation During Heat Convection," 1959,
No. 11.

(OTS, Tr. JPRS/NT-L-464)


Mertsalov, A. N., "The Question of the Interconnection Between Wind Divergence,
Change of Vorticity and Pressure Change," 1959, No. 4. (AD-238326) *

Matveyev, L. T., and Zyabrikov, V. A., "Qualitative Analysis of Conditions in the
Formation of Vortices in the Atmosphere," 1958, No. 7. (OTS, Price $0.50)

Morskoy, G. I., "Experimental Forecast of the Monthly Mean Height Values for 500-mb
Charts," 1960, No. 10. (OTS, Tr. JPRS 7468)

(SLATC, Price $1.80)

Muchnik, V. M., "The Connection Between Thunderstorm Formation and the Intensity of
Precipitation," 1957, No. 9. (AD-236564) *

(AD-236564) *

(SLATC, Price $1.80)

Computer Pogoda /Weather/ in Forecasting the Mean Monthly Air Temperature
Anomaly," 1958, Nos. 2-3. (AD-211962) *

Menezhkovskiy, R. A., "On the Problem of Preparing Hydrological Forecasts for
Unexplored Rivers," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1004)

Nikandrov, V. Ya., "Fight Against Nail Damage in Italy," 1960, No. 4. * (OTS, Tr.
JPRS 2753)

(AD-253553) *

Ogneva, T. A., "On the Progress-Report Session of the Scientific Council of the
Main Geophysical Observatory (imeni A. I.Voyeykov)," 1959, No. 5. (OTS, Tr.
JPRS/L-1077-N)
Orlova, Ye. M., "Nonperiodic Oscillations of the Altitude of the Tropopause in Connection With Synoptic Processes," 1958, No. 7. (OTS, Tr. JPRS 674-D, Price $0.50)

Parchevskiy, V., "Investigation of Thermal Vertical Currents," 1958, No. 5. (OTS, JPRS/L-604-N, Price $0.50)


Peryshkin, I. N., "A Tornado in White Russia," 1957, No. 5. (AD-2117703) *

Peshkova, I. I., "The Question of the Role of Ageostrophic Wind Deviations in Formation of Fields of the Absolute Geopotential," 1959, No. 3. (AD-246218) *


Pogosian, Kh. P., "The Stratospheric Jetstream During the Cold Season," 1959, No. 2. * (OTS, Tr. JPRS/L-1063-NT)

Pogosian, Kh. P., "The Stratospheric Jetstream in the Warm Season," 1959, No. 7. (AD-245758) * (OTS, Tr. JPRS/L-1144-N)


AWSP 0-15
Vol. II

30 September 1961

METEOROLOGIA I GIDROLOGIA (Cont'd)


Ponomarenko, I. N., "Scientific Seminar in the Operating Subsections of the Hydrometeorological Service," 1958, No. 3. (OTS, Tr. JPRS/L-491-N)

Popov, N. I., "On the All-Union Conference on the Ionosphere," 1960, No. 9. (OTS, Tr. FB 131632-144)

Popova, T. P., "Peculiarities of Warm Fronts Over European USSR in Winter," 1957, No. 6. (AD-215606) *

Popova, T. P., "The Role of Vertical Motions in Altering the Temperature Gradient and in Producing Clouds," 1961, No. 1. (OTS, Tr. JPRS 9206)


Rakipova, L. K., "Research on the Transfer of Angular Momentum in the Atmosphere," 1958, No. 11. (OTS, Tr. JPRS/L-702-N)

Reshetov, V. D., "Peculiarities of the Daily Pressure Variation in Cyclones and Anti-Cyclones," 1957, No. 2. (AD-215607) *

Rozhkov, L. P., "First Results of Working in a New Manner," 1960, No. 2. (OTS, Tr. JPRS 2767)

Rubinshtein, E. S., "Contribution to the Problem of the Earth's Cold Poles," 1958, No. 12. (DRB)

Rudnev, G. V., "Conference of the Chiefs of Agricultural Meteorological Stations," 1958, No. 4. (OTS, Tr. JPRS/NI-L-537)

Rusin, N. P., "Meteorological Regime of Antarctic Oases and Their Effect on the Surrounding Ice Surface," 1958, No. 3. (OTS, JPRS/L-498-N)


Sadokov, V. P., "On the Problem of the Movement of Cyclones," 1958, No. 8. (OTS, Tr. JPRS/L-597-N)

Sagatovskiy, N. V., "A Review of the Poor Quality of Research and Scientific Writing Which Occur in the Thirteenth and Fourteenth Issues, 1958, of Trudy Ukrnigmi' (Works of the Ukrainian Hydrometeorological Scientific Research Institute)," 1959, No. 6. (OTS, Tr. JPRS/L-1906-D)


Shabelnikova, M. V., "On the Relationship Between Temperature Gradients in the Region of Jet Stream and the Developments of Cyclones," 1958, No. 5. *(DT)*


Shashkova, A. I., "Problem of the Prognosis of the Trajectories of Air Particles," 1958, No. 4. *(OTS, Tr. JPRS/L-544-N)*


Shewchenko, P. F., "The Calculation of Saturation With Regard to Ice When Forecasting Radiation Fogs and Cloudiness," 1950, No. 12. *(AD-245730) *

Shishkin, N. S., "The Forecasting of Thunderstorms and Showers by the Slice Method," 1957, No. 8. *(ATS, Tr. RJ-1049, Price $8.65, extra copies $2.35)*


Shishkova, I. A., "Problem of the Prognosis of the Trajectories of Air Particles," 1958, No. 4. *(OTS, Price $0.50)*

Shmeter, S. M., "Several Characteristics of Turbulence and the Temperature Field Over Mountains," 1960, No. 3. *(AD-253482) *


Skriptuntova, L. I., "The Role of the Surface Heat Balance in the Water Temperature Regime of the Northern Part of the Atlantic Ocean," 1957, No. 7. *(AD-236579) *

Slobodov, N. Ya., "Changes in the Vertical Temperature Gradients and Fluctuations in the Height of the Tropopause," 1959, No. 3. *(OTS, Tr. JPRS/L-1954-N)*
KNTkJROLOGIIA I GIDROLOGIIA (Cont'd)

Smirnova, S., "Appreciation of Parching Weather Over Small Territories," 1958, No. 6. (CSIRO, Tr. 5063)


