"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

MIKHAYLOV, A.A., otv.red.; ZVEREV, M.S., red.; KULIKOVSKIY, P.G., red.; MASEVICH, A.G., red.; MUSTEL, E.R., red.; SOBOLEV, V.V., red.; SUBBOTIN, M.F., red.; SAMSONENKO, L.V., red.; TUMARKINA, H.A., tekhn.red.

> [Astronomy in the U.S.S.R. during forty years 1917-1957; collected articles] Astronomia v SSSR sa scrok let. 1917-1957; sbornik statei. Red.kollegiia: A.A.Mikhailov i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 728 p.

> > (Astronomy--History)

(MIRA 13:7)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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ZVEREV. N. I.: KRESTOV, B.D.; ENG. CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

- 2. USSR (600)
- 4. Ash Disposal
- Rab. energ. 2 no. 10, 1952 7. Apparatus VTI for washing out ashes.

1953. Unclassified. Monthly List of Russian Accessions, Library of Congress, January

APPROVED FOR RELEASE: Thursday, September 26, 2002

1. ZVILLY, 1. 1. 2. USSR (600)

4. Dust - Removal

7. Dust collector model VTI. Elek. sta. 23 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

APPROVED FOR RELEASE: Thursday, September 26, 2002
TVEREY, N. I. kandidat teknniches/12kh
Galculation of the suction flue of baffle-type fly-ash collectors.
Teploenergetika 2 no.5:444-449

1. Vsesoyuznyy teplotekhnicheskiy institut
(Dust collectors)

AID P - 2328

USSR/Electricity Subject

Pub. 110-a - 9/17 card 1/1

Zverev, N. I., Kand. of Tech. Sci. Author

Computing the outlet pipe of a screen-type ash catcher 44-49, My 1955 Title

: Teploenergetika, 5, Periodical

A mathematical analysis for designing a screen-type ash catcher equipped with an ejector is presented with tables, curves and equations. Five diagrams. Abstract

All-Union Heat Technology Institute Institution:

No date Submitted

AUTHOR:

Zverev, N.I., Candidate of Technical Sciences.

Modelling the motion of poly-disperse dusts.

TITLE:

(Modelirovanij) dvizheniya polidispersnoy pyli.)

PERIODICAL:

"Teploenergetika" (Thermal Power), 1957, Vol.4, No.7, pp. 35 - 38 (U.S.S.R.)

ABSTRACT:

In a previous article the author showed that there are five criteria that characterise the steady motion of dusty gas or liquid. Two of these criteria include the diameter of a dust particle. Consequently these criteria are only applicable to mono-disperse dusts (that is dust consisting of particles of one size only) In practice we have to deal almost exclusively with poly-disperse dusts, that is dusts consisting of particles of many sizes. At low dust concentrations when the motions of different fractions do not interact on one another modelling may be effected by sub-dividing the poly-disperse dust into a number of narrow fractions and using corresponding fractions in the model. However, this procedure is very laborious and is quite inapplicable at high concentrations. Neither is it permissible to introduce some sort of mean

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Modelling the motion of poly-disperse dusts. (Cont.)

diameter into the criteria since in order to choose the diameter correctly it is necessary to know in advance the function that it is required to find.

All this severely limits the possibilities of modelling for the study of industrial equipment and, therefore, it is necessary to find additional conditions of

similarity of motion of poly-disperse dusts.

The similarity of motion of two dust flows is then considered. During the course of the examination the dimensions of the dust particles are expressed as a ratio of a dimension which is characteristic for the given dust so that the diameter of the particle is expressed by a dimensionless number. It is then shown that in two systems with identical criteria consisting of characteristic dimensions all the dust particles with identical dimensionless diameters have certain criteria in common. As a result of the examination additional criteria are in effect introduced for polydisperse dust.

In order to ensure complete similarity all five main criteria should be the same for both model and

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Modelling the motion of poly-disperse dusts. (Cont.)

specimen. This is often difficult and sometimes impossible to achieve. It is therefore desirable to cut down the number of criteria and the various ways in which this can be done are considered. It is shown that simplification is possible when the range of concentration is from 0.05 to 0.1 kg/kg, or if the force of gravity is negligible compared with the inertia forces. This latter point can be cleared up by using the test equipment in different positions, for example, if its performance does not change when it is inverted, gravity may be ignored. It is shown that when modelling on the basis of three criteria the gas speed, disperseness and density of dust in the model are fully defined and cannot be selected arbitrarily. Therefore, this is the most difficult case of modelling. When modelling by two criteria two scales are fixed and one is arbitrary. Still further simplifications are sometimes

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When the necessary scales have been found the necessary dust density is determined, then the best available material is chosen, and then if the density is

Modelling the motion of poly-disperse dusts. (Cont.)

not quite of the value required the remaining scales are altered somewhat. The various degrees of fineness required in the model dust are calculated and the material is milled in a laboratory mill. Sieve analyses are made during the course of milling until most of the dust is of the required composition. If the dust contains an excess of fines or coarse particles these are removed by appropriate sieves. A quantity of 100 - 200 grams of dust is usually necessary for tests on laboratory models and the quantity of dust required for a complete series of tests does not exceed 2 - 3 kg. In practice it is not difficult to produce such a quantity of dust of a required composition and in any case it is easier than preparing a larger quantity of close fractions.

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There are # figures and 2 references, 1 of which is Slavic.

ASSOCIATION: All-Union Thermo-technical Institute (VTI)

AVAILABLE:

90-3-10/26

AUTHOR:

Ignat'yev. V.I. (Engineer) & Zverev, N.I. (Cand. Tech. Sci.)

TITLE:

The flow of dusty gas round a cylinder (Obtekaniye tsilindra

zapylennym guzom.)

PERIODICAL:

Teploenergetika, 1958,

No.3. pp. 36-40 (USSR)

ABSTRACT:

There are many processes in which dusty gas flows round a cylinder. Of the total number of particules that pass through a cross-sectional area equal to that of the cylinder, but a considerable distance in advance of it, only a proportion reach the surface of the cylinder and the remainder pass by. The ratio of those that touch the cylinder to the total number was determined in this work for various conditions and the distribution of the dust over the surface of the cylinder was studied. The experimental device consisted of a vertical channel of 500 x 50 mm section. The test cylinder was located at the centre of the section, parallel to the short side, at a distance of 45 hydraulic diameters from the inlet. Flow was always turbulent at the position of the cylinder. Arrangements were made to ensure that the conditions of air flow over the cylinder approximated to those in a boundless flow. The other experimental conditions are described. The tests were carried out with fractions of milled anthracite and metal dust (an alloy of chronium and iron) with specific gravities of 1.655 and 7.3 gram/cm2 respectively. fractions were prepared in air separators. The procedure of preparation is described. The characteristics of the fractions in

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The flow of dusty gas round a cylinder.

96-3-10/26

respect of the velocity at which they fly ( pick-up speed ) and hydraulic diameter (the diameter of a sphere with same density and pick-up speed) are tabulated. Dust for the tests was poured into a tube and blown into the collector by a strong yet of air from a needle valve. It was shown by special tests that with this method of delivery the suspension broke up into individual dust particles, uniformly distributed over the working section. In order to determine the proportion of dust trapped on the cylinder the cylinder was wrapped round with a ring of cinefilm 10 mm wide smeared with petrolatum, which trapped all the dust particles that touched it. The film was then compared with a transparent scale under a microscope. Various experimental procedures were used and are described. Mine series of tests were made with downward flow, anthracite dust being used in Nos.1 - 7, and metal dust in Nos. 8 & 9. Speeds of around 2, 4, 12 & 16 m/sec were used with cylinders of 12, 25 & 50 mm diameter. In each series of tests the finest fractions were used first followed by the coarser. The tests were made at room temperature and pressure. When Reynolds number for the particles is less than 0.1 the resistance to the medium acting on the particles is given by the Stokes' formula, and the St criterion defines the motion. When Reynolds number for the particles is greater than 0.1 Stokes' formula is inapplicable and motion is not uniquely governed by the

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St criterion. Frevious authors have given the proportion trupped as a unique fraction of St, usually there was a considerable scatter of points and considerable difference between the general relationships obtained by different authors. This was probably because in the experiments, Reynolds number was not low enough and instead of a unique relationship between the proportion of particles trapped and St there should have been a family of curves. The authors' test results are given in Fig.1. The accuracy of the determinations is such that a family of curves can be plotted. Then the particles move in a vertical flow their relative velocity at a distance from the cylinder is practically equal to the speed of pick-up, but the velocity increases near the cylinder. In the majority of tests the Reynolds number was greater than 0.1 even in the part remote from the cylinder. Therefore, in most of the tests the resistance factor according to Stokes' law was not determined. When particles move in a vertical flow their trajectory and the proportion trapped may also depend on gravitational force. To check this point, two additional series of tests were made with authracite dust and rising air flow at speeds of 2 and 16.6 m/second. In these tests the axial components of inertia and gravity forces were opposed so that if gravitation was important the proportion trapped should be less than in the first scries of tests. The results of the tests given in Fig. 2. confirm that this was so. This applies even to the

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The flow of dusty gas round a cylinder.

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finest of particles for which the air speed was far above the pick-up speed. Dimensionless curves of the distribution of trapped dust over the cylinder surface are of quite a different character with upward and downward flow as will be seen from Fig. 3. Therefore, gravity has a marked effect on the process. An additional criterion D is introduced that, together with the criterion St, determines the probability of particles hitting the cylinder with a downward flow of air. Fig. 6. gives curves of the distribution of trapped dust on the surface of the cylinder with a downward flow of air. There are 7 figures, 1 table and 10 literature references (6 Russian and 4 English)

ASSOCIATION: All-Union Ther Mo-Technical Institute. (Vsesoyuznyy Teplo-AVAILABLE: Library of Congress. tekhnicheskiy Institut).

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ACCESSION NR: AT4040568 -

5/2546/64/000/135/0063/0090

AUTHOR: Zverev, N. 1.

TITLE: Waves in the atmosphere

SOURCE: Moscow. Tsentral'nywy institut prognozov. Trudyw, no. 135, 1964. Sinoptii.ostatisticheskiye metodyw prognozov pogodyw (Synoptic statistical methods of weather forecasting), 63-90

TOPIC TAGS: meteorology, weather forecasting, atmospheric circulation, atmospheric wave, periodogram

ABSTRACT: On the basis of a review of the extensive bibliography, the author analyzes the literature dealing with wave processes in the atmosphere and describes the statistical methods of periodogram analysis used by various authors for detecting large-scale waves. It is shown that the statistically detected waves can be used for forecasting atmospheric circulation for as much as a month in advance. Particular attention is given to an analysis of pressure and temperature waves in the periods of 5 to 7 days, discovered by a great many investigators. Consideration is given to the methods used by various authors who have found waves with tion is given to the methods used by various authors who have found waves with periods of 12, 17, 25, 11, 13 and 22 days and many others. In each case the author has attempted to determine whether these waves are real or a mathematical card 1/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

ACCESSION NR: AT4040568

fiction, how stable they are if real, and whether they can be extrapolated for a long period. It is concluded that wave processes with periods of 5-6, 8 and 13-14 days are stochast cally real. Contrary to certain other investigators, the author believes that this fact can be used for practical purposes and that the methodology used in earlier attempts was faulty. Three significant formulas are presented which can be used for judging the presence of wave processes in the atmosphere, the most important being a spectral function of the entire process. Examples are cited showing how wave processes in cyclonic and anticyclonic activity at the mean level of the troposphere can be detected. The only period detected simultaneously in both the meridional and zonal air flow components is T = 14 days. It is shown, however, that there is no rigorous periodicity in the atmosphere; the periods of 5, 8 and 14 days are approximations. Recommendations are made for prediction of circulation at the mean level of the troposphere, although only for August, September and October. Only those waves which develop in quasi-stationary pressure systems are of practical value for the forecaster. Orig. art. has: 93 formulas and 6 tables.

ASSOCIATION: Tsentral'nymy institut prognozov (Central Institute of Forecasts)

SUBMITTED: 00

DATE ACQ: 02Ju164

ENCL: 00

2/2 SUB CODE: ES

NO REF SOV: 036

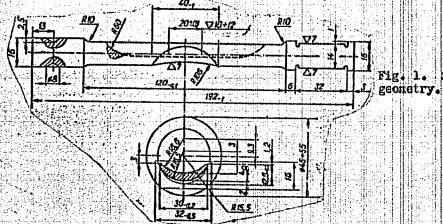
OTHER: 020

	L 14280-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t) IJP(d) JD/HW/GS
-	ACC NR: AT6008666 (N) SOURCE CODE: UR/0000/65/000/000/028/0235
	AUTHORS: Akimov, L. M. (Kiev); Kononchuk, N. I. (Kiev); Skladnov, I. K. (Kiev); Zverev, N. I. (Kiev); Pliskin, S. M. (Kiev); Krivenko, M. P. (Kiev); Smirnov.
	Yu. N. (Kiev); Lazareva. N. M. (Kiev)
	ORG: none
	TITLE: Investigation of the effects of several factors on the fatigue character- istics of heat resistant alloys used for turbine blade manufacture
	SOURCE: Vsesovuznove soveshchan ve po voprosum staticheskey i linamicheskov prochnosti materialov i konstruktsjonnykn slementov pri vysok ka i nizkika
	temperaturakh. 3d. Termoprochnost! materialov i konstruktsionkykh elementov (Thermal strength of materials and construction elements); materialy soveshchaniya.
	Kiev, Naukova dunka, 1965, 228-235
	TOPIC TACS: heat resistent alloy, metal property, metal fatigue/ EI437B alloy, EI617 alloy, EI867 alloy
	ABSTRACT: The effects of several factors on the fatigue characteristics of heat resistant alloys EI437B, EI617 and EI867 were investigated and compared with
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## ACC NR: AT6008666

results obtained with a normal cylindrical fatigue specimen. The specimen shown in Fig. 1 was used to obtain fatigue curves ( $\langle 2\cdot 10^7 \text{ cycles} \rangle$  showing the effects



of shape (blade versus round specimen), environment (air and confustion products), cyclic heat loading, surface plating (calorizing), and temperature (373, 600, 873,

Card 2/3

ACC NR: AT6028449 AUTHOR: Zverev, N. I. TITLE: Long-range forecasting of the intensity of zonal circulation of the atmos-ORG: none phere Moscow. Tsentral'nyy institut prognozov. Trudy, no. 153, 1966. Statisticheskiye metody dolgosrochnogo prognoza pogody (Statistical methods of longrange weather forecasting), 79-89 TOPIC TAGS: long range weather forecasting, atmospheric current, linear operator, linear equation, atmospheric current current. ABSTRACT: The author examines the possibility of a long-range forecasting of the Intensity of zonal circulation on the basis of the theory of linear extrapolation, Stationary sequence, and stationary processes. A linear formula is derived for forecasting the intensity of zonal circulation which, the author asserts, is the best extrapolation formula, since for Gaussian processes the linear operator is the best operator of forecasting. From the investigation it is concluded that long-range forecasting of the intensity of zonal circulation and large-scale circulation in general can be successful only with consideration of the effect of history on the future development of synoptic processes or even of individual characteristics during the development of macroprocesses. The use of altitude-variation charts and the

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ACC NR: AT6028449

changes of the isallohypses in research and operational work can prove to be an invaluable asset. High-order time derivatives can be included into the linear hydrodynamic systems of long-range forecasting. The use of the statistical method of forecasting the zonal index can improve the quality of forecasts compiled by the bydrodynamic method. Orig. art. has: 34 formulas and I table.

