APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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CHEBOTAREV, G.A.; MAKAROVA, Ye.N.

Preliminary orbit elements of the first Soviet orbital space-ship (1960 ε). Biul. sta. opt. nabl. isk. sput. Zem. no.30: 19-22 '62. (MIRA 16:6)

1. Institut teoreticheskoy astronomii AN SSSR, otdel prikladnoy nebesnoy mekhaniki.
(Artificial satellites—Orbits)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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L 19341-63 EPA(b)/EWT(1)/FCC(w)/FS(v)-2/BDS/ES(v) AFFTC/AFMDC/ESD-3/SSD/
APGC Pd-4/Pe-4/Pi-4/Po-4/Pq-4 TT/GW S/0269/63/000/005/0009/0009
ACCESSION NR: AR3002033

SOURCE: RZh. Astronomiya. Otdel'nyy vypusk. Abs. 5.51.113

AUTHOR: Chebotarev, G. A.; Makarova, Ye. N.

TITLE: Preliminary orbital elements of the cabin of the fourth Soviet artificial earth satellite (1960 $\varepsilon_3$)

CITED SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 28, 1962, 11-13

TOPIC TAGS: artificial earth satellite, orbital element

TRANSLATION: The authors give the mean equatorial orbital elements for the cabin of the fourth Soviet artificial satellite from 5 October to 27 December 1961 and their secular perturbations. These data were obtained by processing about 3,000 observations made by 89 Soviet and foreign stations. N. Ya.

ENCL: 00

SUB CODE: AI

DATE ACQ: 30May63

Card 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 19342-63 EPA(b)/EWT(1)/FCC(w)/FS(v)-2/BDS/ES(v) AFFTC/AFMDC/ESD-3/
APGC/SSD Pd-4/Pe-4/Pg-4/Pi-4/Po-4/Pq-4 TT/GW

ACCESSION NR: AR3002032 S/0269/63/000/005/0008/0008

SOURCE: RZh. Astronomiya. Otdel'nyy vypusk. Abs. 5.51.112

AUTHOR: Chebotarev, G. A.; Makarova, Ye. N.

TITLE: Preliminary orbital elements of the cabin of the first space ship (1960 $\varepsilon_3$)

CITED SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 27, 1962, 36-41

TOPIC TAGS: satellite orbital elements

TRANSLATION: The authors present a summary of the mean equatorial elements of the orbit of the cabin of the first Soviet space ship (1960 $\varepsilon_3$), as well as their daily variations from 13 June to 27 September 1961. The elements were determined on the basis of 563 visual and preliminary photographic observations by Soviet and foreign stations. Simplified formulas are given for transforming mean into osculating elements and ways to compare theory and observations. There is a bibliography of 7 items. N. Yakhontova

DATE ACQ: 30May63 SUB CODE: AI ENCL: 00

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.N., Cand Phys Math Sci -- (diss) "~~Concerning~~ On the simultaneous determination of ~~the~~ masses of large planets and ~~of the~~ systematic errors of stellar catalogues ~~from~~ on the basis of observations of small planets." Len, 1959, 8 pp (Acad Sci USSR. Main Astronomical Observatory) 150 copies (KL, 36-59, 111)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.N.

Simultaneous determination of systematic errors in stellar catalogs and of masses of planets derived from observation of asteroids. Biul.Inst.teor.astron. 7 no.1:1-18 '58. (MIRA 13:4)

(Planets, Minor--Observations) (Mechanics, Celestial)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

TER-KARAPETYAN, M.A., akademik; MAKAROVA, Ye.N.

Cultural characteristics of the effect of biotin and nitrogen source on the accumulation of gamma-aminobutyric acid in yeast. Dokl. AN Arm. SSR 40 no.2:117-121 '65.

(MIRA 18:5)

1. Armyanskiy nauchno-issledovatel'skiy institut zhivotnovodstva i veterinarii Ministerstva sel'skogo khozyaystva ArmSSR i Institut mikrobiologii AN ArmSSR. 2. AN ArmSSR (for Ter-Karapetyan). Submitted July 4, 1964.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.N.; OGANESYAN, S.P.

Effect of vitamins of the B group on the reproduction of yeast. Izv. AN Arm. SSR. Biol. nauki 16 no.3:45-53 Mr '63. (MIRA 17:10)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva i veterinarii Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov ArmSSR i Institut mikrobiologii AN ArmSSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

TER-KARAPETYAN, M.A.; MAKAROVA, Ye.N.

Effect of group B vitamins on the free amino acids of some yeast species of the genus Candida. Izv. AN Arm. SSR. Biol. nauki 17 no. 1:27-36 Ja '64. (MIRA 17:7)

1. Armyanskiy nauchno-issledovatel'skiy institut zhivotnovodstva i veterinarii i Institut mikrobiologii AN Armyanskoy SSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye. N.