Sokolov, I. F., "A Dust Storm in the Primor'e," 1957, No. 3. (AD-227545) *


Tsimaya, B. Sh., "Change in the Speed of Retreat of Caucasus Glaciers in Connection With the Warming of the Climate," 1959, No. 10. *


Tsyanov, G. P., "Experience in Meteorological Assistance to the Regional Dispatch Service and Use of the Rupor Radar Station for the Air Weather Station of the Civil Air Fleet (AWSG) at Rostov-on-the-Don," 1957, No. 6. (AD-226730) *

Tu, Hsin-Yuan, "Solution of the Spatial Problem of the Change in the Geopotential With Time, in which the Substitution of Finite Differences for the Laplacian is Made More Accurate," 1959, No. 1. (AD-232210) *

Ugreninov, I. T., "The Graphic Method of Forecasting Fog (Short Term)," 1958, No. 12. (AD-236573) *

Usmanov, R. F., "Vertical Cross Section of the Atmosphere Over the Indian Ocean," 1957, No. 4. (AD-232213) *


Uspe'nskiy, B. D., "Forecasting the Evolution of Low-Level Cyclones and Anticyclones," 1961, No. 1. (OTS, Tr. JPRS 9205)
METEOROLOGIJA I GIDROLOGIJA (Cont'd)

USSR, "Literature on Meteorology and Hydrology in 1956," 1957, No. 6. (OTS, Tr. JPRS/DC-L-901)

USSR, "Literature on Meteorology and Hydrology in 1956," 1957, No. 7. (OTS, Tr. JPRS/DC-L-1008)

USSR, "Bibliography of Meteorology and Hydrology for 1957," 1958, No. 2. (OTS, Tr. JPRS/NY-L-465)

USSR, "Literature on Meteorology and Hydrology During 1957," 1958, No. 3. (OTS, Tr. JPRS/L-495-N)

USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 7. (OTS, Tr. JPRS/680-D)

USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 8. (OTS, Tr. JPRS/L-599-N)

USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 9. (OTS, Tr. JPRS/L-658-N)

USSR, "Literature on Meteorology and Hydrology for 1957," 1958, No. 11. (OTS, Tr. JPRS/L-1627-D)

USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 2. (OTS, Tr. JPRS/L-1067-N)

USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 3. (OTS, Tr. JPRS/L-1056-N)

USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 4. (OTS, Tr. JPRS/L-1087-N)

USSR, "Literature on Meteorology, Hydrology and Oceanography for 1958," 1959, No. 7. (OTS, Tr. JPRS/L-1146-N)


USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959," 1960, No. 4. (OTS, Tr. JPRS 2752)

USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959," 1960, No. 7. (OTS, Tr. JPRS 7258)

USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959," 1960, No. 10. (OTS, Tr. JPRS 7471)
METEOROLOGIA I GIDROLOGIJA (Cont'd)

USSR, "Literature on Meteorology, Hydrology and Oceanography in 1959 (Conclusion)," 1960, No. 12. (OTS, Tr. JPRS 9133)

USSR, "Literature on Meteorology, Hydrology and Oceanography for the Year 1960," 1961, No. 2. (OTS, Tr. JPRS 9214)

USSR, "Meteorology," 1960, No. 5. (OTS, Tr. PB 131632-125)

USSR, "Table of Contents of Meteorologija i Gidrologija," January 1960. *

USSR, "Transactions of the Scientific Research Institutions of the Hydrometeorological Service in 1959," 1960, No. 2. (OTS, Tr. JPRS 2666)

USSR, "Transactions of the Scientific Research Institutions of the Hydrometeorological Service During 1959," 1960, No. 5. (OTS, Tr. JPRS 7047)


USSR, "Works of the Scientific-Research Institutions of the Hydrometeorological Service During 1957," 1958, No. 5. (OTS, Tr. JPRS/L-608-N)


Vapnyar, D. U., and Pokudov, V. V., "On the Project for Improving the Climate of Primorsky Kray," 1961, No. 3. (OTS)


METEOROLOGIA I GIDROLOGIA (Cont'd)

Voronova, N. V., "Use of Electrodynamic Analogy to Calculate Thermal Intensification of Wind," 1959, No. 4. (AD-238329) *


Yepiat'yev, M. N., "Fog Diagnosis and Forecast," 1958, No. 6. (OTS, Tr. JPRS/L-651-N)

Yevseyev, P. K., "Distribution of Showers and Steady Rainfall on the Territory of the USSR," 1958, No. 3. (OTS, Tr. JPRS/L-499-N)

Zalogin, B. S., and Edel'man, M. S., "Use of the Bathythermograph in an Arctic Sea," 1959, No. 4. (AD-236577) *

Zamorskiy, A. D., "Ultra-Cirrus Clouds," 1960, No. 4. (AD-253560) *


Zhavoronkina, T. K., "The Chemical Composition of Atmospheric Precipitation," 1958, No. 9. (OTS, Tr. JPRS/L-657-N)

Zolotukhin, A. A., "Tasks of the Hydrometeorological Service in the Light of the 21st Session of the Communist Party," 1959, No. 4. (OTS, Tr. JPRS/L-1080-N)

Zubov, N. N., "The Effect of Pressure Topography on Sea Level and on Vergence Phenomena," 1959, No. 6. (AD-236567) *

Zubov, N. N., "The Maximum Thickness of Sea and Land Ice," 1959, No. 2. (AD-235812)*


Selected Articles 1957, No. 11. (AD-226783) Contents:

Budyko, M. I., "Meteorological Research in the USSR."

Golyshnev, G. I., "Advances in Soviet Aerology."

Kashin, K. I., "The Development of Synoptic Meteorology Over the Past Forty Years."

Selected Articles, 1961, No. 2. (OTS, Tr. JPRS 9214) Contents:

Pastukhova, G. F., "Experience of Long-Range Forecasting of Spring Floods Using Atmospheric Circulation Indices."

Sobolev, L. G., "Hydrometeorological Observations Aboard Ships."

USSR, "Literature on Meteorology, Hydrology and Oceanography for the Year 1960."