SUB CODE: 04,12/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 002

ACC NR. AT6028447  AUTHOR: Zverev, N. I.; Kashleva, L. I.  ORG: none  TITLE: Statistical method of forecasting the zonal index  TITLE: Statistical method of forecasting the zonal index  TITLE: Statistical method of forecasting the zonal index  SOURCE: Moscow. Tsentral'nyy institut prognozov, Trudy, no. 153, 1966.  SOURCE: Moscow. Tsentral'nyy institut prognozov, Trudy, no. 153, 1966.  TOPIC TAGS: statistic analysis, long range weather forecasting, atmospheric current, and the mean monthly value of the zonal index statistically. In working out this casting the mean monthly value of the zonal index statistically. In working out this method, the authors proceeded from the assumption that by taking into account the method, the authors proceeded from the assumption that by taking into account the past history of zonal circulation it is possible to precalculate the value of the zonal index in the future by extrapolation. Having found that purely zonal circulazonal index in the future by extrapolation. Having found that purely zonal circulazonal index in the future by extrapolation for forecasting the zonal index for a authors set up multiple regression equations for forecasting the zonal index for a authors set up multiple regression equations for forecast phenomenon occurred month with a zero and monthly length of time before the forecast phenomenon occurred. The values of the zonal index for past months were calculated as the starting data. The values of the zonal index for past months were calculated as the starting data.  Align: \$\lambda{\lambd		
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AUTHOR: Zverev, N. I.; Kashleva, L. I.  ORG: none  TITLE: Statistical method of forecasting the zonal index  TITLE: Statistical method of forecasting the zonal index  SOURCE: Moscow, Tsentral'nyy institut prognozoy, Trudy, no. 153, 1966.  SOURCE: Moscow, Tsentral'nyy institut prognozoy, Trudy, no. 153, 1966.  SOURCE: Moscow, Tsentral'nyy institut prognozoy, Trudy, no. 153, 1966.  Topic Tags: statistic analysis, long range weather forecasting, atmospheric current, atm		APPROVED FOR RELEASE: Injursday september 26, 2002. LCIA ROPEG-0051300206571000787 25467 667 0007 1337
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TITIE: Statistical method of forecasting the zonal index  SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy, no. 153, 1966.  SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy, no. 153, 1966.  Statisticheskiye metody dolgosrochnogo prognoza pogody (Statistical methods of long- range weather forecasting), 64-68  TOPIC TAGS: statistic analysis, long range weather forecasting, atmospheric current,  TOPIC TAGS: statistic analysis, long range weather forecasting, atmospheric current,  ABSTRACT: The purpose of this investigation was to elicit the possibility of fore- abstract: The purpose of this investigation was to elicit the possibility of fore- casting the mean monthly value of the zonal index statistically. In working out this casting the mean monthly value of the assumption that by taking into account the method, the authors proceeded from the assumption that by taking into account the method, the authors proceeded from the assumption that by taking into account the past history of zonal circulation it is possible to precalculate the value of the past history of zonal circulation. Having found that purely zonal circula- zonal index in the future by extrapolation. Having found that purely zonal circula- tion in its evolution undergoes variations with periods of 9 and 23 months, the tion in its evolution undergoes variations with periods of 9 and 23 months, the authors set up multiple regression equations for forecasting the zonal index for a month with a zero and monthly length of time before the forecast phenomenon occurred. The values of the zonal index for past months were calculated as the starting data.  The values of the zonal index for past months were calculated as the starting data.  The regression equations after "screening" the predictors had the form:  Al <sub>(j+1)</sub> = a <sub>1</sub> Δl <sub>(j-1)</sub> + a <sub>2</sub> Δl <sub>(j-1)</sub> + a <sub>3</sub> Δl <sub>(j-2)</sub> + β <sub>4</sub> L <sub>(j-1)</sub> + β <sub>4</sub>	-	
SOURCE: Moscow. Tsentral'nyy institut prognozov. Italy, Statistical methods of long-Statisticheskiye metody dolgosrochnogo prognoza pogody (Statistical methods of long-statisticheskiye metody dolgosrochnogo prognoza pogody (Statistical methods of long-range weather forecasting), 64-68  TOPIC TAGS: statistic analysis, long range weather forecasting, atmospheric current,  ABSTRACT: The purpose of this investigation was to elicit the possibility of fore- ABSTRACT: The purpose of this investigation was to elicit the possibility of fore- asting the mean monthly value of the zonal index statistically. In working out this casting the method, the authors proceeded from the assumption that by taking into account the method, the authors proceeded from the assumption that by taking into account the method, the authors proceeded from the assumption that purely zonal circularional index in the future by extrapolation. Having found that purely zonal circularional index in the future by extrapolation. Having found that purely zonal circularional index in the future by extrapolations with periods of 9 and 23 months, the tion in its evolution undergoes variations with periods of 9 and 23 months, the tion in its evolution undergoes variations with periods of 9 and 23 months, the tion in its evolution undergoes variations with periods of 9 and 23 months, the tion in its evolution undergoes variations with periods of 9 and 23 months, the tion in its evolution undergoes variations with periods of 9 and 23 months, the tion in its evolution undergoes variations with periods of 9 and 23 months, the tion in its evolution undergoes to proceeded from the assumption that by taking into account the method, the proceeded from the assumption that by taking into account the tions and the fore- and an authors proceeded from the assumption that by taking into account the proceeded from the proceeded from the assumption that by taking into account the account the proceeded from the possible to precalculate the value of the casting the proceeded		「福祉」(ORG: - none())
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Here  $\Delta I(n + m)$  are the forecast values of the deviation of the index from the monthly index (n - k) of the month from the norm of the same month;  $\alpha_I$ ,  $\beta_I$  are empirical influence functions ("weights"). These equations were derived separately for the cold (1) gives the forecast of the deviations of the mean monthly values of the index from the norm in the month following the initial month, and calculation by Eq. (2) 30-day length of time before the forecasting of the phenomenon occurs. An analysis calculate the intensity of zonal circulation at the mean level of the troposphere compiling monthly forecasts by theoretical methods. Orig. art. has: 5 formulas, and 1 table and 2 figures.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
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ZVEREV, N.1.; ZVEREVA, Ye.p.

Statistical analysis of the effect of various layers of the troposphere on changes of pressure at the earth's surface.

Trudy TSIP no.139:59-66 '65: (MIRA 18:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
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Comparison of the efficiency of coal dust cyclcnes. Elek. sta. 35 no.12:6-8 D '64. (MIRA 18:2)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

BAGROV, N.A.; VASYUKOV, K.A.; ZVEREV, N.I.; PED', D.A.

Principle of analogy and its use in prectical work. Trudy TSIP no.132:41-47 164. (MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

VASYUKOV, K.A.; ZVEREV, N.I.; PED', D.A.

Forecasting the anomaly of the average monthly air temperature.

Trudy TSIP no.132:59-63 164. (MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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ZVEREV, No. 1.

Use of hydrodymamic analogy for weather forecasting. Trudy TST:
no. 134:64.-74 \*64.

(MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R00206

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3" ZVEREV, N.I., kand. tekhn. nauk; IGNAT YEV, V.I., kand. tekhn. nauk

Precipitation of aerosol particles on a cylinder in the presence of a temperature gradient of the media. Teploenergetika 10 no.11:38-39 N '63. (MIRA 17:1)

1. Vsesoyuznyy teplotekhnicheskiy institut.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

ZVEREY, N.I., kand. tekhn. nauk; IGHAT'YEV, V.I., kand. tekhn. nauk

Steam-blast cleaning of sticky flue ashes in order to prevent the unbalancing of flue gas pumps. Elek.sta. 33 no.12:74-76 (MIRA 16:2)

(Boilers-Cleaning)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
LUZHNOV, G.I., inzh.; ZVEREV, N.I., kand.tekhn.nauk; GAVRILOV, A.F., inzh.;
PIGALEV, V.P., inzh.

Pneumatic transportation of shot in boiler systems and methodology for its designing. Elek.sta. 33 no.11:12-19 N '62.

(Boilers)

(MIRA 15:12)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
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LUSHNOV, G.I., inzh.; ZVEREV, N.I., kand.tekhn.nauk; GAVHILOV, A.F., inzh.

Experimental determination of resistance coefficients in the pneumatic transportation of pig iron shot. Teploenergetika 8 no.1:15-18 Ja '61. (MIRA 14:4)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Boilers—Cleaning) (Pneumatic-tube transportation)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3" IGNAT'YEV, V.I., kand.tekhn.nauk; ZVEREV, N.I., kand.tekhn.nauk

Flow of dusty gas around a cylinder. Teploenergetika 8 no.3: 13-16 Mr '61. (MIRA 14:9)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Gas flow)

Approved for Release: Thursday, September 26, 2002
ZVEREV, N.1., kand.tekhm.nauk

Adjustment of MP\_VTI ash traps. Elek.sta. 32 no.4:16-22 Ap !61. (MTRA 14:7)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
IGNAT TEV, V.I., insh.; ZVEREV. N.I., kand.tekhn.nauk

Laboratory air separator with a boiling layer. Teploenergetika 7 no.2:55-58 F '60. (MIRA 13:5)

1. Vsesoyuznyy teplotekhnicheskiy institut. (Separators (Machines))

Approved For Release: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

Flow of a dust-air mixture around a cylinder. Teploenergetika 5 no.3: 36-40 Mr '58. (MIRA 11:4)

1. Vsesoyuznyy teploetekhnicheskiy institut. (Aerodynamica)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVEN TO THURSDAY, SEPTEMBER 26, 2002
CIA-RDP86-00513R002065710007-3"

Settling of aerosol particles on a cylinder. Inzh.- zhur. no.12:17-23 D '60. (MIRA 14:3)

1. Vsesoyuznyy teplotekhnicheskiy institut im. F.E. Dzerzhinskogo, g. Moskva.

(Aerosols)

The Storm Wind of 14 November 1952 in the South of the European Territory of the USSR. Meteorol. i gidrologiya, No 6, 1953, pp 3-7

In the southeastern European part of the USSR from 9 to 14 November 1952 wind strengths up to 28-34 meters/second were observed. The author discussed the variation of the wind regime during this period. For each day he constructs the charts of wind velocity for the ground level and for the altitude 300, 600, and 900 meters above the level of the ground. The storm arose as the result of intense dropping pressure in the lower kilometer layer, which transferred the momentum from top to bottom with the simultaneous advection of cold masses from the northeast. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

ZVEREV, N. I., Kandidat Tisiko-matematicheskiri intik

Meteorological works of the Russian geophysicist 1.W.Smirnov. Meteor.i gidrol. no.5:56-57 My 153. (MIRA 8:9)

1. TSentral'nyy institut profsoyuzov, Moskva. (Smirnov, Ivan Mikolaevich)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-

L V L'ARPROVED FON RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3" AID P - 1864

: USSR/Meteorology and Hydrology Subject

Pub. 71-a - 7/26 Card 1/1

: Zverev, N. I. Author

CHARLES OF THE PARTY OF THE PAR : On temperature forecasting Title

Periodical: Met. i gidro., no.2, 28-29, 1955

: The article is an attempt to establish with equations and charts the role played by turbulence in the moving of warm air. One table and 2 charts are given. Abstract

Institution: None

Submitted : No date "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

SOV/124-58-5-5563

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 91 (USSR)

AUTHOR: Zverev, N. I.

TITLE:

On the Influence of the Temperature Field of the Continent and the Ocean during the Warm Season Upon the Atmospheric Circulation in the Far East (O vliyanii temperaturnogo polya kontinenta i okeana v teploye vremya goda na atmosfernuyu tsirkulyatsiyu v usloviyakh Dal'nego Vostoka)

PERIODICAL: Tr. Tsentr. in-ta prognozov, 1957, Nr 49, pp 250-263

ABSTRACT:

Bibliographic entry

Atmosphere--Motion 2. Oceans--Thermal effects
 Earth--Thermal effects 4. Climatic factors--Asia

Card 1/1

Problems in Long-range Forecasting Leningrad, Gidrometeoizdat, 1957.

Zverev, N.I. Influence of Ocean and Land Temperature on Atmospheric Circulation During the Warm Season in the Far East

The author analyzes the influence of thermal nonuniformity of the surface layer on the atmospheric circulation and discusses some implications from observation results pertinent to weather forecasting. The author defines nonuniformity as the phenomenon of the accumulation of heat in the surface the phenomenon of the accumulation of this heat in latitudinal layer and the unequal distribution of this heat in latitudinal and meridional directions. The article consists of two chapters. One examines the formation of temperature contrasts between one examines the formation of temperature contrasts between icity, i.e., the existence of definite natural temperature icity, i.e., the existence of definite natural temperature intervals (from 6 to 12 days), and the connection of such intervals (from 6 to 12 days), and the connection of such intervals with temperatures of the near-surface air layer. The periods with temperature variation was studied by personnel of subject of temperature variation was studied by personnel of subject of temperature variation of the Far Eastern Scientific the long-term forecast division of the Far Eastern Scientific Research Institute of Hydrometeorology (DV NIGMI). The Institute

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**网络高兴全兴发生社会**中共和国企业

Problems in Long-range Forecasting

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compiled daily temperature maps for sea and land in 1934-38. In addition, the author availed himself of the material collected in the archives of the Central Institute of Forecasts (TSIP). There are 12 maps, 6 tables, and 8 Soviet

Byalynitskaya, V.G., and Ped', D.A. Formation of Night Frosts

The authors place night frosts in Ukraine into the category in Ukraine of those that are dangerous, i.e., capable of damaging crops.
This type of frosts is common both in autumn and in spring, but the authors analyze only the occurence of frosts in May Crimea is included in this study. Tabular material includes statistics of occurrence and duration of frosts. The article analyzes the thermobaric field during the occurrence of frosts and compares it with the field when frost is absent. Pertinent

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Problems in Long-range Forecasting

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indices are deduced and data given on how to forecast the onset of frosts one to two days in advance. There are 13 tables in the text and 2 in the appendix, 8 maps, 2 drawings, and 16 references, of which 14 are Soviet and 2 are English.

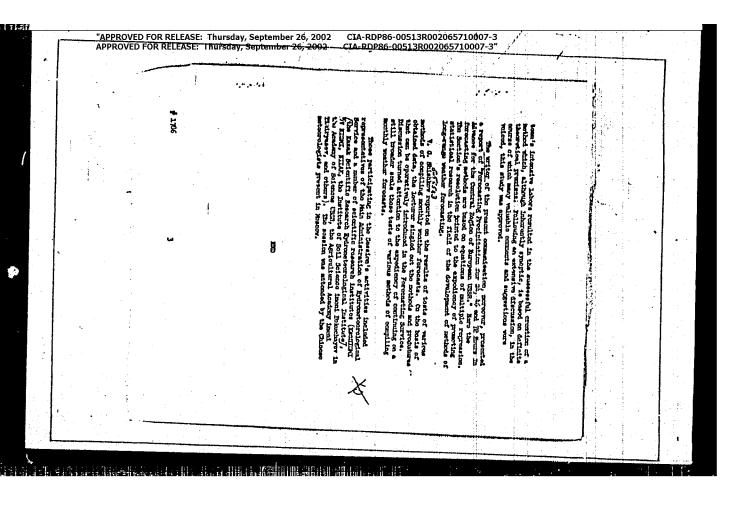
AVAILABLE: Library of Congress

MM /ksv 8-12-58

Card 10/10

	80; 073, Dept of Commerce, 073:60-11,042, TPRS L1078-8, 19 How 39, WELL.	The problems broaded by the locturers rounded a lively of opinions. A secondaries that the conclusions that meritod at sure achievled do to concrete consistent and enhanced the problems and enhanced in practice.  The report of h. F. Forniers touched upon the problems the tracket of the superconduction of the Navis to provide conductions of the control of the formation to because the problems of the formation observations by a large and field) researches and thematic observations by a large and field.	1	pure reports received strention at the ACTICULUM. Received of the Scientific Council.  290/16 bearing and a a bestimation described the results of the action of the second of the council of three-year experimental studies accounted by a large team of three-year experiments studies the second of soil soisture, requested for formation of the second of spring these and corn and and the relationship between the section of spring the stoppe regions of the mater empty receivities on wirgin lands - in the stoppe regions of the mater empty seconditions on wirgin lands.	 PROFESSIONE CONTROL OF THE SCIENCE CONCELL  OF THE CHARACTER OF THE SCIENCE OF TH	Ogot 5563-4		
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113.