KOLESOV, V.I., professor (Leningrad, [illegible], kv. 5); MAKAROVA, Ye.N.; SARAYEVA, A.N.

Efficient use of antibiotics [illegible] control [illegible], the treatment of infected [illegible]. Vest.khir. 76 no.5:13-21 Ap '57. (MIRA 10:[illegible])

1. Iz fakul'teta khirurgicheskoy [illegible] (zav. - prof. V.I.Kolesov) 1-g. Leningradskogo [illegible] Pavlova
(WOUNDS AND INJURIES, [illegible]
infect. [illegible] (A[illegible])
(ANTIBIOTICS, [illegible]
was. infect. (A[illegible])

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

KAKHETELIDZE, M.G.; MAKAROVA, Ye.M.

Change in the hemopoietin content of the blood serum following blood loss. Probl. gemat. i perel. krovi no.12: 50-53'62. (MIRA 16:8)

1. Iz patofiziologicheskoy laboratorii (zav. - chlen-korrespondent AMN SSSR prof. N.A.Fedorov) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (direktor dotsent A.Ye. Kiselev) Ministertva zdravookhraneniya SSSR.
(HEMOPOIETIC SYSTEM) (BLOODLETTING)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

YEDEMSKIY, L.M. [translator]; BASISTOV, A.G., redaktor; MAKAROVA, Ye.M., redaktor; PINYAGIN, N.B., redaktor; ALEMANOVA, N.S., vedushchiy redaktor; TROFIMOV, A.B., tekhnicheskiy redaktor

[Technological systems of the processes of refining oil in the United States] Tekhnologicheskie skhemy protsessov pererabotki nefti v SShA. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 131 p. (MLRA 9:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnicheskoy informatsii i ekonomiki neftyanoi promyshlennosti.
(United States--Petroleum--Refining)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

POMINOV, I.S.; MAKAROVA, Ye.K.

Study of solutions of cobalt halides in organic solvents at low temperatures from the irabsorption spectra. Ukr. fiz. zhur. 9 no. 5:502-512 My '64. (MIRA 17:9)

1. Kazanskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

POMINOV, I.S.; MAKAROVA, Ye.K.

Absorption spectra of cobalt chloride solutions in organic solvents at low temperatures. Zhur.neorg.khim. 9 no.1:94-98 Ja '64. (MIRA 17:2)

1. Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-Lenina.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 46832-66 EWT(m)/EWP(j)/EWP(t)/ETI IJP(c) JD/RM

ACC NR: AR6013638 SOURCE CODE: UR/0058/65/000/010/D049/D049

50
B

AUTHOR: Makarova, Ye. K.; Pominov, I. S.

REF SOURCE: Sb. Itog. nauchn. konferentsiya Kazansk. un-ta za 1963 g. Sekts.: paramagnitn. rezonansa, spektroskopii i fiz. polimerov, radiofiz., astron., bion. Kazan, 1964, 45-49

TITLE: The temperature dependence of the absorption spectrum of cobalt chloride in acetone and the binding energies of cobalt ions with molecules of the solvent

SOURCE: Ref. zh. Fizika, Abs. 10D340

TOPIC TAGS: absorption spectrum, nuclear binding energy, temperature dependence

TRANSLATION: It is shown that for solutions of $CoCl_2$ in acetone the absorption increases with decrease in temperature in the 400-800 mμ range (except in the 720-760 mμ range). Absorption decreases in the 600-700 mμ range when $CoCl_2$ is dissolved in alcohol. This is explained as due to the stability of the cobalt-halogen complexes in the first case, while in the second case the chloride ion complexes can be substituted by the molecules of the solvent at the lower temperatures. The stability of the complexes is established by the change in enthalpy of solutions, and the following sequence was established: methanol>ethanol>butanol>propanol>iso-butanal (iso-butyl alcohol).

SUB CODE: 20/ ~~SUBM DATE: none~~

Card 1/1 BLG

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 49770-65
ACCESSION NR: AR5012847

Ultraviolet region of the spectrum. The effect of temperature and of addition of lithium halides on the absorption spectra of copper halides (II) is compared.

SUB CODE: OP, IC ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 49770-65 UR/0058/65/000/003/D030/D030

ACCESSION NR: AR5012247

16
B

SOURCE: Ref. Zh. Fizika, Abs. 3D219

AUTHORS: Makarova, Tr. K.; Pominov, I. S.

TITLE: Effect of temperature on the absorption spectra of solutions of halides of copper (II)

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 608-617

TOPIC TAGS: copper halide, temperature effect, absorption spectrum, infrared spectrum, ultraviolet spectrum

TRANSLATION: The absorption spectra of $CuCl_2$ and $CuBr_2$ in alcohols, acetonitryl, and formamide and of the same solutions with LiCl and LiBr were investigated in the temperature interval from room temperature to -ЕРОС in the ~ 0.35--2 μ region. A decrease in the temperature of alcohol solutions leads to a change in the magnitude of the absorption and to a shift in the maximum of the absorption in the near infrared region and of the absorption edge of the continuous absorption in the near

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

LABUTIN, A.L.; MAKAROVA, Ye.I.; SEMENOV, A.A.