Bary de E., and Müller, P., "Height Distribution of Clouds in Different Weather Situations," Vol. 9, Nos. 7-8, 1956. (USWEL)

Essenwanger, C., and Holzapfel, R., "Tentative Interpretation of the Air Movement Over Central Europe," Vol. 10, 1957. (OTS, Tr. AEC/SCL-T-205)


Neuwirth, H., "Some Results of Investigations in Air Chemistry in Connection With Atmospheric Turbulence," Vol. 11, No. 5, 1958. (AD-237678) *(TILS, Tr. 5005)

Regula, W., "A Scale for Measuring Advection," Vol. 5, Nos. 3-4, 1952. *


**METEOROLOGY AND STATISTICS (Japan)**


**METEOROLOGICKE ZPRAVY**


Drogaitsev, D. A., "Long Range Prognosis of Precipitation in Czechoslovakia," No. 4-5, 1958. (OTS, Tr. JPRS/L-1691-D)


**METEOROLOGISCHE ZEITSCHRIFT**


Letzmann, J., "Cumulus Pulsations," Vol. 47, 1930. (AD-218215) *


USSR, "In the Soviet IGY Committee," No. 5, 1958. (CTS, Tr. JPRS 454-D)

USSR, "Information of the Soviet Committee of the IGY on the Fulfillment of the Program for Upper Atmosphere Rocket Research During the Main IGY Period (1957-1958)," No. 8, 1960. (OTS, Tr. JPRS 9222)


Selected Articles, No. 1, 1958.* (OTS, Tr. JPRS 852-D)

Contents:


Eygenson, M. S., "On Solar Control of the Rotary Motion of the Earth," pp. 16-37.


MIKROBIOLOGIYA

Vlodavets, V. V., and MatSs, L. I., "Characteristics of Air-Borne Microflora in the Atmosphere of the City of Moscow, Taking Into Account the Influence of Meteorological Factors," Vol. 28, No. 4, 1959. (USDA)

MITTEILUNG DER UNIVERSITATS-STERNWARTE BONN


MITTEILUNGEN DER STERNWARTE DER UNGARISCHEN AKADEMIE DER WISSENSCHAFTEN

30 September 1961

**MONATSHETTE FUR MATHEMATIK UND PHYSIK**


**MORSKII FLOT**


Sychev, K. A., "Three Years of Drift of the Floating Ice Island North Pole-6," Vol. 19, No. 4, 1959. (AD-236581) *


**MOSKVA**

Belotserkovskiy, V., "Three Days in the Flight With Clouds," No. 9, 1958. (OTS, Tr. JPRS 2412)

**NACHRICHTENTECHNIK**


**NATURWISSENSCHAFTEN**


**NAUK DOKLADY VYSSHEJ SHKOLOY**

Zemtsov, A. A., "Distribution of Permanently Frozen Rocks in Western Siberia," No. 3, Jul/Sep 1958. (OTS, Tr. JPRS/L-1699-D)


Nguyen, Xien, "Relationship Between Rainfall in Third Quarter of 1958 and Drought Prevention Programs in North Vietnam," 17 December 1958. (OTS, Tr. JPRS/L-1540-D)


PHAKTTKA AKADAMIA ATHENON

Kephalas, A., "Rainfall Distribution on the Western and Southern Slopes of Central Greece, the Peloponnesus and the Islands of Cephalonia and Zante," No. 3, 1928. (PS)

Kephalas, A., "Rainfall Distribution on Southeast Central Greece and the Peloponnesus," No. 4, 1929. (PS)


PRAKTICKY LÉKAR


PRAVDA

Anonymous: "Details on Sputnik III," 18 May 1958. (OTS, Tr. PB 131632-17)


Krasovskii, V. I., "The Upper Atmosphere and Its Investigation With the Aid of an Artificial Earth Satellite," Oct/Nov 1957. (AD-235829) *


Tretyshnikov, A. F., "Into the Polar Night. A Letter from the Scientific Drifting Station 'North Pole-3'," No. 283 (13216), 10 October 1954. *

USSR, "At the Arctic Drifting Stations," No. 79 (14108), 20 March 1957. *
USSR, "At the Drifting Scientific Station," No. 237 (13170), 25 August 1954. *

USSR, "In the Presidium of the Academy of Sciences of the USSR," No. 119 (13052), 29 April 1954. *

USSR, Summary: "Scientific Research Data Obtained by the Third Soviet Artificial Earth Satellite," No. 278, 5 October 1958. *

Vavilov, V., "High Latitude Flyers," No. 171 (13104), 20 June 1954. *


Selected Articles, Oct/Nov 1957. (AD-159705) * (MA, Tr. RAE-722)

[Anon]: "The Second Soviet Artificial Earth Satellite," pp. 2-4


Reyfer, A. B., "Hydrometeorological Instrument Building," No. 4, 1959. (OTS, Tr. PB 131632-73)


Burkhanov, V. F., "Soviet Explorations of the Arctic," Vol. 46, No. 5, 1957. (DRB, Tr. 265R)


Chirivinsky, P. N., "The First Observers of Ball Lightnings," Vol. 43, No. 8, 1954. (OTS, AEC/SCL-7-233)
Drogaitsev, D. F., "Will the North Get Warmer?" No. 6, 1960. *


Gordienko, P. A., "Arctic Sea Ice Research," No. 9, 1958. (AD-211787) *


Peschanskiy, I. S., "Sun and Ice — New Methods of Speeding Up the Thaw," 7 July 1960. (DM)


Bogorodskii, V. V., "The Ultrasonic Method of Determining Ice Thickness," No. 4, 1958. (AD-220622) *

Chaplygin, E. I., "The Waters of the East Greenland Current," No. 6, 1959. (AD-253556) *

Demin, I. D., "The Influence of the Resolution of a Radar Station on the Accuracy of Determination of Ice Concentration," No. 3, 1958. (AD-220467) *

Denisov, A. S., "Causes of Variation in the Water Temperature of the Nordkapp Current," No. 5, 1958. (AD-253557) *


Fel'dsteiin, Ya. I., "Geographic Distribution of Aurora in the Western Part of the Soviet Arctic," No. 4, 1958. (DRB)
PHOBREY ARKTIKI (Cont’d)

Frolov, V. V., "Recent Investigations in the Soviet Arctic," No. 2, 1957. *(AD-235827)


Iakovlev, G. N., "Thermal Balance of an Ice Cover of the Central Arctic," No. 5, 1958. *(AD-252323)


Isayev, S. I., "The Diurnal Periodicity of Aurora Within the Maximum-Frequency Zone," No. 9, 1940. *(DNH, Tr. 33OR)

Ivanov, V. M., "The Hydrometeorological Regime of the Northern Part of the Atlantic Ocean," No. 4, 1958. *(AD-245746)