501/50-59-5-20/22

3(7) AUTHOR: Zverev, N. 1.

TITLE:

Final Meeting of the Scientific Council of the Central Institute of Prognosis (Itogovaya sessiya Uchenogo soveta Tsentralinogo instituta prognozov)

Meteorologiya i gidrologiya, 1959, Nr 5, pp 61 - 62 (USSR)

ABSTRACT:

PERIODICAL:

On January 12-20, 1959, a meeting of the Scientific Council took place at the Tsentral nyy institut prognozov (Central Institute of Prognosis). It was dedicated to the final results in the fulfilment of the plan for scientific research work. 3 reports were delivered in the Agrometeorological Section of the Scientific Council. L. A. Razumova and S. B. Mastinskaya put forward the results of the three-year experimental work at which the formation of ground humidity reserves and the correlation between the state of the summer wheat and corn and the water supply in the newly won land (the steppe areas of the Kulunda Steppe and of northern Kazakhstan) were investigated. S. B. Mastinskaya, N. B. Meshcha-Yu. S. Mel'nik, N. A. Baybayeva et al participated directly in the working out of this subject. Co-workers of the

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Final Meeting of the Scientific Council of the Central

SOV/50-59-5-20/22

Institute of Prognosis

following organizations took part in the investigations: Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Kazakh Hydrometeorological Scientific Research Institute), Novosibirskiy biologicheskiy institut (Novosibirsk Biological Institute), Kazakhskiy institut im. Vil'yamsa (Kazakh Institute imeni Vil'yams), Kazakhskiy institut zernovogo khozco-workers of the agrometeorological stations. B. P. Ponomarev yaystva (Kazakh Institute of Grain spoke on the evaluation of agrometeorological conditions for the of summer wheat in the area of the RSFSR. 7 reports were delivered in the Hydrological Section of the Scientific Council. The most important results were obtained by V. D. Komarov, A. N. Vazhnov, and A. I. Karakash. V. N. Parshin and Ye. G. Popov worked out a new method for the evaluation of hydrological forecasts. A. I. Afanas yev presented conclusions on the features of the decay of the snow cover on the basis of an interpretation of aerial photographs during the melting of snow. 7 reports were delivered in the Meteorological Section. F. I. Monakhov put forward the results of experimental investiga-

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CIA-RDP86-00513R002065710007-3

CIA-RDP86-00513R002065710007-3 tions for the determination of cyclones on the high sens by the for of cyclones of the method used for forecasts of the for onov the microselsmic recording, for forecasts of used G. Leonov means of microselsmic reduced by A. D. Chistyskov in Antarctic means of microselsmic by O. R. Glazova, A. D. Chistyskov the Antarctic means tesults by O. R. Stitudes of circulation above the features of altitudes of circulation of work of a sense temperature in high satures of the results of work of reported on the features are not the results of vicinity of the results of vicinity of the results of work of a sense of the features are not the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the met Institute of Prognosis reported on the features of circulation above the Antarctic of a group the features of circulation above work of a group weather forezone. Yu. V. Khrabrov presented the results of weather forezone. of collaborators in working out a new method of weather zone. Yu. V. Khrabrov presented the results of weather norm of veather norm of collaborators in working out a new method a report on the Cen of collaborators N. I. Zverey delivered 72 nours in the Cen casts for 3-7 days. The control of precipitations for 24, 46 and 72 nours in the control of collaborators of precipitations for 24, 46 and 72 nours in the control of collaborators of precipitations for 24, 46 and 72 nours in the control of collaborators in the collaborators casts for 3-7 days. N. I. Zverey delivered a report on the Central nours in the central for 24, 46 and 72 nours in report of Shishkov reports of Shishkov reports of the USSE. for the compilation of the USSE. for the compilation of the European Area of various methods was attended by represent the test results of various meeting was attended by represent the test results of various meeting was attended by monthly weather forecasts. on the test results of various methods for the compilation of attended by representing authorities: Glavnove upravlenive monthly weather forecasts authorities: of the hydrometeorologic tetives of the following Administration of the hydrometeosluzhby (Main Administration of Edward Compilation of the hydrometeosluzhby (Main Administration of the hydrometeosluzhby Edward Compilation of the com tatives of the following authorities: Glavnove upravlenive tutives of the following Administration of the Hydrometeorologics (Main Administration of the Hydrometeorologics) (Main NICMI, NIIAK, Institut pochwowedeniva gidrometeosluzhby (Main NICMI, NIIAK, Institut pochwowedeniva Service), Kaz-MICMI, DV NICMI, NIIAK, Institut pochwowedeniva Service, NIIAK, NIIAK, Institut pochwowedeniva Service, NIIAK, N gidrometeosluzhby (Main Administration of the Hydrometeorological Administration of the Hydrometeorological Administration of the Hydrometeorological Administration of the Hydrometeorological Andrews AN ISSR (Institute of Soil Science imenical Andrews AN Institute of Soil Science akademiya in Dokuchayeva AN USSR), Seliskokhozyayatvennaya akademiya imenical AS USSR), Seliskokhozyayatvennaya akademiya akad im. Dokushayeva AN SSSR (Institute of Soil Science imeni Do-sel skokhozyaystvennaya akademiya in kuchayev of the AS USSR), Sel skokhozyaystvennaya card 3/4

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3 Final Meeting of the Scientific Council of the Central Institute of Prognosis

SCV/50-59-5-20/22

Timiryazeva (Agricultural Academy imeni Timiryazev). Besides, Chinese meteorologists staying in Moscow were present.

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PHASE I BOOK EXPLOITATION

Moscow. Tsentral'nyy Institut prognozov

- Voprosy dolgosrochnykh prognozov pogody (Problems in Long-Range Weather Forecasting) Mosqow, Gidrometeolzdat (otd.), 1959. 62 p. (Series: Its: Trudy, vyp. 85) Errata slip inserted. 900 copies printed.
- Sponsoring Agency: USSR. Sovet ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.
- Ed. (Title page): G. I. Morskiy; Ed. (Inside book): L. V. Blinnikov; Tech. Ed.: T. Ye. Zemtsova,
- PURPOSE: This issue of the Institute's Transactions is intended for scientific research and field workers in meteorology as well as for advanced students in schools of higher education.
- COVERACE: This is a collection of three articles in synoptic and general meteorology. Two of the articles deal with problems concerning the general circulation of the atmosphere while the third discusses the matter of forecasting mean 7-day pressure maps. Reference accompany each article.

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Problems in Long-Range (Cont.)

SOV/3249

TABLE OF CONTENTS:

Bayev, V. K. On the Theory of the General Circulation of the Atmosphere The author attempts a theoretical description of the general circulation in the most general statement of the problem. This entails, first of all, the consideration of nonlinear and viscosity members in differential equations, and also the consideration of the nonadiabatic effects which play a basic role in the general circulation of the atmosphere. This work differs from others on the problem insofar as the author pays stricter attention to the dependence of the thermal properties of the underlying surface on geographic coordinates. Computations are introduced to show that temperature in time and space as well as all elements of motion may be determined when the initial distribution of meteorological elements and the heat influx from the Sun, as a function of time, are known. There are 4 references: 3 Soviet and 1 English.

Zverev, N. I. Forecasting a Mean AT 500 Seven-day Chart Since most extended forecasts do not deal with weather conditions to be expected in the week immediately following the date of chart compilation, the author presents a statistical method of compiling mean 7-day charts. The author works on the basic premise that the development of synoptic processes in the future is completely determined by the history of synoptic processes over a given region. There are 7 references: A Soviet and 3 English.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
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"AVERBY III

Forecasting the mean seven-day topographic map of the 500 millibar absolute isobaric surface. Trudy TSIP no.85:27-39 (MIRA 12:8)

(Atmospheric pressure)

APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065710007-3

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CIA-RDP86-0051

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

Determining the degree of analogy between fields of meteorological elements by the use of the "Pogoda" electronic computer. Meteor. i gidrol. no.10:14-18 0 60. (MIRA 13:10) (Weather forecasting) (Electronic calculating machines)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

ZVEREV, N.I.; MORSKOY, G.I.

Analyzing the interaction of the atmosphere and the hydrosphere.

Meteor.i gidrol. no.5:37-41 My '61.

(Atlantic Ocean—Ocean temperature)

(Europe, Western—Atmospheric temperature)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED RELEASE, TWENDY-PURITY, 26, 2002 CIA-RDP86-00513R002065710007-3

Method of forecasting the H500 geopotential field for mean terms.

Trudy TSIP no.108:3-22 '61.

(Weather forecasting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

VASYUKOV, K.A.; ZVEREV, N.I.; PED!, D.A.

Use of the analogy principle in prognoses of synoptic processes and the weather for five days. Trudy TSIP no.116:13-23 '62. (MIRA 15:5)

(Weather forecasting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CLA-RDP86-00513R002065710007-3

VASYUKOV, K.A.; ZVEREV, N.I.; PED\*, D.A.

Forecasting synoptic processes for the current natural synoptic period by the use of analogues. Meteor. i gidrol. no.1:27-33 Ja (MIRA 15:1)

(Statistical weather forecasting)

## S/169/62/000/007/109/149 D228/D307

**AUTHORS:** 

Vasyukov, K. N., Zverev, N. I. and Ped', D. A.

TITLE:

Using the principle of analogousness when forecasting synoptic processes and the weather for five days

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 48, abstract 7B257 (Tr. Tsentr. in-ta prognozov, no. 116,

1962, 13-23)

TEXT: The N-500 values for a standard grid of points, located every 40 of latitude and 120 of longitude on the territory, bounded by 36°W, 84°E, 76°N, and 36°W, were taken from the average maps for natural synoptic processes (NSP) in January and February, 1938-1955. After this the signs of the geopotential differences, respectively characterizing the zonal and the meridional flow components. were determined for meridionally and latitudinally neighboring points. The values +1, 0, and -1 were respectively ascribed to positive, zero and negative differences. The resulting magnitudes of the meridional and the zonal wind components for all NSP were

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Using the principle ...

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printed on tape. The analogs of the N-500 averages for the parameters  $\rho_{\varphi}$  and  $\rho_{\lambda}$ , characterizing the similarity of fields with respect to their circulational features, were selected for the first 20 maps by means of the electronic computer "Pogoda". The values of  $\rho_{\varphi}$  and  $\rho_{\lambda}$  were calculated from the formulae:

$$\rho_{\varphi} = \frac{n_{\omega_{+}} - n_{\varphi_{-}}}{n_{\varphi_{+}} + n_{\varphi_{-}}}, \qquad \rho_{\lambda} = \frac{n_{\lambda_{+}} - n_{\lambda_{-}}}{n_{\lambda_{+}} + n_{\lambda_{-}}}$$

where  $n_{\varphi_+}$ ,  $n_{\varphi_-}$ ,  $n_{\lambda_+}$ ,  $n_{\lambda_-}$  is the number of cases when the signs of the meridional  $(n_{\varphi})$  and the zonal  $(n_{\lambda})$  flow components in two comparable N-500 fields of NSP do, or do not, coincide. The comparison of all NSP with the original 20 allowed the distribution of the degree of analogy for the fields of the 500-mb surface's January geopotential to be obtained from the parameters of  $\alpha$  and  $\alpha$ . It also Card 2/4

Using the principle ...

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allowed the natural frequency of analogous processes to be exposed separately according to the development of the meridional and the zonal air-flow components. Utilizing the criterion  $\rho_{\phi}$  all processes can be divided according to their degree of analogy into three categories: the analog  $(\rho_{\phi} \geqslant 0.4)$ , the non-analog  $(\rho_{\phi} = -0.3, +0.4)$ , and the reverse analog  $(\rho_{\phi} \not = -0.3)$ . Utilizing the criterion  $\rho_{A}$ , too, we will obtain the analog  $\rho_{A} \geqslant 0.8$ , the non-analog  $\rho_{A} = 0.2 + 0.8$ , and the reverse analog  $\rho_{A} \geqslant 0.8$ , the non-analog  $\rho_{A} = 0.2 + 0.8$ , and the reverse analog  $\rho_{A} \geqslant 0.2$ . The criteria are established with a 10% guaranty. In practical work, when classifying all processes into three categories, the degree of guaranty should be established jointly according to both criteria for the analog  $\rho_{Q} \geqslant 0.4$  and  $\rho_{A} \geqslant 0.6$ , the non-analog -0.3 ( $\rho_{\phi} < 0.4$  and  $0.2 < \rho_{A} < 0.6$ , and the reverse analog  $-\rho_{\phi} < 0.3$  and  $\rho_{A} < 0.2$ . Average estimates are given for the analogousness of subsequent pairs of NSP in relation to the degree of analogy of the original pairs of NSP with respect to  $\rho_{\phi}$  Card 3/4

Using the principle ...

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and  $\rho_{\rm g} = \rho_{\rm p} + \rho_{\rm h}$ . As the geometric likeness increases, the analogousness in the development of atmospheric processes in subsequent NSP grows generally. But in a number of examples it is shown, too, that the factor of geometric analogy, though it is of great significance in establishing the analogousness of atmospheric processes, does not always give practically valuable pointers to the future development of processes. In some cases originally similar processes subsequently change into non-analogs. Using modern computers it is possible by means of the analogy parameters of  $\rho_{\rm p}$ , and  $\rho_{\rm p} = \rho_{\rm p} + \rho_{\rm p}$  to take into account objectively the development history of atmospheric processes, to solve problems connected with the choice of analogs, and so forth, which is necessary in order to forecast the weather for 3 - 7 days. / Abstracter's note: Complete translation. 7

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## 5/169/62/000/007/110/149 D228/D307

Vasyukov, K. N., Zverev, N. I. and Ped', D. A. AUTHORS:

Application of empirical functions of influence for forecasting mean monthly air temperature anomalies TITLE:

Referativnyy zhurnal Geofizika, no. 7, 1962, 48-49, abstract 7B258 (Tr. Tsentr. in-ta prognozov, no. 116, PERIODICAL:

1962, 24-33)

TEXT: Particular synchronous and asynchronous (December-January, June-July) factors of correlation between the Moscow air temperature and the temperature (pressure) at a number of points were determined for January and July in order to investigate the influence of centers of atmospheric action (CAA) on the formation of mean monthly air temperature anomalies in the USSR's European territory and in order to derive possible prognostic relations (by preparing the equation of multiple regression). These points were chosen for the characteristic of the intensity of CAA and were located as follows: Ponta Delgada (Azores), Honolulu (Hawaiian Islands), Befollows:

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Application of empirical ...

ruferdur (Iceland), Irkutsk, Tashkent, and Petropavlovsk na Kamchatka. The correlative connections between the elements under consideration (all instances of air temperature and pressure anomalies over 50 years were taken into account) are small. The highest stability (for synchronous relations) is observed between the advection of the Azores anticyclone and the mean monthly temperature anomaly at Moscow. The relations obtained appear more distinctly in cases of greater temperature or pressure deviations at CAA, selected from all the 50-year data. Magnitudes are given for synchronous and asynchronous relations between the mean monthly air temperature anomalies at Moscow and the CAA, and between the mean monthly air temperature anomalies at Moscow and the mean monthly pressure anomalies at the CAA; values are cited, too, for the synchronous relations of the mean monthly Moscow air-temperature anomalies to the pressure anomaly differences between the main CAA. When allowance is made for the state at two CAA, the asynchronous relations between the mean monthly air temperature anomalies at Moscow and the pressure at the CAA are somewhat better than if just one CAA is taken into account. Allowance is made for the sim-Card 2/4

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Application of empirical ...

ultaneous influence of all CAA by means of empirical functions of influence. The problem is simplified by finding the asynchronous relations (with a month's displacement) between the state of some CAA, expressed by fluctuations in the mean monthly air temperature anomaly at Ponta Delgada, Beruferdur, Honolulu, Irkutsk, and Tashkent, and the mean monthly air temperature anomaly on the USSR's European territory according to the data of 11 stations for 1900-1940 (Arkhangel'sk, Leningrad, Syktyvkar, Riga, Moscow, Yelabuga, Orenburg, Zemetchino, Volgograd, Rostov-on-Don, Odessa). Allowance for the influence of CAA on the temperature conditions of the USSR's European territory was made by dividing all the original data into warm (April -September) and cold (October-March) periods, whose empirical functions of influence were determined separately. Coefficients of the empirical functions of influence are cited for each of the 11 points on the USSR's European territory; they were obtained on the grounds of the data's climatic processing. The values of the mean monthly air temperature anomaly ( $\Delta$ t) predictable for each point and month are calculated from the multiple regression equation:  $\Delta t = \alpha_0 \Delta t_0 + \alpha_1 \Delta t_1 + \alpha_2 \Delta t_2 + \alpha_3 \Delta t_3 + \alpha_4 \Delta^{\Delta t_4}$ .