Use of butyl rubber in anticorrosion rubbers. Kauch.i rez. 22 no.2:19-21 F '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni Lebedeva.
(Butyl rubber)
(Corrosion and anticorrosives)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

22005

S/076/61/035/004/013/018
B106/B201

Problem of a higher hydrogen ...

| t, °C | $\frac{1}{T}\cdot 10^3$, °K$^{-1}$ | k, мин.$^{-1}$ | lg k | t, °C | $\frac{1}{T}\cdot 10^3$, °K$^{-1}$ | k, мин.$^{-1}$ | lg k |
|---|---|---|---|---|---|---|---|
| (a) Метод равномерного нагревания | | | | (b) Метод постоянных температур | | | |
| —100 | 5,78 | 0,00268 | —2,572 | —100 | 5,78 | 0,0088 | —2,056 |
| —96 | 5,65 | 0,00337 | —2,472 | —92 | 5,53 | 0,0152 | —1,818 |
| —93 | 5,56 | 0,00330 | —2,482 | —78 | 5,13 | 0,0184 | —1,735 |
| —91,5 | 5,50 | 0,00359 | —2,445 | —55 | 4,58 | 0,0291 | —1,536 |
| —80 | 5,19 | 0,00390 | —2,408 | —54 | 4,57 | 0,0231 | —1,636 |
| —67 | 4,86 | 0,00470 | —2,328 | —50 | 4,45 | 0,0385 | —1,414 |
| —57 | 4,64 | 0,00950 | —2,022 | —41 | 4,31 | 0,0831 | —1,080 |
| —50 | 4,61 | 0,0117 | —1,932 | | | | |
| —48 | 4,45 | 0,0400 | —1,398 | | | | |
| —43 | 4,35 | 0,0948 | —1,024 | | | | |

Table: (a) method of uniform heating, (b) method of constant temperature.

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22005
S/076/61/035/004/013/018
B106/B201

Problem of a higher hydrogen ...

condensate is due to the decomposition of the $H_2O_4$ compound, which takes place by different mechanisms in the solid and in the liquid state. Mention is made of Ye. N. Yeremin, who took part in the work of Ref. 7 together with L. I. Nekrasov and N. I. Kobozev. There are 3 figures, 1 table, and 17 references: 7 Soviet-bloc and 10 non-Soviet-bloc. The three most recent references to English language publications read as follows: M. A. P. Hogg, J. E. Spice, J. Chem. Soc., Sept., 3971, 1957; J. A. Gormley, J. Amer. Chem. Soc., 79, 1862, 1957; R. L. Livingston, J. A. Gormley, H. Zeldes, J. Chem. Phys., 24, 483, 1956.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: July 28, 1959

Card 4/5

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

22005
S/076/61/035/004/013/018
B106/B201

Problem of a higher hydrogen ...

the second more intensive stage of decomposition takes place, at which the chief oxygen amount escapes. The decomposition is completed at -40 to -30°C. Between -110 and -100°C a hardly noticeable step appears in the curve of gas separation, which characterizes a weak decomposition process in which about 3% of the total oxygen is generated. This weak decomposition is accompanied by the disappearance of the yellowish color and by a modification of the condensate structure: the condensate becomes opaque and begins to melt in places. An analysis of the kinetic curve, taken under isothermal conditions, showed the two-stage decomposition reaction in the temperature range -95 to -40°C to be a reaction of first order. The activation energy amounts to 1.2-1.4 kcal for the first stage of decomposition (with condensate in the solid state), but 8.0-9.0 kcal for the second stage of decomposition. The results substantiate the earlier assumption of the higher hydrogen peroxide $H_2O_4$ being contained in the condensate. The authors reach the conclusion that the assumption put forth by H. Ohara some time ago (Ref. 6) is still the most probable explanation accounting for the results obtained. According to this assumption, the two-stage aspect of the decomposition of the peroxide radical

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22005

S/076/61/035/004/013/018
B106/B201

Problem of a higher hydrogen ...

studied the decomposition kinetics of such condensates, which were prepared in an apparatus described earlier (Ref. 5: Zh. fiz. khimii, 31, 1843, 1957; Ref. 11: Zh. fiz. khimii, 32, 87, 1958). The water vapor entered the discharge tube at a rate of 1.4 g/hour and a pressure of 0.5 mm Hg. The discharge amperage was 0.2 a, the voltage 1000-1200 v. The cooling trap was cooled with liquid nitrogen. 0.7-0.8 g were the initial amounts of condensate in all experiments. The condensate composition was the same in all experiments; the molar ratio between oxygen generating from decomposition and remaining hydrogen peroxide was always 0.15, the concentration of $H_2O_2$ in the final solution was 50 percents by weight.