Kupetskiy, V. N., "Deep Atlantic Waters as a Cause of Certain Features of the Polar Climate," No. 6, 1959. *(AD-253558)


Meilakh, I. G., "The Question of the Penetration of Arctic Ocean Waters Into the Bering Sea," No. 3, 1958. *(AD-220624)


Mustafin, N. V., "The Ice Floe of Station North Pole-7," No. 5, 1958. *(AD-253555)


Shtokman, V. B., "The Horizontal Expansion of Temperature Anomalies in the Ocean," No. 5, 1950. *(AD-226781)
PROBLEM ARKTIKI (Cont'd)

Syshev, K. A., "The Drifting Ice Island of Station North Pole-6," No. 5, 1958. (AD-246342) *

Syshev, K. A., "366 Days Adrift on a Floating Ice Island," No. 4, 1958. (AD-226729)*

Timofeev, V. T., "The 'Age' of Atlantic Water in the Arctic Basin," No. 5, 1958. (AD-252320) *


Vize, V. Iu., "The Drift of Buoys in the Arctic Seas," No. 2, 1944. (PS)


Selected Articles, No. 4, 1958. (AD-226729) *

Contents:


Petrov, I. G., "The End of the Drift of Station North-Pole-4."

Sychev, K. A., "366 Days Adrift on a Floating Ice Island."
PROBLEMY ARKTIKI I ANTARKTIKI


Iakovlev, G. N., "The Heat Flux of Evaporation From the Surface of the Ice Cover in the Central Arctic," No. 1, 1959. (AD-251866) *


Lozchilov, V. S., "The Use of Aerial Photography in Ice Reconnaissance to Determine the Mean Thickness of the Ice Cover," No. 1, 1959. (AD-252325) *


PROBLEMY SEVERA

Churkina, N. A., "Drift Buoy Stations in the Central Arctic and in the Arctic Seas," No. 1, 1958. (Navy 2761/HO-75)


Savel'ev, B. A., "Determination of the Age of Arctic Islands (on the Basis of Foreign Research Data)," No. 1, 1958. (AD-236194) *

USSR, "Ice Drift in the Central Part of the Arctic Ocean," 1958. (Navy 2625/HO-7)

PRZEGLAD GEOFIZYCZNY (D. PRZEGLAD METEOROLOGICZNY I HYDROLOGICZNY) (Warsaw)


Rzhiga, O., and Shakhowskoi, A., "Observation of Artificial Earth-Satellite Signals," No. 8, 1957. (AD-161861) *


Glöde, Peter, "Radar Echoes From the Aurora Borealis," No. 13, 1959. *


Quervain, H. de, "Grain Size Analysis of Aged Snow by Means of Sedimentation," February 1948. (US Bureau of Reclamation, Tr. No. 257)

Chang King-Li, "The Structure of the Winter Monsoon and Barometric Field," No. 13, July 1957. *

Anon7: "What the Sputniks Told Us About the Highest Atmospheric Layers," No. 6, 1959.


China7: "A Decade of Hydrological Forecasting Work," No. 10, 1960. (OTS, Tr. JPHS 4427)

SHUKAN ASAHI


SIAPOPROUDY OBZOR


SOKKO JIKO (Japan)

Eizo Maruyama, "Micrometeorology," No. 24, 1957. (FTT, Tr. M-121)

SOVETSKAYA AVIATSIYA

[Anon]: "Aircraft in a Jet Stream," 15 May 1959. (OTS, Tr. JPRS 938-D)

[Anon]: "Descent Through the Clouds From the Given Line," 22 May 1959.

[Anon]: "Preflighting in Frosts and Snow-Storms," 18 February 1959.


Chmykov, V., Summary: "Weather Reconnaissance," 6 October 1959. *


Kondratyuk, K., "In a Cloudy Sky at Night," 14 June 1959. (OTS, Tr. JPRS 938-D)

Osokin, S., "New Soviet Hydrometeorological Research Vessel MS 'A. I. Voyevoyev','" 22 August 1959. *

Sergeyev, M., "Evading Thunderstorms," 19 June 1960. (OTS, Tr. JPRS 3923)


Zhelvakov, Ye., "Descent Through the Clouds From the Given Line," 22 May 1959. *
SOVETSKAYA AVIATSIYA (Cont’d)

Selected Articles, January 1958. *

Most Distant Planets are Not So Far Away, Friends.

Contents:

Gilzin, K. A., "Toward the Other Planets."
Pokrovskiy, G. I., "Let Us Take a Look Into the Future."
Pyshnov, V. S., "Plane and Rocket."
Stanyukovich, K. P., "Before the Assault on the Moon."
Steckkin, B. S., "Soviet Man’s Dreams are Practical."

TEION KAGAKU


TEKNIKA MOLODEZHI


TEORIYA VEROYATNOSTEY I YEYE PRIMEZENIYE


TERMISZETTUDOMANY


TIDSKRIFT MILITAR HALSOVAR (Stockholm)

Liu Kuang-Wen, "Floods and Flood Control," August 1958.* (OTS, Tr. JPRS 2268)


Dobrovitskiy, N., "Mystery of Lightning," No. 293 (12157), 14 December 1960. (AD-258847) * (TIC, Tr. MCL-936/l) (OTS, Price 41.10)


Marshunova, R. S., "Calculation of the Longwave Radiation Balance During an Overcast Sky in the Arctic," Vol. 226, 1959. (AD-251865) *


TRUDY ARKTICHESKOGO I ANTARKTIKHESKOGO NAUCHNO-ISSLEDOVATELSKOGO INSTITUTA (Cont'd)


TRUDY DAL'NEVOSTOKHO NOCH-ISSLEDOVATELSKOGO GIDROMETEOROLOGICHESKOGO INSTITUTA


TRUDY GEOFIZICHESKAL'NOJ OBSERVATORII (TASHKENT)


TRUDY GEOFIZICHESKOGO INSTITUTIA AKADEMII NAUK SSSR


Selected Articles, No. 24, (1951) 1954. * (TIC, Tr. F-TS-9295/V)

Contents:

Krechmer, S. I., "Technique of Measuring Micropulsations of Wind Speed and Temperature in the Atmosphere."

Monin, A. S., and Obukhov, A. M., "Fundamental Regularities of Turbulent Mixing in the Ground Layer of the Atmosphere."

Obukhov, A. M., "A Statistical Description of Continuous Fields."