Application of empirical ...

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Here  $\alpha_0$ ,  $\alpha_1$ ,  $\alpha_2$ ,  $\alpha_3$ ,  $\alpha_4$  are the respective coefficients of the empirical functions of influence for a given station on the USSR's European territory and for the stations of each of the four CAA: the Azores and Honolulu highs, the Iceland low / Abstracter's note: It is assumed that 'nelandskoy' should read 'islandskoy' 7, the Siberian high for the cold season, and the Mid-Asiatic low for the warm season.  $\Delta t_0$ ,  $\Delta t_1$ ,  $\Delta t_2$ ,  $\Delta t_3$ ,  $\Delta t_4$  are the respective mean monthly air temperature anomalies at the same points for the preceding month. 18 out of 22 of the forecasts for the mean monthly / Abstracter's note: Complete translation. 7

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S/169/62/000/007/111/149 D228/D307

AUTHOR:

Zverev, N. I.

TITLE:

Forecasting the baric height field's evolution during

3 - 7 days

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 49, abstract 7B259 (Tr. Tsentr. in-ta prognozov, no. 116,

1962, 34-40)

TEXT: The author suggests a complex way of forecasting the evolution of the baric height field at the mean troposphere level for 3 - 7 days. The method contains the clements of theoretical and synoptic-statistical trends, from which ways of numerically forecasting the baric field for average periods are being currently developed. In accordance with G. I. Morskiy's theoretical model (Tr. Tsentr. in-ta prognozov, no. 49, 1957) the main equation is recorded in the form:

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Forecasting the baric ...

 $\frac{\partial \Delta H}{\partial t} + \alpha_1 \frac{\partial H}{\partial t} + \alpha_2 \frac{\partial H}{\partial x} + \alpha_3 \Delta H + \alpha_4 (H\Delta H) = \mathcal{E}(x, y, t)$ 

where H is the value of the N-500 geopotential;  $\Delta$  is the Laplacian sign;  $\alpha_1, \alpha_2, \alpha_3, \alpha_4$  are constants; and  $\mathcal{E}(x, y, t)$  is the arbitrary function, allowing the factors not taken into account in the equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to a certain function  $\overline{H}(x, y)$ , which may in a particular synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the

Card 2/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

Forecasting the baric ...

S/169/62/000/007/111/149 D228/D307

the interval from the original day increases, and that the influence of indices, characterizing the development of smaller-scale disturbances, diminishes. The method allows the baric field's evolution throughout a natural synoptic period to be calculated on the basis of average AT-500 charts for the period's tendency, i.e. it enables a natural synoptic period's peculiarities to be taken into account. Abstracter's note: Complete translation.

Card 3/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

VASYUKOV, K.A.; ZVEREV, N.I.; PED!, D.A.

Application of empirical influence functions to prognoses of mean monthly air temperature anomalies. Trudy TSIP no.116:24-33 (MIRA 15:5)

(Atmospheric temperature) (Weather forecasting)

S/169/62/000/007/112/149 D228/D307 26, 2002 CIA-RDP86-00513R002065710007-3 September 26, 2002 CIA-RDP86-00513R002065710007-3 Possibility of applying L. Kletter's method of fore-casting charts of the mean three-day N-850 values Duytseva, M. A. and Zverey. N. I. Referativnyy zhurnal, Geofizika, no. 7, 1962, 49, al stract 7B260 (Tr. Tsentr. in-ta prognozov, no. 116, 1962, 65-66) ab-AUTHORS: TEXT: The method, suggested by L. Kletter (Praktische Erfahrungen Wetter-Wetter TITLE: prognosen, Arch. Meteorol., Geophys. und Bioklimatol. A, 1956, Bd. on conditions with the circulation conditions with the circulation is based on 9, H 2), was verified in conformity L. Kletter's method is based on territory. The latter the mean three the use of the linear regression equation, relating the mean three the use of the linear regression. PERIODICAL: over the USSR's European territory. L. Kletter's method is based on three-the use of the linear regression equation, relating the mean for the use of the linear regression entitled has on the initial day. The use of the values at 18 hrs on the initial day were deterday N-850 values to the values at 18 hrs on coefficients were deterday user's European part the regression coefficients. day N-850 values to the values at 18 hrs on the initial day. For the USSR's European part the regression coefficients were deterthe USSR's European part the regression the daily AT-850 chart mined by the method of least squares from the daily AT-850 charts. the USSR's European part the regression coefficients were deter-mined by the method of least squares from the daily AT-850 charts for Moscow, Leningrad, Kiev, and Sverdlovsk for January and July, dard 1/2

Possibility of applying ...

S/169/62/000/007/112/149 D228/D307

1950-1952. Out of 27 forecasts 15 proved to be correct in sign, the other 12 being incorrect. The method does not give the dynamics of the development of processes. The reason for the low justifiableness of the forecasts evidently consists of the fact that no adequate allowance is made for the regression equation's free term.

Abstracter's note: Complete translation.

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

VASIUNCY, R. A. S. ZVEREY T. T. PED P. D. A.

Forecasting atmospheric processes by analogues for a natural synoptic period. Trudy TSIP no.12013-13 '63. (ETRA 16:6)

(Weather forecasting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

Forecast of AT500 of the northern hemisphere for 3 to 5 days.

Trudy TSIP no.120:44-48 '63. (MIRA 16:6)

(Weather forecasting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, N.I.; PURGANSKAYA, I.P.

Practical methods of the expansion of the field of meteorological elements in respect to Chebyshev polynomials. Trudy TSIP no.123: 78-86 '63. (MIRA 16:9)

ZVEREV, N.I., kand.fiz.-matem.rauk

Analysis of the characteristics of zonal circulation. Meteor. i gidrol. no.2:36-40 F 164. (MIRA 17:5)

1. TSentral'nyy institut prognozov.

VASYUKOV, K.A., kand. fiz.-matem. nauk; ZVEREV, N.I., kand. fiz.-matem. nauk; PED', D.A., kand. geograf. nauk

Rhythms in the atmosphere and some methods of evaluating them.
Meteor. i gidrol. no.1:47-49 Ja '65. (MIRA 18:2)

1. TSentral'nyy institut prognozov.

"APPROVED FOR RELEASE: Thursday, September 26, 2002
VASTUROV, K.A.; ZVEREV, N.I.; FED.

Statistical method of forecasting the air temperature and the quantity of precipitation for a month. Trudy TSIP no.139:22-28

165. (MIRA 18:6)

ACC NR: AT6033032

where © is the scalar potential of the magnetic field; Ho is the magnitude of the longitudinal field; Ho is the amplitude of the p-th harmonic of the helical field; r, O, z are coordinates. There follows a mathematical development for the case of a helical field with n = 2. The article gives detailed mechanical drawings of several of the main features of the equipment used, including a cross section view of the apparatus, details of the helical winding, and a block diagram of the feeding system. A further figure shows an oscillogram of the current flowing through the winding. The experimental data confirm the validity of the approach to the problem. "In conclusion the authors express their sincere thanks to M. S. Rabinovich for his continuing interest in the work and for his helpful discussions, as well as to He. P. Aleksandrov, V. I. Dudin, V. I. Kryykov, and V. P. Solov'yev who took part in the construction of the equipment, and to G. I. Os'kina who took part in the construction of the winding system." Orig. art. has: 5 formulas, 7 figures, and 1 table.

SUB CODE: 20/ SUEM DATE: none/ ORIG REF: 014/ OTH REF: 003

Card 2/2011

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R002-3 CIA-RDP86-005

Magnetic surfaces and the confinement of a plasma by helical fields in a stellarator with external injection. Dokl. AN SSSR 160 no.6: 1293-1295 F '65. (MIRA 18:2)

1. Submitted September 23, 1964.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R012065710007-23.

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R012065710007-23.

retsenzent; PETROV, A.I., retsenzent; KRISHTALI, L.I., red.

[Statistical accounting and the work analysis of a railroad branch] Statisticheskii uchet i analiz raboty otdeleniia dorrogi. Moskva, Izd-vo "Transport," 1964. 218 p.

(MIFA 17:5)

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065710007-3

PETROKANSKIY, B.I.; ZVEREV, N.P., retsenzent; MIZIN, V.I., retsenzent; FEIROV, A.I., retsenzent; KRISHTAL', L.I., red.; MURAV'YEVA, N.D., tekhn. red.

[Statistical accounting and the work analysis of a rail-road division] Statisticheskii uchet i analiz raboty otdeleniia dorogi. Moskva, Izd-vo "Transport," 1964. 218 p. (MIRA 17:3)

S/081/61/000/023/058/061 B106/B101

AUTHORS:

Reznikovskiy, M.M., Zverev, N.P., Denisova, L.L.

TITLE:

An improved chamber for laboratory tests of the ozone

resistance of rubbers

PERIODICAL:

Re rativnyy zhurnal. Khimiya, no. 23, 1961, 561, abstract

23 P 354. (Tr. N.-i. in-ta shin. prom-sti, sb. 7, 1960, 135-139)

TEXT: An installation guaranteeing satisfactory accuracy and reproducibility of measurements even at nonuniform 03 distribution in the working chamber is described. In order to exclude fluctuations in the 03 concentration, the case containing the samples revolves at a rate of 2 rpm. The contactless transmission of torque from the Warren motor is attained by means of a magnetic clutch. [Abstracter's note: Complete translation.]

Card 1/1

Zverev, N.S., Engineer AUTHOR:

807/133-58-10-26/31

TITLE:

On the Problem of Production of Deep Drawing Sheets for the Manufacture of Automobile Bodies (K voprosam proizvodstva avtolista dlya glubokoy vytyazhki)

: Stal', 1958, Nr 10, p 948 (USSR)

PERIODICAL:

ABSTRACT: The paper contains critical remarks on the previously published paper by G.D. Rogoza (Refs 1 and 2) in which the validity of Eriksen's test for deep drawing sheets was questioned. The present author considers that in order to supply quality sheets, the metal should be extensively tested on the producing works. There are 3 Soviet references.

Gor'kovskiy avtomobil'nyy zavod (Gor'kiy Automobile ASSOCIATION: Plant:)

Card 1/1

ZVEREV, N.S.

Selecting sheet steel for deep-drawing of body parts, Avt. i trakt. prom. no.10:40-41 0 '56. (MIRA 10:1)

1. Gor'kovskiy avtosavod imeni Molotova.
(Antomobiles-Bodies) (Sheet steel)

Using cold-rolled sheets of nonaged steels for stamping boly parts of passenger cars. Avt. i trakt. prom. no.6:31-32 Je '56. (MLRA 9:9)

1. Gor'kovskiy avtozavod imeni Molotova.
(Automobiles-Bodies) (Sheet steel)

AUTHOR:

Zverev, N.S.

30V-113-58-9-15/19

TITLE:

Tests of Imported and Domestic Cold-Rolled Plate for Automobile Bodies (Ispytaniya importnogo i otachestvennogo avtokuzovnogo kholodnokatanogo lista)

PERIODICAL:

Avtombil'naya promyshlennost', 1958, Nr 9, pp 38-40 (USSR)

ABSTRACT:

The Gor'kiy Motor Vehicle Plant, and also several other Soviet automobile plants, satisfied part of its requirements for cold-rolled plate for car production by imports. Especially the Gor'kiy plant obtained cold-rolled steel plate from the USA, England, West Germany and France. In order to compare the chemical analysis, mechanical properties and pressing results of the imported steel plate and that produced by the zavod "Zaporozhstal'" (Zaporozhstal'" Plant), tests of both kinds were carried out. The test results are presented on 4 tables: The percentage in the plate of carbon, manganese and sulphur (Table 1); yield point, elongation, relation between the yield point and the ultimate strength at rupture, hardness RB, extension by Erichsen cupping test in mm, grain size in ball-marks, waste at punching (Table 2), the same data for the angular body panels of the "Pobeda" car (Table 3) and stamping results for other parts (Table 4). The author

Card 1/2

SOV-113-58-9-15/19

Tests of Imported and Domestic Cold-Rolled Plate for Automobile Bodies

evaluates these results and strongly recommends their consideration in the establishment of relevant GOST standards for the motor vehicle plants.

There are 4 tables and 3 Soviet references.

ASSOCIATION: Gor'kovskiy avtozavod (The Gor'kiy Motor Vehicle Plant)

1. Automobile industry--USSR 2. Metal plates--Effectiveness

Card 2/2

"APPROVED FOR RELEASE. Thursday, September 26, 2002 a or ARRIPSS - 095#3#00206571000743 APPROVED FOR RELEASE. Thursday, September 26, 2002 CEA-RDFSS-00519R002065710007-3" ... ... •• ... •• INFLUENCE OF FREE FERRITE ON IMPACT STRENCTH. N. S. Zyerey. Vestnik Metallopron. 14, 98-102(1934) (in Russian); Met Abstracts (in Metals and Alloys) 6, 506. Low impact strength observed in processing parts made of steel contg. C 0.34-0.39, Nn 0.33-0.48, S1 0.21-0.34 and Cr 0.42-1.125 was due to the presence of free ferrite either ... **...** ... <sub>≂</sub>• • not brought into soln, before quenching or quenched too slowly for retaining it in soln. G. G. ..● ● **300** 8 8 8 99 : ATA-SEA BETALLURGICAL LITERABLER CLASSIFICATION Tide (10:11)17

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

Testing imported and Russian made cold rolled sheets used for automobile bodies. Avt. prom. no.9:38-40 S \*\*158. (MIRA 11:10)

1.Gor kovskiy avtosavod. (Sheet steel--Testing)

ZVEREV, N.V.; SHYYDKO, Z.A., red.; GRABARNIK, A.Z., red.; TURABAYEV, B., tekhn.red.