The decomposition of the condensates was studied in an experimental system that had been likewise described earlier. The decomposition of the peroxide radical condensates with slow heating was found to take place essentially in two stages with different temperature coefficients and different activation energies. The first noticeable separation of oxygen takes place between -95 and -70°C for about 17% of the total oxygen formed. The solid condensate starts melting at -70°C; this process comes to an end at -60°C. In this temperature range, and also on a further heating,

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22005
S/076/61/035/004/013/018
B106/B201

11.1310 also 2114

AUTHORS: Skorokhodov, I. I., Nekrasov, L. I., Kobozev, N. I., and Makarova, Ye. I.

TITLE: Problem of a higher hydrogen peroxide and frozen radicals

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 4, 1961, 905 - 910

TEXT: III. Kinetics of the decomposition of peroxide radical condensate formed from dissociated water vapors

By peroxide radical condensates the authors designate the products formed by freezing out water- and hydrogen peroxide vapors after dissociation in an electric discharge, and also by the reaction of atomic hydrogen with oxygen or liquid ozone at very low temperatures. Data available in the literature concerning the kinetics of decomposition of these peroxide radical condensates with temperature rise contradict one another as to important items (Ref. 6: E. Ohara, J. Chem. Soc. Japan, 61, 569, 1940; Ref. 7: L. I. Nekrasov, Dis. MGU, 1951; Ref. 8: R. A. Jones, C. A. Winkler, Canad. J. Chem., 29, 1010, 1951). For this reason, the authors

Card 1/5

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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BERNATSKIY, Yu.P., rukovoditel' raboty; ITKINA, D.Ya.; URUSOV, V.V.; MAKAROVA, Ye.I.; SHPUNT, S.Ya.; NAYDENOVA, V.A.; PASTUKHOVA, M.G. KOKINA, Z.V.; VODZINSKAYA, Z.V.; LAPSHINA, L.V.; VAS'YANOV, V.P.; KUSHNIR, G.F.; NIKITINA, N.A.

Decomposition of phosphogypsum into lime and sulfur dioxide in a sevenmeter rotary kiln. [Trudy] NIUIF no.160:152-180 '58. (MIRA 12:8)

1.Sotrudniki Nauchnogo instituta po udobreniyam i insektofungisidam (for Bernatskiy, Itkina, Urusov, Makarova, Shpunt, Naydenova, Pastukhova, Kokina, Vodzinskaya). 2.Sotrudniki Opytnogo zavoda Nauchnogo instituta po udobreniyam i insektofungisidam (for Lapshina, Vas'yanov, Kushnir, Nikitina).

(Gypsum) (Lime) (Sulfur dioxide)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, YE. I.

KOBOZEV, N.I.; SKOROKHODOV, I.I.; NEKRASOV, L.I.; MAKAROVA, Ye.I.

Physical chemistry of concentrated ozone. Part 2: A study of the synthesis of the highest peroxide of hydrogen $H_2O_4$ by the reaction between concentrated ozone with atomic hydrogen [with summary in English]. Zhur.fiz.khim.31 no.8:1843-1850 Ag '57. (MIRA 10:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Peroxides) (Hydrogen) (Ozone)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, YE. I.

"Physicochemical Investigations of Chlorides of Bivalent Copper." Sub 29 Jun 51, Sci Inst of Fertilizers and Insectofungicides of the Main Chemical Industry.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.I.; FREYDIN, G.S.

Standardization of a method for measuring blood pressure in children. Pediatriia no.6:41 '61. (MIRA 14:9)

1. Iz otdela razvitiya i vospitaniya (zav. - chlen-korrespondent AMN SSSR prof. H.M. Shchelovanov) Instituta pediatrii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-Ponomareva) i Vsesoyuznogo nauchno-issledovatel'skogo instituta meditsinskogo instrumentariya i oborudovaniya (dir. - kand.tekhn.nauk I.P. Smirnov).

(BLOOD PRESSURE)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.I.; KRYLOVA, O.M.

Use of Galperin's method in diagnosing infectious diseases. Zhur.mikrobiol.epid. i immun. 30 no.5:140 My '59. (MIRA 12:9)

1. Iz Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(DIAGNOSIS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.I

MAKAROVA, Ye.I.

Modern methods for the microbiological diagnosis of epidemic hepatitis (Botkin's disease). Trudy LSGMI 30:91-96 '56. (MLRA 10:8)

1. Kafedra mikrobiologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. M.N.Fisher)
(HEPATITIS, INFECTIOUS, diagnosis,
agglut. of bact. adsorbed viruses (Rus))

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.I.