Selected Articles on Dynamic Meteorology, No. 37 (164), 1956, 181 pp. * (CB)

Contents:


TRUDY GLAVNAIA GEOFIZICHESKAI A OBSERVATORIIA (imeni A. I. Voeikovy)


Barashkova, L. F., "Certain Regularities in the Regime of Total Radiation," Issue No. 80, 1959. * (USWBL); (OTS)


TRUDY GLAVNAIA GEOFIZICHESKAIA OBSERVARORIJA (imeni A. I. Voikova) (Cont'd)


Chang Chi-Chia, "Perennial Variation of Certain Meteorological Elements and the Recurrence of Typhoons Over China and Their Connection With Epochal Transformations of , C, and E Forms," Issue No. 90, 1960. *(OTS, Tr. JPRS 9141)

Chang Chi-Chia, "Perennial Mean Characteristics of Atmospheric Circulation and the Weather Regime Over China During the Summer Months," Issue No. 90, 1960. *(OTS, Tr. JPRS 9140)

Chang Chia-Ch'eng, "Perennial Mean Characteristics of Certain Meteorological Elements and the Circulation Over China During the Winter Months," Issue No. 90, 1960. *(OTS, Tr. JPRS 9138)

Dubov, A. S., "Calculation of the Ground Friction in the Prognosis of the Pressure Field Near the Earth," Issue No. 71, 1957. *(OTS, Tr. JPRS/NY-L-318)

Dubov, A. S., and Orlova, L. S., "Results of the Prognosis of Pressure Field Near the Ground and Map of Baric Topography by the Graph-Analytical Method," Issue No. 71, 1957. *(OTS, Tr. JPRS/NY-L-316)


Grishchenko, D. L., "Radiant Energy From the Sun Penetrating Into the Sea," Issue No. 68, 1957. *(OTS, Tr. JPRS/NY-L-328)


Kolokolov, V. P., "Thunderstorm Activity and the Radar Characteristics of a Cloud," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2852, Price $4.50, extra copies $0.75)


Makhotkin, L. G., "Change in the Charges on Drops During Evaporation," Issue No. 97, 1960. (ATS, Tr. RJ-2382, Price $4.25, extra copies $1.25)

Makhotkin, L. G., "Regularities in the Change of Scattered Radiation of Cloudless Skies," Issue No. 80, 1959. *


Nikandrov, V. Ya., "Choosing the Optimum Amount of Solid Carbon Dioxide for Modifying a Cloud," Issue No. 67, (129), 1957. (ATS, Tr. RJ-2857, Price $18.50, extra copies $2.55)


Petrov, V. P., et al., Summary: "New Bridge-Type Automatic Telemetering Meteorological Station," Issue No. 103, 1960. *


Ter-Markaryants, N. Ye., "Relationship of the Coefficient of Reflection of Water to the Length of Incident Light Waves," Issue No. 68, 1957. (OTS, Tr. JPRS/NY-L-328)
Ter-Markaryants, N. Ye., "Reverse Scattering of Radiation by the Sea," Issue No. 68, 1957. (OTS, Tr. JPRS/NY-L-328)

Tkachenko, A. V., "Convective Power and Its Utilization in Local Forecasting," Issue No. 69, 1957. (DSIR, Tr. LLUM-1515)


Xaen, N. I., "Prognosis of the Pressure Field by the Computation Method," Issue No. 71, 1957. (OTS, Tr. JPRS/NY-L-315)


Chistyakov, A. D., "The Forecast of Temperature and Wind in the Upper Troposphere and Lower Stratosphere," No. 2, 1958. (OTS, Tr. JPRS 5201)


Nepomnyashchii, S. I., "Aircraft Dropsondes," No. 5, 1957. (OTS, Tr. JPRS/L-1384-D)

Shtein, N. I., "Calculation Peculiarities of Radio Transmitters Used in Certain Meteorological Apparatus," 1957. (SLATC, Tr. AEC/SCL-T-258)


Varshenevskiy, N. S., Excerpts: "Film-Type Indicators of Humidity," No. 5, 1957.
TRUDY NAUCHNO-ISSELELOVATELSKIH UCHREWZHDENII, USSR GLAVNOI UPRAVLENII
GI0ROMETEOROLOGICHESKII SLUZHEBY

Seria 2. Sinopticheskaia Meteorologia

Buz, A. I., "The Question of the Determination of the Importance of Convective
Motions by the Layer Method," 1958. (BMOL, Price 12/-)

TRUDY SREDNEGO AZIATSKOGO NAUCHNO ISSSELELOVATELSKOGO
STVO GIDROMETEOROLOGICHESKOGO
INSTITUTA

Litvinova, L. Ye., "Forecasting Strong Gales on the Aral Sea," No. 1, 1959. (OTS, 
Tr. JPRS 9031)

TRUDY TBILISSKOGO NAUCHNO ISSSELELOVATELSKOGO GIDROMETEOROLOGICHESKOGO
INSTITUTA

Bartishvili, I. T., "On Methods of Measuring Precipitation in Mountain Conditions," 
No. 2, 1957. (DSIR)

TRUDY TSENTRAL'NOI AEREOLOGICHESKOI OBSERVATORII (Moscow)

Kostarev, V. V., "Experience in Radar Troposphere Sounding," No. 20, 1958. (ATS, 
Tr. RJ-2846, Price $17.95, extra copies $3.45)

Muchnik, V. M., "Detection of Thunderstorms and Rainstorms by the Radar of a Storm
Identification Station," No. 20, 1958. (ATS, Tr. RJ-2845, Price $12.65, extra 
copies $1.45)

No. 20, 1958. (ATS, Tr. RJ-2844, Price $9.00, extra copies $1.70)

Polovina, I. P., "The Accuracy of the Calculation of Specific Humidity From
LUM-1935)

Repeev, A. I., "Properties of the Upper Atmosphere and Artificial Earth Satellites," 
No. 25, 1959. (OTS, Tr. JPRS 7486)

Reshetov, V. D., "Analysis of Two Cases of Cyclo- and Anti-cyclogenesis," No. 23, 
1957. (OTS, Tr. JPRS/L-1804-D)

Reshetov, V. D., "Concerning Radiational Overheating of the Comb Radiosonde and

Seregin, Yu. A., "The Dissipation of Supercooled Fogs From the Ground by a Silver
Iodide Aerosol," No. 19, 1958. (OTS, Tr. PB 131632-142)

No. 22, 1957. (TIC, Tr. MCL-395/1)
Shupyatskii, A. B., "Radar Measurement of the Mean Drop Size and the Water Content in Heavy Rainstorms," No. 20, 1959. (ATS, Tr. RJ-2848, Price $13.80, extra copies $1.85)


Stepanenko, V. D., "Improving the Meteorological Target Detection Efficiency of the 'Kobalt' Radar," No. 20, 1958. (ATS, Tr. RJ-2847, Price $8.45, extra copies $1.70)


Zajcikov, P. F., "Results of Aerological Observations at Drifting Station S-4 (C-4) at the Time of the 1949 Expedition," No. 22, 1957. (DSIR, Tr. LLUX-1936)

Selected articles, No. 25, 1959. * (OTS, Tr. JPRS 7487/88/89)

Contents:


Biryukova, L. A., "Experiment in Determining the Brightness of the Sky Up to an Altitude of Sixty Kilometers."