[Kazakhstan in the seven-year plan] Kazakhstan v semiletke; sbornik statei i ocherkov. Alma-Ata, Kazakhskoe gos.izd-vo. 1960. 238 p. (MIRA 13:12) (Kazakhstan--Economic conditions) Z VAEPROVED FOR NELBASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007; VIIIIV. N.V., APPROVED FOR RESEASE THURSDAY POR POR CONTRIBUTION OF THE VALUE OF THE VALUE

[Kazakhstan is a republic of large-scale state farm production]

Kazakhstan-respublika krupnogo sovkhoznogo proisvodstva. Alma-Ata,

Kazakhskoe gos.izd-vo, 1956. 129 p. (MIRA 10:12)

(Kazakhstan-State farms)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
ZVEREV, Nikolay Vsail yevich, zmrnelist; MYAGKOV, M.M., red.;

RAKOV, S.I., tekhn.red.

[A factory committee and production potentials] Zsvkom
i rezervy proizvodstva. Moskva, Izd-vo VTsSPS Profizdat, 1959.
77 p.
(Balkhash--Copper industry) (Trade unions)

(Trade unions)

[New construction in Kasakhatan during the sixth five-year plan]
Novostroiki shestoi piatiletki Kasakhatana. Alma-ita, Kasakhakoe
gos.izd-vo, 1957. 134 p. (MLRA 10:9)

(Kasakhatan--Industries) (Kasakhatan--Building)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

ZVEREV, Nikolay Vasillyavich; MATSKEVICH, Oleg Vasillyavich; PRIKHOD'KO, S., red.

[Kazakhstan, the country of eagle's wings]Kazakhstan - strana orlinykh kryl'yev. Alma-Ata, "Kazakhstan", 1965.

172 p. (MIRA 18:12)

ZVEREV, O.S., otv. red.; MOSKOVSKAYA, L.M., red. izd-va; ZENDEL', M.Ye., tekhn. red.

[Fishes of the Usa River basin and their feeding resources] Ryby basseina r.Usy i ikh kormovye resursy. Moskva, Izd-vo Akad. nank SSSR, 1962. 274 p. (MIRA 15:6)

1. Akademiya nauk SSSR. Komi filial, Syktyvkar. (Usa Valley-Fishes)

MIKHAYLOV, A.A., otv.red.; ZVEREV, M.S., red.; KULIKOVSKIY, P.G., red.; MASEVICH, A.G., red.; MUSTEL, E.R., red.; SOBOLEV, V.V., red.; SUBBOTIN, M.F., red.; SAMSONENKO, L.V., red.; TUMARKINA, H.A., tekhn.red.

> [Astronomy in the U.S.S.R. during forty years 1917-1957; collected articles] Astronomia v SSSR sa scrok let. 1917-1957; sbornik statei. Red.kollegiia: A.A.Mikhailov i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 728 p.

> > (Astronomy--History)

(MIRA 13:7)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

ZVEREV. N. I.: KRESTOV, B.D.; ENG. CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

- 2. USSR (600)
- 4. Ash Disposal
- Rab. energ. 2 no. 10, 1952 7. Apparatus VTI for washing out ashes.

1953. Unclassified. Monthly List of Russian Accessions, Library of Congress, January

"APPROVED FOR RELEASE: Thursday, September 26, 2002

1. ZV SLEV, N. T.

2. USSR (600)

4. Dust - Removal

7. Dust collector model VTI. Elek. stm. 23 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

APPROVED FOR RELEASE: Thursday, September 26, 2002
TVEREY, N. I. kandidat teknniches/12kh
Galculation of the suction flue of baffle-type fly-ash collectors. Teploenergetika 2 no.5:444-449

1. Vsesoyuznyy teplotekhnicheskiy institut
(Dust collectors)

AID P - 2328

USSR/Electricity Subject

Pub. 110-a - 9/17 card 1/1

Zverev, N. I., Kand. of Tech. Sci. Author

Computing the outlet pipe of a screen-type ash catcher 44-49, My 1955 Title

: Teploenergetika, 5, Periodical

A mathematical analysis for designing a screen-type ash catcher equipped with an ejector is presented with tables, curves and equations. Five diagrams. Abstract

All-Union Heat Technology Institute Institution:

No date Submitted

AUTHOR:

Zverev, N.I., Candidate of Technical Sciences.

Modelling the motion of poly-disperse dusts.

TITLE:

(Modelirovanij) dvizheniya polidispersnoy pyli.)

PERIODICAL:

"Teploenergetika" (Thermal Power), 1957, Vol.4, No.7, pp. 35 - 38 (U.S.S.R.)

ABSTRACT:

In a previous article the author showed that there are five criteria that characterise the steady motion of dusty gas or liquid. Two of these criteria include the diameter of a dust particle. Consequently these criteria are only applicable to mono-disperse dusts (that is dust consisting of particles of one size only) In practice we have to deal almost exclusively with poly-disperse dusts, that is dusts consisting of particles of many sizes. At low dust concentrations when the motions of different fractions do not interact on one another modelling may be effected by sub-dividing the poly-disperse dust into a number of narrow fractions and using corresponding fractions in the model. However, this procedure is very laborious and is quite inapplicable at high concentrations. Neither is it permissible to introduce some sort of mean

Card 1/4

Modelling the motion of poly-disperse dusts. (Cont.)

diameter into the criteria since in order to choose the diameter correctly it is necessary to know in advance the function that it is required to find.

All this severely limits the possibilities of modelling for the study of industrial equipment and, therefore, it is necessary to find additional conditions of

similarity of motion of poly-disperse dusts.

The similarity of motion of two dust flows is then considered. During the course of the examination the dimensions of the dust particles are expressed as a ratio of a dimension which is characteristic for the given dust so that the diameter of the particle is expressed by a dimensionless number. It is then shown that in two systems with identical criteria consisting of characteristic dimensions all the dust particles with identical dimensionless diameters have certain criteria in common. As a result of the examination additional criteria are in effect introduced for polydisperse dust.

In order to ensure complete similarity all five main criteria should be the same for both model and

Card 2/4

Modelling the motion of poly-disperse dusts. (Cont.)

specimen. This is often difficult and sometimes impossible to achieve. It is therefore desirable to cut down the number of criteria and the various ways in which this can be done are considered. It is shown that simplification is possible when the range of concentration is from 0.05 to 0.1 kg/kg, or if the force of gravity is negligible compared with the inertia forces. This latter point can be cleared up by using the test equipment in different positions, for example, if its performance does not change when it is inverted, gravity may be ignored. It is shown that when modelling on the basis of three criteria the gas speed, disperseness and density of dust in the model are fully defined and cannot be selected arbitrarily. Therefore, this is the most difficult case of modelling. When modelling by two criteria two scales are fixed and one is arbitrary. Still further simplifications are sometimes

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When the necessary scales have been found the necessary dust density is determined, then the best available material is chosen, and then if the density is

Modelling the motion of poly-disperse dusts. (Cont.)

not quite of the value required the remaining scales are altered somewhat. The various degrees of fineness required in the model dust are calculated and the material is milled in a laboratory mill. Sieve analyses are made during the course of milling until most of the dust is of the required composition. If the dust contains an excess of fines or coarse particles these are removed by appropriate sieves. A quantity of 100 - 200 grams of dust is usually necessary for tests on laboratory models and the quantity of dust required for a complete series of tests does not exceed 2 - 3 kg. In practice it is not difficult to produce such a quantity of dust of a required composition and in any case it is easier than preparing a larger quantity of close fractions.

Card 4/4

There are # figures and 2 references, 1 of which is Slavic.

ASSOCIATION: All-Union Thermo-technical Institute (VTI)

AVAILABLE:

90-3-10/26

AUTHOR:

Ignat'yev. V.I. (Engineer) & Zverev, N.I. (Cand. Tech. Sci.)

TITLE:

The flow of dusty gas round a cylinder (Obtekaniye tsilindra

zapylennym guzom.)

PERIODICAL:

Teploenergetika, 1958,

No.3. pp. 36-40 (USSR)

ABSTRACT:

There are many processes in which dusty gas flows round a cylinder. Of the total number of particules that pass through a cross-sectional area equal to that of the cylinder, but a considerable distance in advance of it, only a proportion reach the surface of the cylinder and the remainder pass by. The ratio of those that touch the cylinder to the total number was determined in this work for various conditions and the distribution of the dust over the surface of the cylinder was studied. The experimental device consisted of a vertical channel of 500 x 50 mm section. The test cylinder was located at the centre of the section, parallel to the short side, at a distance of 45 hydraulic diameters from the inlet. Flow was always turbulent at the position of the cylinder. Arrangements were made to ensure that the conditions of air flow over the cylinder approximated to those in a boundless flow. The other experimental conditions are described. The tests were carried out with fractions of milled anthracite and metal dust (an alloy of chronium and iron) with specific gravities of 1.655 and 7.3 gram/cm2 respectively. fractions were prepared in air separators. The procedure of preparation is described. The characteristics of the fractions in

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The flow of dusty gas round a cylinder.

96-3-10/26

respect of the velocity at which they fly ( pick-up speed ) and hydraulic diameter (the diameter of a sphere with same density and pick-up speed) are tabulated. Dust for the tests was poured into a tube and blown into the collector by a strong yet of air from a needle valve. It was shown by special tests that with this method of delivery the suspension broke up into individual dust particles, uniformly distributed over the working section. In order to determine the proportion of dust trapped on the cylinder the cylinder was wrapped round with a ring of cinefilm 10 mm wide smeared with petrolatum, which trapped all the dust particles that touched it. The film was then compared with a transparent scale under a microscope. Various experimental procedures were used and are described. Mine series of tests were made with downward flow, anthracite dust being used in Nos.1 - 7, and metal dust in Nos. 8 & 9. Speeds of around 2, 4, 12 & 16 m/sec were used with cylinders of 12, 25 & 50 mm diameter. In each series of tests the finest fractions were used first followed by the coarser. The tests were made at room temperature and pressure. When Reynolds number for the particles is less than 0.1 the resistance to the medium acting on the particles is given by the Stokes' formula, and the St criterion defines the motion. When Reynolds number for the particles is greater than 0.1 Stokes' formula is inapplicable and motion is not uniquely governed by the

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The flow of dusty gas round a cylinder.

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St criterion. Frevious authors have given the proportion trupped as a unique fraction of St, usually there was a considerable scatter of points and considerable difference between the general relationships obtained by different authors. This was probably because in the experiments, Reynolds number was not low enough and instead of a unique relationship between the proportion of particles trapped and St there should have been a family of curves. The authors' test results are given in Fig.1. The accuracy of the determinations is such that a family of curves can be plotted. Then the particles move in a vertical flow their relative velocity at a distance from the cylinder is practically equal to the speed of pick-up, but the velocity increases near the cylinder. In the majority of tests the Reynolds number was greater than 0.1 even in the part remote from the cylinder. Therefore, in most of the tests the resistance factor according to Stokes' law was not determined. When particles move in a vertical flow their trajectory and the proportion trapped may also depend on gravitational force. To check this point, two additional series of tests were made with authracite dust and rising air flow at speeds of 2 and 16.6 m/second. In these tests the axial components of inertia and gravity forces were opposed so that if gravitation was important the proportion trapped should be less than in the first scries of tests. The results of the tests given in Fig. 2. confirm that this was so. This applies even to the

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The flow of dusty gas round a cylinder.

96-3-10/26

finest of particles for which the air speed was far above the pick-up speed. Dimensionless curves of the distribution of trapped dust over the cylinder surface are of quite a different character with upward and downward flow as will be seen from Fig. 3. Therefore, gravity has a marked effect on the process. An additional criterion D is introduced that, together with the criterion St, determines the probability of particles hitting the cylinder with a downward flow of air. Fig. 6. gives curves of the distribution of trapped dust on the surface of the cylinder with a downward flow of air. There are 7 figures, 1 table and 10 literature references (6 Russian and 4 English)

ASSOCIATION: All-Union Ther Mo-Technical Institute. (Vsesoyuznyy Teplo-AVAILABLE: Library of Congress. tekhnicheskiy Institut).

Card 4/4

ACCESSION NR: AT4040568

5/2546/64/000/135/0063/0090

AUTHOR: Zverev, N. 1.

TITLE: Waves in the atmosphere

SOURCE: Moscow. Tsentral'nywy institut prognozov. Trudyw, no. 135, 1964. Sinoptii.ostatisticheskiye metodyw prognozov pogodyw (Synoptic statistical methods of weather forecasting), 63-90

TOPIC TAGS: meteorology, weather forecasting, atmospheric circulation, atmospheric wave, periodogram

ABSTRACT: On the basis of a review of the extensive bibliography, the author analyzes the literature dealing with wave processes in the atmosphere and describes the statistical methods of periodogram analysis used by various authors for detecting large-scale waves. It is shown that the statistically detected waves can be used for forecasting atmospheric circulation for as much as a month in advance. Particular attention is given to an analysis of pressure and temperature waves in the periods of 5 to 7 days, discovered by a great many investigators. Consideration is given to the methods used by various authors who have found waves with tion is given to the methods used by various authors who have found waves with periods of 12, 17, 25, 11, 13 and 22 days and many others. In each case the author has attempted to determine whether these waves are real or a mathematical card 1/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

ACCESSION NR: AT4040568

fiction, how stable they are if real, and whether they can be extrapolated for a long period. It is concluded that wave processes with periods of 5-6, 8 and 13-14 days are stochast cally real. Contrary to certain other investigators, the author believes that this fact can be used for practical purposes and that the methodology used in earlier attempts was faulty. Three significant formulas are presented which can be used for judging the presence of wave processes in the atmosphere, the most important being a spectral function of the entire process. Examples are cited showing how wave processes in cyclonic and anticyclonic activity at the mean level of the troposphere can be detected. The only period detected simultaneously in both the meridional and zonal air flow components is T = 14 days. It is shown, however, that there is no rigorous periodicity in the atmosphere; the periods of 5, 8 and 14 days are approximations. Recommendations are made for prediction of circulation at the mean level of the troposphere, although only for August, September and October. Only those waves which develop in quasi-stationary pressure systems are of practical value for the forecaster. Orig. art. has: 93 formulas and 6 tables.

ASSOCIATION: Tsentral'nymy institut prognozov (Central Institute of Forecasts)

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DATE ACQ: 02Ju164

ENCL: 00

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NO REF SOV: 036

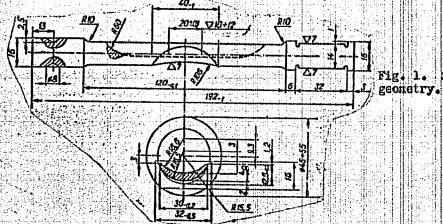
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	L 14280-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t) IJP(d) JD/HW/GS
-	ACC NR: AT6008666 (N) SOURCE CODE: UR/0000/65/000/000/028/0235
	AUTHORS: Akimov, L. M. (Kiev); Kononchuk, N. I. (Kiev); Skladnov, I. K. (Kiev); Zverev, N. I. (Kiev); Pliskin, S. M. (Kiev); Krivenko, M. P. (Kiev); Smirnov.
	Yu. N. (Kiev); Lazareva. N. M. (Kiev)
	ORG: none
	TITLE: Investigation of the effects of several factors on the fatigue character- istics of heat resistant alloys used for turbine blade manufacture
	SOURCE: Vsesovuznove soveshchan ve po voprosum staticheskey i linamicheskov prochnosti materialov i konstruktsjonnykn slementov pri vysok ka i nizkika
	temperaturakh. 3d. Termoprochnost! materialov i konstruktsionkykh elementov (Thermal strength of materials and construction elements); materialy soveshchaniya.
	Kiev, Naukova dunka, 1965, 228-235
	TOPIC TACS: heat resistent alloy, metal property, metal fatigue/ EI437B alloy, EI617 alloy, EI867 alloy
	ABSTRACT: The effects of several factors on the fatigue characteristics of heat resistant alloys EI437B, EI617 and EI867 were investigated and compared with
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results obtained with a normal cylindrical fatigue specimen. The specimen shown in Fig. 1 was used to obtain fatigue curves ( $\langle 2\cdot 10^7 \text{ cycles} \rangle$  showing the effects



of shape (blade versus round specimen), environment (air and conjustion products), cyclic heat loading, surface plating (calorizing), and temperature (373, 600, 873,

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ACC NR: AT6028449 AUTHOR: Zverev, N. I. TITLE: Long-range forecasting of the intensity of zonal circulation of the atmos-ORG: none phere Moscow. Tsentral'nyy institut prognozov. Trudy, no. 153, 1966. Statisticheskiye metody dolgosrochnogo prognoza pogody (Statistical methods of longrange weather forecasting), 79-89 TOPIC TAGS: long range weather forecasting, atmospheric current, linear operator, linear equation, atmospheric current current. ABSTRACT: The author examines the possibility of a long-range forecasting of the Intensity of zonal circulation on the basis of the theory of linear extrapolation, Stationary sequence, and stationary processes. A linear formula is derived for forecasting the intensity of zonal circulation which, the author asserts, is the best extrapolation formula, since for Gaussian processes the linear operator is the best operator of forecasting. From the investigation it is concluded that long-range forecasting of the intensity of zonal circulation and large-scale circulation in general can be successful only with consideration of the effect of history on the future development of synoptic processes or even of individual characteristics during the development of macroprocesses. The use of altitude-variation charts and the

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changes of the isailohypses in research and operational work can prove to be an invaluable asset. High-order time derivatives can be included into the linear hydrodynamic systems of long-range forecasting. The use of the statistical method of forecasting the zonal index can improve the quality of forecasts compiled by the hydrodynamic method. Orig. art. has: 34 formulas and I table.