Blood pressure in infants. Report No. 2: Some data on neural regulation of blood pressure during the first year of life. Pediatriia no.1:59-62 Ja-F '55. (MLRA 8:5)

1. Iz laboratorii vysshey nervnoy deyatel'nosti rebenka (zav. chlen-korrespondent AMN SSSR prof. N.I.Kasatkin) Otdela razvitiya i vospitaniya (zav. chlen-korrespondent AMN SSSR prof. N.M.Shchelovanov) Instituta pediatrii ordena Trudovogo Krasnogo Znameni AMN SSSR (dir. prof. M.N.Kazantseva).

(BLOOD PRESSURE, physiology,
in inf., variations during feeding)
(INFANT NUTRITION,
blood pressure variation during inf. feeding)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.I.

Precipitation reaction of SB culture with sera from patients with infectious hepatitis. Preliminary report. Trudy LSGMI 46:13-18 '59. (MIRA 13:11)

1. Kafedra mikrobiologii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta i laboratoriya Bol'nitsy imeni Botkina (zav. kafedroy i laboratoriyey - prof. M.N.Fisher).

(HEPATITIS, INFECTIOUS) (STREPTOCOCCUS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye. I.

Blood pressure in infants; ontogenesis and growth factors in modifications of blood pressure in infant during the first year of life. Pediatriia, Moskva no.6:30-34 Nov-Dec 1953. (CIML 25:5)

1. Communication 1. 2. Of the Laboratory of the Higher Nervous Activity of the Child (Head -- Prof. N. I. Kasatkin, Corresponding Member Academy of Medical Sciences) of the Department of Development and Education (Head -- Prof. N. M. Shchelovanov, Corresponding Member AMS USSR) of the Order of the Red Banner of Labor Institute of Pediatrics (Director -- Prof. M. N. Kazantseva) of the Academy of Medical Sciences USSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye. I.

"Some Date on the Ontogenetic and Chronological Investigation of the Blood Pressure of Children During the First Year of Life." Cand Med Sci, Acad Sci USSR, Moscow, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

11-f

ca

**Relation between the carbonic anhydrase content of the blood of children in the first year of life and their daily care and feeding.** E. I. Makarova. *Byull. Eksptl. Biol. Med.* 23, 300-1(1947).—The carbonic anhydrase content in the blood of 5 children of less than one year was detd. in order to find out whether there is any connection between the amount of this enzyme in the blood and certain oxidation processes and abnormal physiol. states of these young patients. The detns. were made by Brinkmann's method for 6-8 days before and after the morning meal and during sleep at night. Carbonic anhydrase content is not affected by food or the time of the day; it depends on the no. of erythrocytes as detd. by the counting-chamber method. W. R. Bichler

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

KONDRAT'YEV, S.N.; ILLARIONOV, V.V.; AMELIN, A.G.; MAKAROVA, Ye.I.

Preparation of stabilized sulfuric anhydride under pilot-plant conditions. Trudy MKHTI no.30:205-212 '62. (MIRA 16:10)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.G., inzh.; STAROSTENKOVA, A.V., inzh.

Centenary of the "Iskra Oktiabria" linen mill. Tekst.prom. 19 no.8:64-66 Ag '59. (MIRA 13:1)
(Kostroma--Linen)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

ALEKSANDROV, B.M. --- (continued) Card 2.

1. Russia (1917- R.S.F.S.R.) Karel'skiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. 2. Karel'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta ozernogo i rechnogo rybnogo khozyaystva (for Aleksandrov, Aleksandrova, Belyayeva, Gorbunova, Gordeyeva-Pertseva, Gordeyeva, Gulyayeva, Dmitrenko, Zabolotskiy, Makarova, Novikov, Pokrovskiy, Smirnov, Stefanovskaya, Urban). 3. Karel'skiy filial AN SSSR (for Balagurova, Veber, Potapova, Sokolova, Filimonova, Popenko).

(Karelia--Lakes)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

ALEKSANDROV, B.M., nauchnyy sotrudnik; ALEKSANDROVA, T.N., nauchnyy sotrudnik; BELYAYEVA, K.I., nauchnyy sotrudnik; GORBUNOVA, Z.A., nauchnyy sotrudnik; GORDEYEVA-PERTSEVA, L.I., nauchnyy sotrudnik; GORDEYEVA, L.N., nauchnyy sotrudnik; GULYAYEVA, A.M., nauchnyy sotrudnik; DMITRENKO, Yu.S., nauchnyy sotrudnik; ZABOLOTSKIY, A.A., nauchnyy sotrudnik; MAKAROVA, Ye.F., nauchnyy sotrudnik; NOVIKOV, P.I., nauchnyy sotrudnik; POKROVSKIY, V.V., nauchnyy sotrudnik; SMIRNOV, A.F., nauchnyy sotrudnik; STEFANOVSKAYA, A.F., nauchnyy sotrudnik; URBAN, V.V., nauchnyy sotrudnik. Prinimali uchastiye: BALAGUROVA, M.V., nauchnyy sotrudnik; VEBER, D.G., nauchnyy sotrudnik; POTAPOVA, O.I., nauchnyy sotrudnik; SOKOLOVA, V.A., nauchnyy sotrudnik; FILIMONOVA, Z.I., nauchnyy sotrudnik; POPENKO, L.K., nauchnyy sotrudnik. ZYTSAR', N.A., red.; PRAVDIN, I.F., red.; PANKRASHOV, A.P., red.; SHEVCHENKO, L.V., tekhn.red.