Izakov, K. N., and Chizhov, A. F., "Study of the Temperature Coefficient of Resistance and the Tensiometric Coefficient of Tungsten Used in the Special Thermometers and Manometers at the Central Aerological Observatory."

TRUDY TSENTRAL'NOGO INSTITUTA PROGNOZOV (Moscow)


THUDY TSENTRAL'NOGO INSTITUTA PROGNOZOV (Moscow) (Cont'd)


Sadokov, V. P., and Dobryshman, E. N., "Concerning the Solution of the Equation Describing Perturbations in the Field of a Gradient Wind," No. 43, (70), 1956.* (OTS, Tr. JPRS 5207)


THUDY UKRAINSKOGO NAUCHNO ISSLEDOVATELSKOGO GIDROMETEOROLOGICHESKOGO INSTITUTA

Gavrilenko, N. M., "Some Peculiarities of the Forecasting of Visibility During Low-Altitude Snowstorms in the Ukraine," No. 12, 1958. (OTS, Tr. PB 131632-74)


Volevakha, N. M., and Volevakha, V. A., "On the Possibility of Predicting the Onset of Intensive Icing," No. 21, 1958. OTS, Tr. PB 131632-74)
TRUDY UKRAINSKII NAUKHO ISSLEDOVATELSKII INSTITUT


UCHENYE ZAPISKI LENINGRADSKII Gosudarstvennyi Universitet, Serii Geograficheskikh Nauk


UKRAINSKYI FIZICHNYI ZHURNAL


UNIVERSITAT MUNCHEN, METEOROLOGISCHES INSTITUT, ABHANDLUNGEN


USPEKHI ASTRONOMICHESKII NAUK


USPEKHI FIZICHESKII NAUK


USPBYEKHI FIZICHESKIH NAUK (Cont'd)


VAZDUHOPLOVNI GLASNIK

Markovich, Radovin, "Radiosonde and Radar in Meteorology," Vol. 9, No. 3, 1953.* (TIC, Tr. F-TS-8331/V)

VEROEFFLNTLICHUNGEN DER STERNWARTE IN BABELSBerg


VestiNik AKADEMii NAUK SSSR


Belousov, V. V., Tectonophysics: "A Promising New Orientation in Geology," Vol. 28, No. 9, 1958. * (DRB, Tr. 31OR)


VESTNIK AKADEMII NAUK SSSR


Krinov, Ye. L., "Researches in the Field of Meteoritics," No. 2, 1957. (AD-204505)* (URB, Tr. 2468)


Pariiski, N. N., "Earth Tides and the Earth's Inner Structure," No. 6, 1960. (ATS, Tr. RJD-2833, Price $1.45, extra copies $2.35)


Tumanov, I. I., "Artificial Climate Stations," No. 10, 1957. (ATS, Tr. RJD-2865, Price $9.95, extra copies $1.95)

VESTNIK AKADEMII NAUK KAZAKHSKOY SSSR (Alma Ata)

Fesenko, V. G., "Some Results of Investigation According to the IGY Program," No. 6, 1959. (OTS, Tr. JPRS 2092-N)


VESTNIK LENINGRADSKOGO UNIVERSITETA

Eskin, F. I., "The Influence of Atlantic Waters on the Upper Levels of the Arctic Seas," No. 6, 1960. (AD-248541) *


Bedariyofu, P. K., "The Industrial Data of North Manchuria," No. 17, 1933. (USWBL)


Mikhaylovskiy, A. V., "Determining the Ballistic Wind for Bombing." . . .


Selected Articles, No. 20, (27), 1957. *(OTS, Tr. 60-11,456, Price $2.50)

Contents:


Feklushin, V. A., "Observations of the Passage of Radiowave During the Total Eclipse on 30 June 1954, pp. 88-90.


30 September 1961

TMER

Thoren, Ragnar, "Photographic Reconnaissance and Interpretation of Sea Ice in the Arctic," No. 4, 1958.

ZEITSCHRIFT FUR ANGEBWANDTE PHYSIK

Nauer, H., "Model Tests on Ball Lightning," No. 5, 1953. (OTS, Tr. AEC/SCL-T-246)


ZEITSCHRIFT FUR ANGEBWANDTE PHYSIK, EINSCHLIESSLICH NUKLEONIK


ZEITSCHRIFT FUR ASTROPHYSIK


ZEITSCHRIFT FUR THERMOMETERKUNDE

Adam, J., "Determination of Exposed-Stem Correction for Mercury Thermometers by Means of the Stem Thermometer," Vol. 27, No. 4, 1907. (DSIR, Tr. 32420/CT)


ZEITSCHRIFT FUR METEOROLOGIE


Klinker, L., "Further Results of Tropospheric Drift Observations With Regard to the Question of the Mechanism of Long-Range Propagation at Meter Wavelengths," Vol. XI, Nos. 10-11, 1957. (AD-236572) *


Rodewald, M., "Ball Lightning Observations," Vol. 8, 1954. (OTS, Tr. AEC/SCL-T-212)


Glebov, A., and Vyalov, S., "Five Million Atmospheres Where it is Coldest of All," September 1958. (OTS, Price 40.75)

LIST OF TRANSLATIONS ON METEOROLOGY
AND ATMOSPHERIC PHYSICS
PART TWO
NON-SERIAL PUBLICATIONS

FOR OFFICIAL USE ONLY

UNITED STATES AIR FORCE
Aizenshtat, B. A., see Budyko, H. I., Contemporary Problems ....