SUB CODE: 04,12/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 002

ACC NR. AT6028447  AUTHOR: Zverev, N. I.; Kashleva, L. I.  ORG: none  TITLE: Statistical method of forecasting the zonal index  TITLE: Statistical method of forecasting the zonal index  TITLE: Statistical method of forecasting the zonal index  SOURCE: Moscow. Tsentral'nyy institut prognozov, Trudy, no. 153, 1966.  SOURCE: Moscow. Tsentral'nyy institut prognozov, Trudy, no. 153, 1966.  TOPIC TAGS: statistic analysis, long range weather forecasting, atmospheric current, and the mean monthly value of the zonal index statistically. In working out this casting the mean monthly value of the zonal index statistically. In working out this method, the authors proceeded from the assumption that by taking into account the method, the authors proceeded from the assumption that by taking into account the past history of zonal circulation it is possible to precalculate the value of the zonal index in the future by extrapolation. Having found that purely zonal circulazonal index in the future by extrapolation. Having found that purely zonal circulazonal index in the future by extrapolation for forecasting the zonal index for a authors set up multiple regression equations for forecasting the zonal index for a authors set up multiple regression equations for forecast phenomenon occurred month with a zero and monthly length of time before the forecast phenomenon occurred. The values of the zonal index for past months were calculated as the starting data. The values of the zonal index for past months were calculated as the starting data.  Align: \$\lambda{\lambd		
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Here  $\Delta I(n + m)$  are the forecast values of the deviation of the index from the monthly index (n - k) of the month from the norm of the same month;  $\alpha_I$ ,  $\beta_I$  are empirical influence functions ("weights"). These equations were derived separately for the cold (1) gives the forecast of the deviations of the mean monthly values of the index from the norm in the month following the initial month, and calculation by Eq. (2) 30-day length of time before the forecasting of the phenomenon occurs. An analysis calculate the intensity of zonal circulation at the mean level of the troposphere compiling monthly forecasts by theoretical methods. Orig. art. has: 5 formulas, and 1 table and 2 figures.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 007

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Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

ZVEREV, N.1.; ZVEREVA, Ye.p.

Statistical analysis of the effect of various layers of the troposphere on changes of pressure at the earth's surface.

Trudy TSIP no.139:59-66 '65: (MIRA 18:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
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CIA-RDP86-00513R0007-3

Comparison of the efficiency of coal dust cyclcnes. Elek. sta. 35 no.12:6-8 D '64. (MIRA 18:2)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

BAGROV, N.A.; VASYUKOV, K.A.; ZVEREV, N.I.; PED', D.A.

Principle of analogy and its use in prectical work. Trudy TSIP no.132:41-47 164. (MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

VASYUKOV, K.A.; ZVEREV, N.I.; PED', D.A.

Forecasting the anomaly of the average monthly air temperature.

Trudy TSIP no.132:59-63 164. (MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

ZVEREV, No. 1.

Use of hydrodymamic analogy for weather forecasting. Trudy TST:
no. 134:64.-74 \*64.

(MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R00206

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3" ZVEREV, N.I., kand. tekhn. nauk; IGNAT YEV, V.I., kand. tekhn. nauk

Precipitation of aerosol particles on a cylinder in the presence of a temperature gradient of the media. Teploenergetika 10 no.11:38-39 N '63. (MIRA 17:1)

1. Vsesoyuznyy teplotekhnicheskiy institut.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

ZVEREY, N.I., kand.tekhn.nauk; IGHAT'YEV, V.I., kand.tekhn.nauk

Steam-blast cleaning of sticky flue ashes in order to prevent the unbalancing of flue gas pumps. Elek.sta. 33 no.12:74-76 (MIRA 16:2)

(Boilers-Cleaning)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
LUZHNOV, G.I., inzh.; ZVEREV, N.I., kand.tekhn.nauk; GAVRILOV, A.F., inzh.;
PIGALEV, V.P., inzh.

Pneumatic transportation of shot in boiler systems and methodology for its designing. Elek.sta. 33 no.11:12-19 N '62.

(Boilers)

(MIRA 15:12)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
LUSHNOV, G.I., inzh.; ZVEREV, N.I., kand.tekhn.nauk; GAVHILOV, A.F., inzh.

Experimental determination of resistance coefficients in the pneumatic transportation of pig iron shot. Teploenergetika 8 no.1:15-18 Ja '61. (MIRA 14:4)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Boilers—Cleaning) (Pneumatic-tube transportation)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3" IGNAT'YEV, V.I., kand.tekhn.nauk; ZVEREV, N.I., kand.tekhn.nauk

Flow of dusty gas around a cylinder. Teploenergetika 8 no.3: 13-16 Mr '61. (MIRA 14:9)

1. Vsesoyuznyy teplotekhnicheskiy institut. (Gas flow)

Approved for Release: Thursday, September 26, 2002
ZVEREV, N.1., kand.tekhm.nauk

Adjustment of MP\_VTI ash traps. Elek.sta. 32 no.4:16-22 Ap !61. (MTRA 14:7)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
IGNAT TEV, V.I., insh.; ZVEREV. N.I., kand.tekhn.nauk

Laboratory air separator with a boiling layer. Teploenergetika 7 no.2:55-58 F '60. (MIRA 13:5)

1. Vsesoyuznyy teplotekhnicheskiy institut. (Separators (Machines))

Approved For Belease: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

Flow of a dust-air mixture around a cylinder. Teploenergetika 5 no.3: 36-40 Mr '58. (MIRA 11:4)

1. Vsesoyuznyy teploetekhnicheskiy institut. (Aerodynamica)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVEN TO THURSDAY, SEPTEMBER 26, 2002
CIA-RDP86-00513R002065710007-3"

Settling of aerosol particles on a cylinder. Inzh.- zhur. no.12:17-23 D '60. (MIRA 14:3)

1. Vsesoyuznyy teplotekhnicheskiy institut im. F.E. Dzerzhinskogo, g. Moskva.

(Aerosols)

The Storm Wind of 14 November 1952 in the South of the European Territory of the USSR. Meteorol. i gidrologiya, No 6, 1953, pp 3-7

In the southeastern European part of the USSR from 9 to 14 November 1952 wind strengths up to 28-34 meters/second were observed. The author discussed the variation of the wind regime during this period. For each day he constructs the charts of wind velocity for the ground level and for the altitude 300, 600, and 900 meters above the level of the ground. The storm arose as the result of intense dropping pressure in the lower kilometer layer, which transferred the momentum from top to bottom with the simultaneous advection of cold masses from the northeast. (RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

ZVEREV, N. I., Kandidat Tisiko-matematicheskiri intik

Meteorological works of the Russian geophysicist 1.W.Smirnov. Meteor.i gidrol. no.5:56-57 My 153. (MIRA 8:9)

1. TSentral'nyy institut profsoyuzov, Moskva. (Smirnov, Ivan Bikolasvich)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-

L V L'ARPROVED FON RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3" AID P - 1864

: USSR/Meteorology and Hydrology

Pub. 71-a - 7/26 Card 1/1

: Zverev, N. I. Author

CHARLES OF THE PARTY OF THE PAR : On temperature forecasting Title

Periodical: Met. i gidro., no.2, 28-29, 1955

: The article is an attempt to establish with equations and charts the role played by turbulence in the moving of warm air. One table and 2 charts are given. Abstract

Institution: None

Subject

Submitted : No date "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3"

SOV/124-58-5-5563

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 91 (USSR)

AUTHOR: Zverev, N. I.

TITLE:

On the Influence of the Temperature Field of the Continent and the Ocean during the Warm Season Upon the Atmospheric Circulation in the Far East (O vliyanii temperaturnogo polya kontinenta i okeana v teploye vremya goda na atmosfernuyu tsirkulyatsiyu v usloviyakh Dal'nego Vostoka)

PERIODICAL: Tr. Tsentr. in-ta prognozov, 1957, Nr 49, pp 250-263

ABSTRACT:

Bibliographic entry

Atmosphere--Motion 2. Oceans--Thermal effects
 Earth--Thermal effects 4. Climatic factors--Asia

Card 1/1

Problems in Long-range Forecasting Leningrad, Gidrometeoizdat, 1957.

Zverev, N.I. Influence of Ocean and Land Temperature on Atmospheric Circulation During the Warm Season in the Far East

The author analyzes the influence of thermal nonuniformity of the surface layer on the atmospheric circulation and discusses some implications from observation results pertinent to weather forecasting. The author defines nonuniformity as the phenomenon of the accumulation of heat in the surface the phenomenon of the accumulation of this heat in latitudinal layer and the unequal distribution of this heat in latitudinal and meridional directions. The article consists of two chapters. One examines the formation of temperature contrasts between one examines the formation of temperature contrasts between icity, i.e., the existence of definite natural temperature icity, i.e., the existence of definite natural temperature intervals (from 6 to 12 days), and the connection of such intervals (from 6 to 12 days), and the connection of such intervals with temperatures of the near-surface air layer. The periods with temperature variation was studied by personnel of subject of temperature variation was studied by personnel of subject of temperature variation of the Far Eastern Scientific the long-term forecast division of the Far Eastern Scientific Research Institute of Hydrometeorology (DV NIGMI). The Institute

Card 8/10

**网络**国际政治院 整合性政治性 (1972年)

Problems in Long-range Forecasting

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compiled daily temperature maps for sea and land in 1934-38. In addition, the author availed himself of the material collected in the archives of the Central Institute of Forecasts (TSIP). There are 12 maps, 6 tables, and 8 Soviet

Byalynitskaya, V.G., and Ped', D.A. Formation of Night Frosts

The authors place night frosts in Ukraine into the category in Ukraine of those that are dangerous, i.e., capable of damaging crops.
This type of frosts is common both in autumn and in spring, but the authors analyze only the occurence of frosts in May Crimea is included in this study. Tabular material includes statistics of occurrence and duration of frosts. The article analyzes the thermobaric field during the occurrence of frosts and compares it with the field when frost is absent. Pertinent

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Problems in Long-range Forecasting

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indices are deduced and data given on how to forecast the onset of frosts one to two days in advance. There are 13 tables in the text and 2 in the appendix, 8 maps, 2 drawings, and 16 references, of which 14 are Soviet and 2 are English.

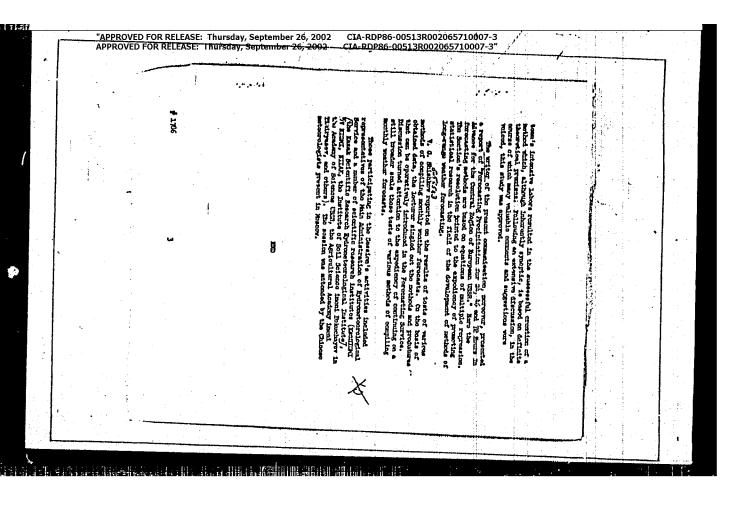
AVAILABLE: Library of Congress

MM /ksv 8-12-58

Card 10/10

	80; 073, Dept of Commerce, 073:60-11,042, TPRS L1078-8, 19 How 39, WELL.	The problems broaded by the locturers rounded a lively of opinions. A secondaries that the conclusions that meritod at sure achievled do to concrete consistent and enhanced the problems and enhanced in practice.  The report of h. F. Forniers touched upon the problems the tracket of the superconduction of the Navis to provide conductions of the control of the formation to because the problems of the formation observations by a large and field) researches and thematic observations by a large and field.	1	pure reports received strention at the ACTICULUM. Received of the Scientific Council.  290/16 bearing and a a bestimation described the results of the action of the second of the council of three-year experimental studies accounted by a large team of three-year experiments studies the second of soil soisture, requested for formation of the second of spring these and corn and and the relationship between the section of spring the stoppe regions of the mater empty receivities on wirgin lands - in the stoppe regions of the mater empty seconditions on wirgin lands.	 PROFESSIONE CONTROL OF THE SCIENCE CONCELL  OF THE CHARACTER OF THE SCIENCE OF TH	Ogot 5563-4		
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501/50-59-5-20/22

3(7) AUTHOR: Zverev, N. 1.