[Lakes of Karelia; natural features, fishes, and fisheries] Ozera Karelii; priroda, ryby i rybnoe khoziaistvo; spravochnik. Petrozavodsk, Gos.izd-vo Karel'skoi ASSR, 1959. 618 p. (MIRA 13:8)

(Continued on next card)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROV, Ye.F.

DUBOVSKIY, B.G.; KAMAYEV, A.V.; MAKAROV, Ye.F.

Measurement of the effective cross section of the reaction $Be^9(n, 2n)Be^8$ for fission neutrons. Atom. energ. 2 no.3:279-281 Mr '57. (Nuclear reactions) (Neutrons) (MLRA 10:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 29379-66

ACC NR: AP6018621

synthetic hydrocarbon oil MAS-35,[11] and polymethylphenylsiloxane liquid FM-1322/300. Specification numbers of the oils are given in the source. The thickener concentration varied from 8 to 14%. The preparative procedure of the greases is described in the source. Study of the properties of the greases showed that: 1) they melt at 200—245C; 2) the thickening capacity of sodium terephthalamate and the colloidal stability of the greases can be further improved by using a sodium terephthalamate-sodium benzoate complex (molar ratio: 1/0.5); 3) the basic physicochemical properties of terephthalamate greases are not substantially impaired by γ-radiation doses of $10^8$ rad. Orig. art. has: 1 figure and 5 tables. [BO]

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 012/ ATD PRESS: 5008

Card 2/2 0C

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 29379-66 EWP(j)/EWT(m)/T GG/RM/DJ

ACC NR: AP6018621 (A) SOURCE CODE: UR/0065/66/000/006/0024/0027

AUTHOR: Makeyeva, Ye. D.; Makhnenko, G. Kh.; Zaslavskiy, Yu. S.

ORG: VNII NP

TITLE: Radiation resistant lubricating greases based on sodium terephthalamate

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1966, 24-27

TOPIC TAGS: lubricant, radiation protection

ABSTRACT: Lubricating greases prepared by the thickening of mineral oils and synthetic liquids with terephthalamates, which are assymetric derivatives of terephthalic acid of the general formula

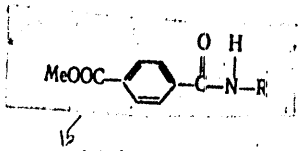


exhibit high radiation resistance, high water repellency, and good structural strength and adhesion to rubbing surfaces at above 200C. Sodium terephthalamate-base lubricating greases were prepared in two steps: 1) synthesis of sodium terephthalamate, and 2) preparation of greases from mineral oils MS-20s and DS-11,