[Anon]: Meteorological Theories and Methods in Germany and Their Historical Development. Transl., from German, 1945? 19 pp. (ATI-113185) *

[Anon]: Military-Geographic Study of Turkey. (Militärgeographische Angaben über Turkey.) Berlin, circa 1943. Transl., 16 pp. *


Beelitz, Paul, (U) Discussion of Russian Radiosonde Use by Occupation Forces in East Germany. May 1959. Transl., 4 pp. (C) *
Contents:


Budyko, M. I., Contemporary Problems.....


Chaplygin, Ye. I., Study of Marine Currents and Ice Drifts With the Aid of Automatic Drifting Radio Beacons. Rukovodstvo po Nabлюдениям nad Techeniyami, 1957, pp. 152-176. (OTS, Tr. JPRS/L-1640-D)


Davitaia, F. F., see Budyko, M. I., Contemporary Problems......


Fuks, N. A., The Mechanics of Aerosols. Translated from Russian by MSP E. Lachowicz, Army Chemical Center, Maryland, U.S. Army Chemical Warfare Laboratories, 1958, 449 pp., diagrams, tables, 28 cm. (GWL Special publications 4-12) *


Gal'tsov, A. P., see Budyko, N. I., Contemporary Problems.....


German.: Flight Climatic Survey of Turkey, Caucasus, and the Northern Parts of Syria, Iraq, and Iran. National Office for Weather Service, German Air Force, 1942, 22 pp. Transl., by Hq AMS. *


Gol'tsberg, I. A., see Budyko, M. I., Contemporary Problems.


Grachev, A., Shelterbelt. Lesopolosa Kamysin-Stalingrad, 1957. *(OTS, Tr. 60-51079 PL-480)*

Gromova, L. F., Some Data on the Frequency of Noctilucent Clouds in the Western Part of the USSR Territory. Mezhdunarodnyh Geofizicheskiy God, Sbornik Statey i Materialov, 1960, pp. 5-11. *(OTS, Tr. JPRS 9174)*


Inoue, E., *Distribution of Atmospheric Pressure and Weather in the Vicinity of Japan.* Transl., 1942, 64 pp. (ATI-113103)


Japan: *Meteorological Documents.* Allied Translation and Interpreter Section, South Pacific Area, Enemy Publ. No. 107 (K-62299), 27 March 1944, 93 pp. (ATI-113198) (USWB)


Japan: *Meteorological Phenomena and Tidal Currents in the South China Area.* Transl., PACMILS, No. 22, 10 November 1945, 157 pp. (ATI-113181) (USWB)

Japanese:


[Japan]: The Weather in the Marshalls for 1943 With Roi Island as the Center.
Translation of captured document, April 1944, 20 pp. including charts. *


Khokhlov, P., Microclimate on Ships. Atomnya Energiya i Flot, Moscow, Military Publication House, 1959, pp. 147-150. (OTS, Tr. JPRS 3044)


Koschmieder, Harald, Some Preliminary Results of Squall Observations in Germany in 1939-41. (Einige erste Ergebnisse der deutschen Boenmessungen 1939-41.) Received in manuscript form, later published as Ergebnisse der deutschen Boenmessungen 1939-41. I. Kleinraumig-synoptische Darstellung der Boen. Braunschweig, Vieweg, 1955, 86 pp. Transl., AMS for GRD.


Kucherov, N. V., and Sternzat, M. S., see Budyko, M. I., Contemporary Problems.....

Kurasius, S., Excerpts from: Sea Ice Observations and Drift-Ice Movement Prediction. Transl., 19 February 1960, 4 pp. (Typeset) (Reproduced) *

Lakitman, D. L., see Budyko, M. I., Contemporary Problems....


Michitaka, Uda, On the Variation of Water Temperature Due to the Passage of Typhoon. (Navy/ONI 5103, 1955)


Misme, Pierre, The Correlation Between the Electric Field at a Great Distance and
a New Radio-Meteorological Parameter. (Corrélation entre le Champ Électrique
à Grand Distance et un Nouveau Paramètre Radio-Météorologique.) National Bureau
of Standards (NBS) Report No. 5530. Translation by N. C. Thompson, Jr., and
Ang Fails, October 1957, 28 pp. incl. illus. (In cooperation with Centre National
d'Études des Télécommunications) (French and English text). (AD-157024)

Monakhov, F. I., et al., Seismic and Microseismic Observations at the Soviet Stations
During the International Geophysical Year. (Seismicheskie i mikroseismicheskie
nabliudeniia na sovetskikh stantsiakh v period MGG.) Izdatel'stvo Akademiia
Nauk SSSR, 1959. Transl. by Judith I. B. Danner, ARS for GRD, December 1959,
42 pp. incl. illus. tables. (AD-233287)

Mulyarchik, T. M., Experiment in the Interferometric Investigations of the Emission
Lines in Aurorae. (Opyt interferometricheskogo issledovaniia emissonnykh linii
v polairnykh sianiiakh.) In: "Spectral, Electrophotometric and Radar Research
on Aurorae and Night Airglow." Transl. by John Miller, ARS for GRD, July 1959,
pp. 55-56. (AD-228193)

Nimura, S., and Yoshida, Y., Abstract: Reports of Sea Ice Observation of the
No. 8, 1959, pp. 464-481. Tokyo Ministry of Education, references in Japanese,
English abstract. (BMOL)

Myukhkyurya, V. I., An Electrophotometer for Measuring the Intensity and Polariza-
tion of Light Scattered by Cloud Particles. Report from: "Mezhvedomstvennaya
Konferentsiya po Voprosam Issledovaniia Oblakov, Osadkov i Grozovogo Elektri-

Nasilov, D. N., Radiometerology. (Radiometreologiya.) State Publishing House
for Technical and Theoretical Literature, Moscow, 1956, 215 pp. (TIC, Tr. F-TS-
9818/V)

Nikandrov, V. Ya., Action of Solid CO₂ on Supercooled Clouds and Fogs. From:
RJ-2863, Price $24.60, extra copies $4.40)

Nikandrov, T. Ya., see Budyko, M. I., Contemporary Problems....

(Osnovnyye Ponyatiya i Terminy Geokriologii, Merzlotovedenia.) Izdatel'stvo
Akademiia Nauk SSSR, 1956. Transl., Research and Development Laboratory, Corps
of Engineers, U. S. Army. (AD-238777)

Obukhov, A. M., see Budyko, M. I., Contemporary Problems....