TITLE:

Final Meeting of the Scientific Council of the Central Institute of Prognosis (Itogovaya sessiya Uchenogo soveta Tsentralinogo instituta prognozov)

Meteorologiya i gidrologiya, 1959, Nr 5, pp 61 - 62 (USSR)

ABSTRACT:

PERIODICAL:

On January 12-20, 1959, a meeting of the Scientific Council took place at the Tsentral nyy institut prognozov (Central Institute of Prognosis). It was dedicated to the final results in the fulfilment of the plan for scientific research work. 3 reports were delivered in the Agrometeorological Section of the Scientific Council. L. A. Razumova and S. B. Mastinskaya put forward the results of the three-year experimental work at which the formation of ground humidity reserves and the correlation between the state of the summer wheat and corn and the water supply in the newly won land (the steppe areas of the Kulunda Steppe and of northern Kazakhstan) were investigated. S. B. Mastinskaya, N. B. Meshcha-Yu. S. Mel'nik, N. A. Baybayeva et al participated directly in the working out of this subject. Co-workers of the

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SOV/50-59-5-20/22

Final Meeting of the Scientific Council of the Central Institute of Prognosis

following organizations took part in the investigations: Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Kazakh Hydrometeorological Scientific Research Institute), Novosibirskiy biologicheskiy institut (Novosibirsk Biological Institute), Kazakhskiy institut im. Vil'yamsa (Kazakh Institute imeni Vil'yams), Kazakhskiy institut zernovogo khozco-workers of the agrometeorological stations. B. P. Ponomarev yaystva (Kazakh Institute of Grain spoke on the evaluation of agrometeorological conditions for the of summer wheat in the area of the RSFSR. 7 reports were delivered in the Hydrological Section of the Scientific Council. The most important results were obtained by V. D. Komarov, A. N. Vazhnov, and A. I. Karakash. V. N. Parshin and Ye. G. Popov worked out a new method for the evaluation of hydrological forecasts. A. I. Afanas yev presented conclusions on the features of the decay of the snow cover on the basis of an interpretation of aerial photographs during the melting of snow. 7 reports were delivered in the Meteorological Section. F. I. Monakhov put forward the results of experimental investiga-

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CIA-RDP86-00513R002065710007-3

CIA-RDP86-00513R002065710007-3 tions for the determination of cyclones on the high sens by the for of cyclones of the method used for forecasts of the for onov the microseismic recording, for forecasts of used G. Leonov means of microseismic reduced by A. D. Chistyskov in Antarctic means of microseismic by O. R. Glazova, A. D. Chistyskov the Antarctic means tesults by O. R. Stitudes of circulation above the features of altitudes of circulation of work of a sense temperature in high satures of the results of work of reported on the features are not the results of vicinity of the results of vicinity of the results of work of a sense of the features are not the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the results of vicinity of the method used to the method u Institute of Prognosis reported on the features of circulation above the Antarctic of a group the features of circulation above work of a group weather forezone. Yu. V. Khrabrov presented the results of weather forezone. of collaborators in working out a new method of weather zone. Yu. V. Khrabrov presented the results of weather norm of veather norm of collaborators in working out a new method a report on the Cen of collaborators N. I. Zverey delivered 72 nours in the Cen casts for 3-7 days. The control of precipitations for 24, 46 and 72 nours in the control of collaborators of precipitations for 24, 46 and 72 nours in the control of collaborators. casts for 3-7 days. N. I. Zverey delivered a report on the Central nours in the central for 24, 46 and 72 nours in report of Shishkov reports of Shishkov reports of the USSE. for the compilation of the USSE. for the compilation of the European Area of various methods was attended by represent the test results of various meeting was attended by represent the test results of various meeting was attended by monthly weather forecasts. on the test results of various methods for the compilation of attended by representing authorities: Glavnove upravlenive monthly weather forecasts authorities: of the hydrometeorologic tetives of the following Administration of the hydrometeosluzhby (Main Administration of Edward Compilation of the hydrometeosluzhby (Main Administration of the hydrometeosluzhby Edward Compilation of the com tatives of the following authorities: Glavnove upravlenive tutives of the following Administration of the Hydrometeorologics (Main Administration of the Hydrometeorologics) (Main NICMI, NIIAK, Institut pochwowedeniva gidrometeosluzhby (Main NICMI, NIIAK, Institut pochwowedeniva Service), Kaz-MICMI, DV NICMI, NIIAK, Institut pochwowedeniva Service, NIIAK, NIIAK, Institut pochwowedeniva Service, NIIAK, N gidrometeosluzhby (Main Administration of the Hydrometeorological Administration of the Hydrometeorological Administration of the Hydrometeorological Administration of the Hydrometeorological Andrews AN ISSR (Institute of Soil Science imenical Andrews AN Institute of Soil Science akademiya in Dokuchayeva AN USSR), Seliskokhozyayatvennaya akademiya imenical AS USSR), Seliskokhozyayatvennaya akademiya akademi im. Dokushayeva AN SSSR (Institute of Soil Science imeni Do-sel skokhozyaystvennaya akademiya in kuchayev of the AS USSR), Sel skokhozyaystvennaya card 3/4

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3 Final Meeting of the Scientific Council of the Central Institute of Prognosis

SCV/50-59-5-20/22

Timiryazeva (Agricultural Academy imeni Timiryazev). Besides, Chinese meteorologists staying in Moscow were present.

Card 4/4

PHASE I BOOK EXPLOITATION

Moscow. Tsentral'nyy Institut prognozov

- Voprosy dolgosrochnykh prognozov pogody (Problems in Long-Range Weather Forecasting) Mosqow, Gidrometeolzdat (otd.), 1959. 62 p. (Series: Its: Trudy, vyp. 85) Errata slip inserted. 900 copies printed.
- Sponsoring Agency: USSR. Sovet ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.
- Ed. (Title page): G. I. Morskiy; Ed. (Inside book): L. V. Blinnikov; Tech. Ed.: T. Ye. Zemtsova,
- PURPOSE: This issue of the Institute's Transactions is intended for scientific research and field workers in meteorology as well as for advanced students in schools of higher education.
- COVERACE: This is a collection of three articles in synoptic and general meteorology. Two of the articles deal with problems concerning the general circulation of the atmosphere while the third discusses the matter of forecasting mean 7-day pressure maps. Reference accompany each article.

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Problems in Long-Range (Cont.)

SOV/3249

TABLE OF CONTENTS:

Bayev, V. K. On the Theory of the General Circulation of the Atmosphere The author attempts a theoretical description of the general circulation in the most general statement of the problem. This entails, first of all, the consideration of nonlinear and viscosity members in differential equations, and also the consideration of the nonadiabatic effects which play a basic role in the general circulation of the atmosphere. This work differs from others on the problem insofar as the author pays stricter attention to the dependence of the thermal properties of the underlying surface on geographic coordinates. Computations are introduced to show that temperature in time and space as well as all elements of motion may be determined when the initial distribution of meteorological elements and the heat influx from the Sun, as a function of time, are known. There are 4 references: 3 Soviet and 1 English.

Zverev, N. I. Forecasting a Mean AT 500 Seven-day Chart Since most extended forecasts do not deal with weather conditions to be expected in the week immediately following the date of chart compilation, the author presents a statistical method of compiling mean 7-day charts. The author works on the basic premise that the development of synoptic processes in the future is completely determined by the history of synoptic processes over a given region. There are 7 references: A Soviet and 3 English.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

"AVERBY III

Forecasting the mean seven-day topographic map of the 500 millibar absolute isobaric surface. Trudy TSIP no.85:27-39 (MIRA 12:8)

(Atmospheric pressure)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

CIA-RDP86-00513R00206710007-3

CIA-RDP86-00513R00206710007-3

CIA-RDP86-00513R00206710007-3

CIA-RDP86-00513R00206710007-3

CIA-RDP86-0051

Determining the degree of analogy between fields of meteorological elements by the use of the "Pogoda" electronic computer. Meteor. i gidrol. no.10:14-18 0 60. (MIRA 13:10) (Weather forecasting) (Electronic calculating machines)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

ZVEREV, N.I.; MORSKOY, G.I.

Analyzing the interaction of the atmosphere and the hydrosphere.

Meteor.i gidrol. no.5:37-41 My '61.

(Atlantic Ocean—Ocean temperature)

(Europe, Western—Atmospheric temperature)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED RELEASE, TWENDY-PURITY, 26, 2002 CIA-RDP86-00513R002065710007-3

Method of forecasting the H500 geopotential field for mean terms.

Trudy TSIP no.108:3-22 '61.

(Weather forecasting)

VASYUKOV, K.A.; ZVEREV, N.I.; PED!, D.A.

Use of the analogy principle in prognoses of synoptic processes and the weather for five days. Trudy TSIP no.116:13-23 '62. (MIRA 15:5)

(Weather forecasting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CLA-RDP86-00513R002065710007-3

VASYUKOV, K.A.; ZVEREV, N.I.; PED\*, D.A.

Forecasting synoptic processes for the current natural synoptic period by the use of analogues. Meteor. i gidrol. no.1:27-33 Ja (MIRA 15:1)

(Statistical weather forecasting)

## S/169/62/000/007/109/149 D228/D307

**AUTHORS:** 

Vasyukov, K. N., Zverev, N. I. and Ped', D. A.

TITLE:

Using the principle of analogousness when forecasting synoptic processes and the weather for five days

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 48, abstract 7B257 (Tr. Tsentr. in-ta prognozov, no. 116,

1962, 13-23)

TEXT: The N-500 values for a standard grid of points, located every 40 of latitude and 120 of longitude on the territory, bounded by 36°W, 84°E, 76°N, and 36°W, were taken from the average maps for natural synoptic processes (NSP) in January and February, 1938-1955. After this the signs of the geopotential differences, respectively characterizing the zonal and the meridional flow components. were determined for meridionally and latitudinally neighboring points. The values +1, 0, and -1 were respectively ascribed to positive, zero and negative differences. The resulting magnitudes of the meridional and the zonal wind components for all NSP were

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Using the principle ...

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printed on tape. The analogs of the N-500 averages for the parameters  $\rho_{\varphi}$  and  $\rho_{\lambda}$ , characterizing the similarity of fields with respect to their circulational features, were selected for the first 20 maps by means of the electronic computer "Pogoda". The values of  $\rho_{\varphi}$  and  $\rho_{\lambda}$  were calculated from the formulae:

$$\rho_{\varphi} = \frac{n_{\omega_{+}} - n_{\varphi_{-}}}{n_{\varphi_{+}} + n_{\varphi_{-}}}, \qquad \rho_{\lambda} = \frac{n_{\lambda_{+}} - n_{\lambda_{-}}}{n_{\lambda_{+}} + n_{\lambda_{-}}}$$

where  $n_{\varphi_+}$ ,  $n_{\varphi_-}$ ,  $n_{\lambda_+}$ ,  $n_{\lambda_-}$  is the number of cases when the signs of the meridional  $(n_{\varphi})$  and the zonal  $(n_{\lambda})$  flow components in two comparable N-500 fields of NSP do, or do not, coincide. The comparison of all NSP with the original 20 allowed the distribution of the degree of analogy for the fields of the 500-mb surface's January geopotential to be obtained from the parameters of  $\alpha$  and  $\alpha$ . It also Card 2/4

Using the principle ...

S/169/62/000/007/109/149 D228/D307

allowed the natural frequency of analogous processes to be exposed separately according to the development of the meridional and the zonal air-flow components. Utilizing the criterion  $\rho_{\phi}$  all processes can be divided according to their degree of analogy into three categories: the analog  $(\rho_{\phi} \geqslant 0.4)$ , the non-analog  $(\rho_{\phi} = -0.3, +0.4)$ , and the reverse analog  $(\rho_{\phi} \not = -0.3)$ . Utilizing the criterion  $\rho_{A}$ , too, we will obtain the analog  $\rho_{A} \geqslant 0.8$ , the non-analog  $\rho_{A} = 0.2 + 0.8$ , and the reverse analog  $\rho_{A} \geqslant 0.8$ , the criteria are established with a 10% guaranty. In practical work, when classifying all processes into three categories, the degree of guaranty should be established jointly according to both criteria for the analog  $\rho_{\phi} \geqslant 0.4$  and  $\rho_{A} \geqslant 0.6$ , the non-analog -0.3 ( $\rho_{\phi} < 0.4$  and  $0.2 < \rho_{A} < 0.6$ , and the reverse analog  $-\rho_{\phi} < 0.3$  and  $\rho_{A} < 0.2$ . Average estimates are given for the analogousness of subsequent pairs of NSP in relation to the degree of analogy of the original pairs of NSP with respect to  $\rho_{\phi}$  Card 3/4

Using the principle ...

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and  $\rho_{\rm g} = \rho_{\rm p} + \rho_{\rm h}$ . As the geometric likeness increases, the analogousness in the development of atmospheric processes in subsequent NSP grows generally. But in a number of examples it is shown, too, that the factor of geometric analogy, though it is of great significance in establishing the analogousness of atmospheric processes, does not always give practically valuable pointers to the future development of processes. In some cases originally similar processes subsequently change into non-analogs. Using modern computers it is possible by means of the analogy parameters of  $\rho_{\rm p}$ , and  $\rho_{\rm p} = \rho_{\rm p} + \rho_{\rm p}$  to take into account objectively the development history of atmospheric processes, to solve problems connected with the choice of analogs, and so forth, which is necessary in order to forecast the weather for 3 - 7 days. / Abstracter's note: Complete translation. 7

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## 5/169/62/000/007/110/149 D228/D307

Vasyukov, K. N., Zverev, N. I. and Ped', D. A. AUTHORS:

Application of empirical functions of influence for forecasting mean monthly air temperature anomalies TITLE:

Referativnyy zhurnal Geofizika, no. 7, 1962, 48-49, abstract 7B258 (Tr. Tsentr. in-ta prognozov, no. 116, PERIODICAL:

1962, 24-33)

TEXT: Particular synchronous and asynchronous (December-January, June-July) factors of correlation between the Moscow air temperature and the temperature (pressure) at a number of points were determined for January and July in order to investigate the influence of centers of atmospheric action (CAA) on the formation of mean monthly air temperature anomalies in the USSR's European territory and in order to derive possible prognostic relations (by preparing the equation of multiple regression). These points were chosen for the characteristic of the intensity of CAA and were located as follows: Ponta Delgada (Azores), Honolulu (Hawaiian Islands), Befollows:

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S/169/62/000/007/110/149 D228/D307

Application of empirical ...

ruferdur (Iceland), Irkutsk, Tashkent, and Petropavlovsk na Kamchatka. The correlative connections between the elements under consideration (all instances of air temperature and pressure anomalies over 50 years were taken into account) are small. The highest stability (for synchronous relations) is observed between the advection of the Azores anticyclone and the mean monthly temperature anomaly at Moscow. The relations obtained appear more distinctly in cases of greater temperature or pressure deviations at CAA, selected from all the 50-year data. Magnitudes are given for synchronous and asynchronous relations between the mean monthly air temperature anomalies at Moscow and the CAA, and between the mean monthly air temperature anomalies at Moscow and the mean monthly pressure anomalies at the CAA; values are cited, too, for the synchronous relations of the mean monthly Moscow air-temperature anomalies to the pressure anomaly differences between the main CAA. When allowance is made for the state at two CAA, the asynchronous relations between the mean monthly air temperature anomalies at Moscow and the pressure at the CAA are somewhat better than if just one CAA is taken into account. Allowance is made for the sim-Card 2/4

S/169/62/000/007/110/149 ical ... D228/D307

Application of empirical ...

ultaneous influence of all CAA by means of empirical functions of influence. The problem is simplified by finding the asynchronous relations (with a month's displacement) between the state of some CAA, expressed by fluctuations in the mean monthly air temperature anomaly at Ponta Delgada, Beruferdur, Honolulu, Irkutsk, and Tashkent, and the mean monthly air temperature anomaly on the USSR's European territory according to the data of 11 stations for 1900-1940 (Arkhangel'sk, Leningrad, Syktyvkar, Riga, Moscow, Yelabuga, Orenburg, Zemetchino, Volgograd, Rostov-on-Don, Odessa). Allowance for the influence of CAA on the temperature conditions of the USSR's European territory was made by dividing all the original data into warm (April -September) and cold (October-March) periods, whose empirical functions of influence were determined separately. Coefficients of the empirical functions of influence are cited for each of the 11 points on the USSR's European territory; they were obtained on the grounds of the data's climatic processing. The values of the mean monthly air temperature anomaly ( $\Delta$ t) predictable for each point and month are calculated from the multiple regression equation:  $\Delta t = \alpha_0 \Delta t_0 + \alpha_1 \Delta t_1 + \alpha_2 \Delta t_2 + \alpha_3 \Delta t_3 + \alpha_4 \Delta^{\Delta t_4}$ .

Application of empirical ...