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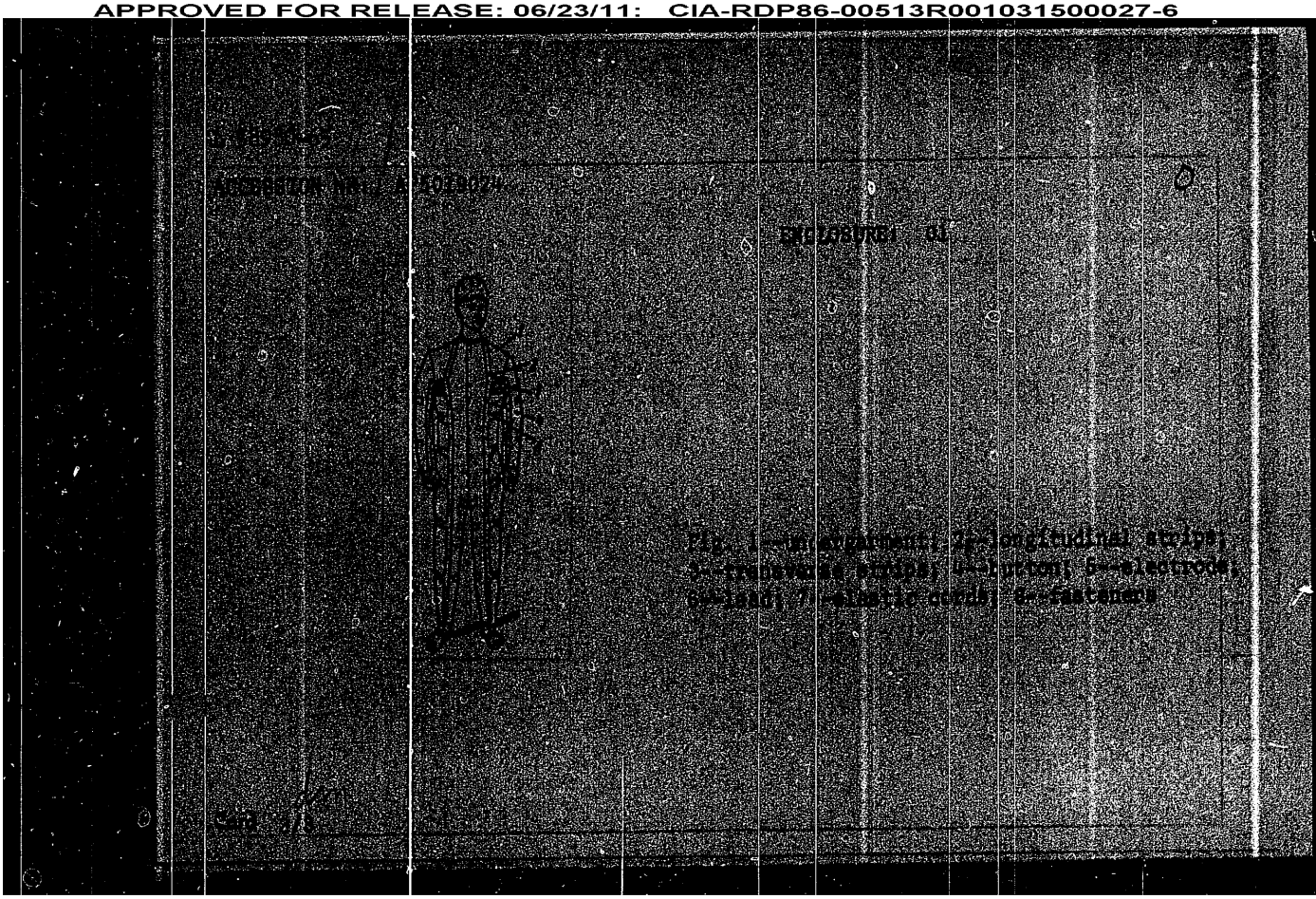


Fig. 1—Compartment; 2—longitudinal strips; 3—transverse strips; 4—button; 5—electrode; 6—band; 7—elastic cords; 8—fastener

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made in the form of a tape with fasteners for regulating its length. These tapes are located in the channels for preventing dislocation of the wires.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezhnodorozhnogo transporta (All-Union Scientific Research Institute of Railway Transportation); Institut obshchey i kommunal'noy gigiyeny im. Sysina AMN SSSR (Institute of Social and Communal Hygiene, AMN SSSR)

SUBMITTED: 14Jan64 ENCL: 01 SUB CODE: LS

NO REF SOV: 000 OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

ABSTRACT: This Author's Certificate introduces: 1. A device for fastening a set of sensing elements to the human skin. The device contains metal fastening clips and hoints. The device is designed so that a person being tested can fasten the necessary number of sensing elements rapidly and tightly to given sections of his own skin during physiological studies. Provision is made also for preventing dislocation of wires or breaking them off and interrupting the electrical contact. The leads for the sensing elements are mounted in non-stretching channels formed by fabric strips sewn onto the undergarment, and the elements themselves are fastened at the ends of the channels. 2. A modification of this device in which the elastic

Card 1/3

L 58980-65

ACCESSION NR: AP5019024

cords for pressing the electrodes against the skin of the person being tested are made in the form of a tape with fasteners for regulating its length. These tapes are located in the channels for preventing dislocation of the wires.

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[illegible]

ACCESSION NR: AP5019024 UR/0286/65/000/012/0050/0050
615.472

12
B

AUTHOR: Raykhman, S. P.; Makarova, Ye. D.; Rapoport, K. A.

TITLE: A device for fastening a set of sensing elements to the human skin. Class 30, No. 171953

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 50

TOPIC TAGS: physiology, physiological testing

ABSTRACT: This Author's Certificate introduces: 1. A device for fastening a set of sensing elements to the human skin. The device contains metal fastening clips

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SOV/137-58-10-21259

Surface Hardening of Gears With Induction (cont.)

36G2S, 35GS, and 50G-grade steel were quenched. G of 36G2S-grade steel showed a high strength in bending tests of the cogs (rupture load of 12.7 - 13.3 ton) and were referred for testing under shop conditions. Later an inductor was developed which permits carrying out the heating with currents of two frequencies simultaneously. Bibliography: 6 references.

1. Gears--Hardening 2. Induction heating--Applications T. F.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

SOV/137-58-10-21259

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 116 (USSR)

AUTHORS: Bogdanov, V. N., Glukhanov, N. P., Makarova, Ye. D.