Ostroumov, G. A., Free Convection Under the Conditions of the Internal Problem.
(Svbodnaya Convectaia v Usloviakh Vnoutrennei Zadachi.) State Publishing
House, Technico-Theoretical Literature, Moscow, 1952. Transl., April 1958,
233 pp. (AD-156846) (NASA, Tr. TM-1407)


Rusin, N. P., see Budyko, M. I., *Contemporary Problems* ....


Svyatlovskiy, A. Ye., Tsunami: Destructive Waves Caused by Submarine Earthquakes in Seas and Oceans. (Tsunami; Razrushitel'nyye Volny v Voznikayushchye pri Podvodnykh Zemletryaseniyakh v Moryakh i Oceanakh.) Translation 1957, 70 pp.


Tatarskiy, V. I., Theory Fluctuating Phenomena in the Propagation of Waves in a Turbulent Atmosphere. (Teoriya Fluktuationnykh Yavlenniy pri Rasprostranenii Voln v Turbulentnoy Atmosfere.) 1959, pp. 3-232. (OTS, Tr. JPRS 5174)

Temnikova, N. A., The Climate of the Northern Caucasus and the Contiguous Steppes. (Klimat Severnogo Kavkaza i prilezhashchikh stepey.) Main Administration for Hydrometeorological Services Under the Council of Ministers USSR, Gidrometeorologicheskoye Izdatel'stvo, 1959, Leningrad. (OTS, Tr. JPRS/R-1243-D)
Ter Meulen, C. L., Tidal Movements in the Rivers of Zeeland and Southern Holland, Summarized in 12 Charts, One for Each Hour of Tide and Supplemented with Notes. (De Getijde-Bewegingen op de Zeeuwsche en Zuidhollandsche Stroomen Samengevat in 12 Kaartjes, voor ieder uur van het getij een en voorzien van aanteekingen door.) Published by Bureau for Inland Water Travel of the A.N.W.B. Toeristenbond for the Netherlands and of the Royal Assc. of Netherlands Watersport Clubs. Keizersgracht. Transl. by Weather Research Center, Hq AAF, August 1942, 54 pp. plus charts.


Timofeev, M. P., Contemorary Problems.....

Timofeyev, V. T., Water Masses of the Arctic Basin. Published by Hydrometeorological Publication House, Leningrad, 1960, pp. 1-192. (Navy 7279/10-118)

Troll, Carl, Structure Soils, Solifluction, and Frost Climates of the Earth. (Strukturboden, Solifluktion, und Frostklimate der Erde.) Transl., October 1958, 121 pp. incl. illus. tables, 416 refs. (RD-211333) * (USACRR, Tr. No. 43)

Tsesevych, V. P., First Results of the International Geophysical Year. (Pershi Pidsumky Nizhnarodnogo Geofizychnogo Roku.) 1959. (OTS, Tr. JPRS 6629)


USSR, Geography of the Snow Cover. (Geografija Snezhnoy Pokrov.) Transl., 333 pp.

USSR, Physics of the Lowest Layer of the Atmosphere and the Atmospheric Turbulence. (Fizika Prizemnogo Sloya Atmosfery i Atmosfernaya Turbulentnost'). 1957. (OTS, Tr. AEC/SCL-T-264)


USSR, Results of Observations of Soviet Artificial Earth Satellites 16 May-30 June 1958. (Rezult'taty Nablyudeniy Sovetskikh Iskusstvennykh Sputnikov Zemli 16 May-30 June 1958.) (OTS, Tr. JPRS 658-D, Price $0.75)

USSR, Scientific Work in Meteorology. (Soobshcheny o Nauchnykh Rabotakh po Meteorologii.) Moscow, 1957, pp. 3-51. (OTS, Tr. JPRS/DC.L-972)


Al'pert, Ia. L., "Certain Questions of the Statistical Irregularity of the Ionosphere."


Grishkevich, L. V., et al., "Results of Investigations of Ionospheric Irregularities and Their Drifts, Obtained at Soviet Stations During the IGY."

Kessenikih, V. N., "Possible Mechanisms of the Connection Between the Synoptics of the Ionosphere and the Troposphere."
USSR, Selected Articles from: *The Physics of Solar Corpuscular Streams and Their Influence on Upper Atmosphere of the Earth.* Izdatel'stvo Akademii Nauk SSSR, 1957. (AD-236576) * Contents:

Isaev, S. I., "Hydrogen Radiation in the Spectrum of Polar Aurorae."

Mogileskii, E. L., "The Equation of Quasistationary Ionization Equilibrium in the F2 Region and Solar Corpuscular Radiation."

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Dzhordzhio, N. V., "Electrophotometric Measurements in the Auroral Zone."


Prokudina, V. S., "Observation of Line λ 6562 Å in the Night Sky Spectrum."

Shuiskaia, F. K., "Some Results of the Spectroscopic Study of Aurorae and Airglow."

USSR, *Structure and Physical Properties of the Ice Cover of Fresh Water Bodies,* 1936. *


Vorontsov, P. A., see Budyko, M. I., Contemporary Problems....

Watanabe, T., and Hirano, T., An Attempt to Predict the Surface Temperature of the North-Eastern Sea Adjacent to Japan for the Summer. Transl., 1955. (Navy/ONI 5103468)


Zubov, W. N., Index of Atmospheric Turbulence, Chapt. VIII. (O pokazatele
nespokoinosti atmosfery); The Interaction of Sea and Atmosphere, Chapt. XII.
(K voprosu o vzaimodeistvii moria s atmosferoi); Some Features of Evaporation in
the Sea, Chapt. XXVIII. (Nekotorye osobennosti isparenia v more.) Selected
papers in Oceanography (on the author's 70th Birthday). (Isbrannye trudy po
okanologii k 70 letiiu so dnia rozhdeniia avtora.) Voennoe Izdatel'stvo
Ministerstva Oborony Sovyuza SSR, 1955, pp. 171-176, 204-214, 443-456. Tr. 1sl.,
February 1960, 28 pp. (AD-238322) *

Zuev, M. V., see Budyko, M. I., Contemporary Problems.....

Zverev, A. S., Synoptic Meteorology. (Sinopticheskaya Meteorologiya.) Part I of
2 Parts, Chapt. 1-6, pp. 1-394; Chapt. VII-IX, of Part II, pp. 395-689. Tr. 1sl.,
April 1960, * (TIC, Tr. F-TS-9817/V)

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