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Here  $\alpha_0$ ,  $\alpha_1$ ,  $\alpha_2$ ,  $\alpha_3$ ,  $\alpha_4$  are the respective coefficients of the empirical functions of influence for a given station on the USSR's European territory and for the stations of each of the four CAA: the Azores and Honolulu highs, the Iceland low / Abstracter's note: It is assumed that 'nelandskoy' should read 'islandskoy' 7, the Siberian high for the cold season, and the Mid-Asiatic low for the warm season.  $\Delta t_0$ ,  $\Delta t_1$ ,  $\Delta t_2$ ,  $\Delta t_3$ ,  $\Delta t_4$  are the respective mean monthly air temperature anomalies at the same points for the preceding month. 18 out of 22 of the forecasts for the mean monthly / Abstracter's note: Complete translation. 7

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S/169/62/000/007/111/149 D228/D307

AUTHOR:

Zverev, N. I.

TITLE:

Forecasting the baric height field's evolution during

3 - 7 days

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 49, abstract 7B259 (Tr. Tsentr. in-ta prognozov, no. 116,

1962, 34-40)

TEXT: The author suggests a complex way of forecasting the evolution of the baric height field at the mean troposphere level for 3 - 7 days. The method contains the clements of theoretical and synoptic-statistical trends, from which ways of numerically forecasting the baric field for average periods are being currently developed. In accordance with G. I. Morskiy's theoretical model (Tr. Tsentr. in-ta prognozov, no. 49, 1957) the main equation is recorded in the form:

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Forecasting the baric ...

 $\frac{\partial \Delta H}{\partial t} + \alpha_1 \frac{\partial H}{\partial t} + \alpha_2 \frac{\partial H}{\partial x} + \alpha_3 \Delta H + \alpha_4 (H\Delta H) = \mathcal{E}(x, y, t)$ 

where H is the value of the N-500 geopotential;  $\Delta$  is the Laplacian sign;  $\alpha_1, \alpha_2, \alpha_3, \alpha_4$  are constants; and  $\mathcal{E}(x, y, t)$  is the arbitrary function, allowing the factors not taken into account in the equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to be estimated statistically. This equation is linearized equation to a certain function  $\overline{H}(x, y)$ , which may in a particular synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of a with respect to Chebyshev's polynomials, recorded in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the form of an analysis synoptic period. The solution is made in the

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Forecasting the baric ...

S/169/62/000/007/111/149 D228/D307

the interval from the original day increases, and that the influence of indices, characterizing the development of smaller-scale disturbances, diminishes. The method allows the baric field's evolution throughout a natural synoptic period to be calculated on the basis of average AT-500 charts for the period's tendency, i.e. it enables a natural synoptic period's peculiarities to be taken into account. Abstracter's note: Complete translation.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R002065710007-3" VASYUKOV, K.A.; ZVEREV, N.I.; PED!, D.A.

Application of empirical influence functions to prognoses of mean monthly air temperature anomalies. Trudy TSIP no.116:24-33 (MIRA 15:5)

(Atmospheric temperature) (Weather forecasting)

S/169/62/000/007/112/149 D228/D307 26, 2002 CIA-RDP86-00513R002065710007-3 September 26, 2002 CIA-RDP86-00513R002065710007-3 Possibility of applying L. Kletter's method of fore-casting charts of the mean three-day N-850 values Duytseva, M. A. and Zverey. N. I. Referativnyy zhurnal, Geofizika, no. 7, 1962, 49, al stract 7B260 (Tr. Tsentr. in-ta prognozov, no. 116, 1962, 65-66) ab-AUTHORS: TEXT: The method, suggested by L. Kletter (Praktische Erfahrungen Wetter-Wetter TITLE: prognosen, Arch. Meteorol., Geophys. und Bioklimatol. A, 1956, Bd. on conditions with the circulation conditions with the circulation is based on 9, H 2), was verified in conformity L. Kletter's method is based on territory. The latter the mean three the use of the linear regression equation, relating the mean three the use of the linear regression. PERIODICAL: over the USSR's European territory. L. Kletter's method is based on three-the use of the linear regression equation, relating the mean for the use of the linear regression entitled has on the initial day. The use of the values at 18 hrs on the initial day were deterday N-850 values to the values at 18 hrs on coefficients were deterday user's European part the regression coefficients. day N-850 values to the values at 18 hrs on the initial day. For the USSR's European part the regression coefficients were deterthe USSR's European part the regression the daily AT-850 chart mined by the method of least squares from the daily AT-850 charts. the USSR's European part the regression coefficients were deter-mined by the method of least squares from the daily AT-850 charts for Moscow, Leningrad, Kiev, and Sverdlovsk for January and July, dard 1/2

Possibility of applying ...

S/169/62/000/007/112/149 D228/D307

1950-1952. Out of 27 forecasts 15 proved to be correct in sign, the other 12 being incorrect. The method does not give the dynamics of the development of processes. The reason for the low justifiableness of the forecasts evidently consists of the fact that no adequate allowance is made for the regression equation's free term.

Abstracter's note: Complete translation.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

VASIUNCY, R. A. S. ZVEREY T. T. PED P. D. A.

Forecasting atmospheric processes by analogues for a natural synoptic period. Trudy TSIP no.12013-13 '63. (ETRA 16:6)

(Weather forecasting)

Forecast of AT500 of the northern hemisphere for 3 to 5 days.

Trudy TSIP no.120:44-48 '63. (MIRA 16:6)

(Weather forecasting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, N.I.; PURGANSKAYA, I.P.

Practical methods of the expansion of the field of meteorological elements in respect to Chebyshev polynomials. Trudy TSIP no.123: 78-86 '63. (MIRA 16:9)

ZVEREV, N.I., kand.fiz.-matem.rauk

Analysis of the characteristics of zonal circulation. Meteor. i gidrol. no.2:36-40 F 164. (MIRA 17:5)

1. TSentral'nyy institut prognozov.

VASYUKOV, K.A., kand. fiz.-matem. nauk; ZVEREV, N.I., kand. fiz.-matem. nauk; PED', D.A., kand. geograf. nauk

Rhythms in the atmosphere and some methods of evaluating them.
Meteor. i gidrol. no.1:47-49 Ja '65. (MIRA 18:2)

1. TSentral'nyy institut prognozov.

"APPROVED FOR RELEASE: Thursday, September 26, 2002
VASTUROV, K.A.; ZVEREV, N.I.; FED.

Statistical method of forecasting the air temperature and the quantity of precipitation for a month. Trudy TSIP no.139:22-28

165. (MIRA 18:6)

ACC NR: AT6033032

where © is the scalar potential of the magnetic field; Ho is the magnitude of the longitudinal field; Ho is the amplitude of the p-th harmonic of the helical field; r, O, z are coordinates. There follows a mathematical development for the case of a helical field with n = 2. The article gives detailed mechanical drawings of several of the main features of the equipment used, including a cross section view of the apparatus, details of the helical winding, and a block diagram of the feeding system. A further figure shows an oscillogram of the current flowing through the winding. The experimental data confirm the validity of the approach to the problem. "In conclusion the authors express their sincere thanks to M. S. Rabinovich for his continuing interest in the work and for his helpful discussions, as well as to He. P. Aleksandrov, V. I. Dudin, V. I. Kryykov, and V. P. Solov'yev who took part in the construction of the equipment, and to G. I. Os'kina who took part in the construction of the winding system." Orig. art. has: 5 formulas, 7 figures, and 1 table.

SUB CODE: 20/ SUEM DATE: none/ ORIG REF: 014/ OTH REF: 003

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R00206-3 CIA-RDP86-00513R002-3 CIA-RDP86-00513R002-3 CIA-RDP86-00513

Magnetic surfaces and the confinement of a plasma by helical fields in a stellarator with external injection. Dokl. AN SSSR 160 no.6: 1293-1295 F '65. (MIRA 18:2)

1. Submitted September 23, 1964.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R012055710007-23.

APPROVED KARSKIESE: Dursday, September 26, 2002 CIA-RDP86-00513R012055710007-23.

retsenzent; PETROV, A.I., retsenzent; KRISHTALI, L.I., red.

[Statistical accounting and the work analysis of a railroad branch] Statisticheskii uchet i analiz raboty otdeleniia dorrogi. Moskva, Izd-vo "Transport," 1964. 218 p.

(MIFA 17:5)

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065710007-3

PETROKANSKIY, B.I.; ZVEREV, N.P., retsenzent; MIZIN, V.I., retsenzent; FEIROV, A.I., retsenzent; KRISHTAL', L.I., red.; MURAV'YEVA, N.D., tekhn. red.

[Statistical accounting and the work analysis of a rail-road division] Statisticheskii uchet i analiz raboty otdeleniia dorogi. Moskva, Izd-vo "Transport," 1964. 218 p. (MIRA 17:3)

S/081/61/000/023/058/061 B106/B101

AUTHORS:

Reznikovskiy, M.M., Zverev, N.P., Denisova, L.L.

TITLE:

An improved chamber for laboratory tests of the ozone

resistance of rubbers

PERIODICAL:

Re rativnyy zhurnal. Khimiya, no. 23, 1961, 561, abstract

23 P 354. (Tr. N.-i. in-ta shin. prom-sti, sb. 7, 1960, 135-139)

TEXT: An installation guaranteeing satisfactory accuracy and reproducibility of measurements even at nonuniform 03 distribution in the working chamber is described. In order to exclude fluctuations in the 03 concentration, the case containing the samples revolves at a rate of 2 rpm. The contactless transmission of torque from the Warren motor is attained by means of a magnetic clutch. [Abstracter's note: Complete translation.]

Card 1/1

Zverev, N.S., Engineer AUTHOR:

807/133-58-10-26/31

TITLE:

On the Problem of Production of Deep Drawing Sheets for the Manufacture of Automobile Bodies (K voprosam proizvodstva avtolista dlya glubokoy vytyazhki)

: Stal', 1958, Nr 10, p 948 (USSR)

PERIODICAL:

ABSTRACT: The paper contains critical remarks on the previously published paper by G.D. Rogoza (Refs 1 and 2) in which the validity of Eriksen's test for deep drawing sheets was questioned. The present author considers that in order to supply quality sheets, the metal should be extensively tested on the producing works. There are 3 Soviet references.

Gor'kovskiy avtomobil'nyy zavod (Gor'kiy Automobile ASSOCIATION: Plant:)

Card 1/1

ZVEREV, N.S.

Selecting sheet steel for deep-drawing of body parts, Avt. i trakt. prom. no.10:40-41 0 '56. (MIRA 10:1)

1. Gor'kovskiy avtosavod imeni Molotova.
(Antomobiles-Bodies) (Sheet steel)

Using cold-rolled sheets of nonaged steels for stamping boly parts of passenger cars. Avt. i trakt. prom. no.6:31-32 Je '56. (MLRA 9:9)

1. Gor'kovskiy avtozavod imeni Molotova.
(Automobiles-Bodies) (Sheet steel)

AUTHOR:

Zverev, N.S.

30V-113-58-9-15/19

TITLE:

Tests of Imported and Domestic Cold-Rolled Plate for Automobile Bodies (Ispytaniya importnogo i otachestvennogo avtokuzovnogo kholodnokatanogo lista)

PERIODICAL:

Avtombil'naya promyshlennost', 1958, Nr 9, pp 38-40 (USSR)

ABSTRACT:

The Gor'kiy Motor Vehicle Plant, and also several other Soviet automobile plants, satisfied part of its requirements for cold-rolled plate for car production by imports. Especially the Gor'kiy plant obtained cold-rolled steel plate from the USA, England, West Germany and France. In order to compare the chemical analysis, mechanical properties and pressing results of the imported steel plate and that produced by the zavod "Zaporozhstal'" (Zaporozhstal'" Plant), tests of both kinds were carried out. The test results are presented on 4 tables: The percentage in the plate of carbon, manganese and sulphur (Table 1); yield point, elongation, relation between the yield point and the ultimate strength at rupture, hardness RB, extension by Erichsen cupping test in mm, grain size in ball-marks, waste at punching (Table 2), the same data for the angular body panels of the "Pobeda" car (Table 3) and stamping results for other parts (Table 4). The author

Card 1/2

SOV-113-58-9-15/19

Tests of Imported and Domestic Cold-Rolled Plate for Automobile Bodies

evaluates these results and strongly recommends their consideration in the establishment of relevant GOST standards for the motor vehicle plants.

There are 4 tables and 3 Soviet references.

ASSOCIATION: Gor'kovskiy avtozavod (The Gor'kiy Motor Vehicle Plant)

1. Automobile industry--USSR 2. Metal plates--Effectiveness

Card 2/2

"APPROVED FOR RELEASE. Thursday, September 26, 2002 a OXARDP88-00519R00206571000743 APPROVED FOR RELEASE. Thursday, September 26, 2002 CEA-RDP86-00519R002065710007-3" ... ... •• ... •• INFLUENCE OF FREE FERRITE ON IMPACT STRENCTH. N. S. Zyerey. Vestnik Metallopron. 14, 98-102(1934) (in Russian); Met Abstracts (in Metals and Alloys) 6, 506. Low impact strength observed in processing parts made of steel contg. C 0.34-0.39, Nn 0.33-0.48, S1 0.21-0.34 and Cr 0.42-1.125 was due to the presence of free ferrite either ... **...** ... <sub>≂</sub>• • not brought into soln, before quenching or quenched too slowly for retaining it in soln. G. G. ..● ● **300** 8 8 8 99 : ATAISE A BETALLURGICAL LITERABLER CLASSIFICATION Tide (10:11)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3

Testing imported and Russian made cold rolled sheets used for automobile bodies. Avt. prom. no.9:38-40 S \*\*158. (MIRA 11:10)

1.Gor kovskiy avtosavod. (Sheet steel--Testing)

ZVEREV, N.V.; SHYYDKO, Z.A., red.; GRABARNIK, A.Z., red.; TURABAYEV, B., tekhn.red.

[Kazakhstan in the seven-year plan] Kazakhstan v semiletke; sbornik statei i ocherkov. Alma-Ata, Kazakhskoe gos.izd-vo. 1960. 238 p. (MIRA 13:12) (Kazakhstan--Economic conditions) Z VAEPROVED FOR NELBASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007; VIIIIV. N.V., APPROVED FOR RESEASE THURSDAY POR POR CONTRIBUTION OF THE VALUE OF THE VALUE

[Kazakhstan is a republic of large-scale state farm production]

Kazakhstan-respublika krupnogo sovkhoznogo proisvodstva. Alma-Ata,

Kazakhskoe gos.izd-vo, 1956. 129 p. (MIRA 10:12)

(Kazakhstan-State farms)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
ZVEREV, Nikolay Vsail yevich, zmrnelist; MYAGKOV, M.M., red.;

RAKOV, S.I., tekhn.red.

[A factory committee and production potentials] Zsvkom
i rezervy proizvodstva. Moskva, Izd-vo VTsSPS Profizdat, 1959.
77 p.
(Balkhash--Copper industry) (Trade unions)

(Trade unions)

[New construction in Kasakhatan during the sixth five-year plan]
Novostroiki shestoi piatiletki Kasakhatana. Alma-ita, Kasakhakoe
gos.izd-vo, 1957. 134 p. (MLRA 10:9)

(Kasakhatan--Industries) (Kasakhatan--Building)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710007-3
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ZVEREV, Nikolay Vasillyavich; MATSKEVICH, Oleg Vasillyavich; PRIKHOD'KO, S., red.

[Kazakhstan, the country of eagle's wings]Kazakhstan - strana orlinykh kryl'yev. Alma-Ata, "Kazakhstan", 1965.

172 p. (MIRA 18:12)

ZVEREV, O.S., otv. red.; MOSKOVSKAYA, L.M., red. izd-va; ZENDEL', M.Ye., tekhn. red.

[Fishes of the Usa River basin and their feeding resources] Ryby basseina r.Usy i ikh kormovye resursy. Moskva, Izd-vo Akad. nank SSSR, 1962. 274 p. (MIRA 15:6)

1. Akademiya nauk SSSR. Komi filial, Syktyvkar. (Usa Valley-Fishes)