TITLE. Surface Hardening of Gears With Induction Heating by Currents of Two Frequencies (Poverkhnostnaya zakalka shesteren pri induktsionnom nagreve tokami dvukh chastot)

PERIODICAL: V sb.: Prom. primeneniye tokov vysokoy chastoty. Riga, 1957, pp 7-18

ABSTRACT: A theoretical basis is provided and the technological process and equipment for the two-frequency method of "rim hardening" of gears (G) developed by the Scientific Research Institute are described. G of a 4.25 module were heated in a one-coil annular inductor which was first connected to the source of a low-frequency current (1000 cps) (rotating-type frequency changer of 350 kw) with a mean specific power output of 1.5 - 1.7 kw/cm$^2$, following which the inductor was switched over to the source of a high-frequency current (250 kc) (vacuum-tube oscillator of 400 kw) with a specific output of 1.0 - 1.2 kw/cm$^2$. Low-frequency heating continued for 2.5 - 3 sec, while high-frequency heating lasted for 0.6 - 0.7 sec. Experimental batches of G of 45, 45G2,

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.A.

Results of a study of the continuous solar spectrum in the region of 3100 Å - 6600 Å. Astron. zhur. 42 no.3:681-682 My-Je '65. (MIRA 18:5)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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ACCESSION NR: AP4032722

the presence of a depression in the 4700-4800 A region and an increase of intensity in the 7100-7300 A region (Fig. 1 and 2 of the Enclosure) detected by the author in 1956. Absorption in the solar atmosphere apparently cannot be explained only by H and $H^-$ absorption. Other absorption agents are necessary: probably metals in the visible region of the spectrum and hydrogen quasi-molecules in the ultraviolet. Orig. art. has: 2 formulas and 4 tables.

ASSOCIATION: Gosudarstvenny*y astronomicheskiy institut im. P. K. Shternberga (State Astronomical Institute)

SUBMITTED: 12Mar63 DATE ACQ: 11May64 ENCL: 02

SUB CODE: AS NO REF SOV: 008 OTHER: 023

Card 2/4

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

ACCESSION NR: AP4032722 S/0033/64/041/002/0288/0298

AUTHOR: Makarova, Ye. A.

TITLE: Energy distribution in the continuous solar spectrum

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 2, 1964, 288-298

TOPIC TAGS: sun, solar spectrum, astronomy, solar energy

ABSTRACT: The generally accepted energy distribution in the continuous solar spectrum (3300-6600 A) at the center of the disk is erroneous since it is based on incorrect data. The distribution given by Mulders is out of date since it fails to take into account nine of the most recent investigations and is based essentially only on Abbot's results. The mean weighted energy distribution in the region 3400-8500 A has been obtained using nine series of measurements in absolute units. It differs basically from that generally accepted. The character of the dependence becomes more evident if a detailed distribution is determined using the most reliable measurements obtained with sufficient resolution. The determined distribution is of satisfactory accuracy for $\lambda > 3900$ A. The data are insufficient for shorter wavelengths. The distribution is extended to the infrared region using the relative units devised by Pierce and Peyturaux. These data then have been reduced to absolute units by reference to the detailed distribution. The determined distribution in the photographic spectral region confirms

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

ACCESSION NR: AT4035360

and the aureoles caused by light scattering on water vapor particles are small. The water vapor content in the atmosphere in winter is only one-half or one-third as great as in summer. "In conclusion, the authors wish to thank A. I. Kiryukhina, M. S. Murasheva and R. N. Khmeleva, specialists of the Otdel fiziki Solntsa GAISh (Division of Solar Physics of the State Astronomical Institute), for assistance in making the observations and in processing the data". Orig. art. has: 3 formulas, 11 figures and 5 tables.

ASSOCIATION: Gosudarstvenny*y astronomicheskiy institut Moskovskogo universiteta (State Astronomical Institute, Moscow University)

SUBMITTED: 00 DATE ACQ: 25May64 ENCL: 00

SUB CODE: AA, ES NO REF SOV: 005 OTHER: 005

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

ACCESSION NR: AT4035360

Comparison with approximate calibration in the laboratory reveals a systematic discrepancy, but this only suggests that laboratory experiments must take into account the change in meteorological factors with height in the atmosphere. The water vapor content in the atmosphere is three times less in summer and five times less in winter at the alpine station than over Kuchino (in summer). The water vapor content over the alpine station in summer changes approximately by a factor of two during the day from morning to noon as a result of melting of snow in the nearby mountains. At Kuchino, on a plain, there is no particular change during the day. An increase in the water vapor content toward noon near the alpine station leads to a decrease in the atmospheric transparency coefficient. Since the increase in water vapor content occurs gradually, the Bouguer curve, which is usually used to determine the transparency coefficient, will remain a straight line for the most part but the transparency coefficient computed from this curve will be erroneous. This error increases with a decrease of wavelength and with an increase of the water vapor content of the atmosphere. With an increase of water vapor there is an increase of the solar aureole and an increase of the deformation of images. Similar phenomena caused by the summer melting of snow should be observed at other mountain observatories. In winter, when there is a continuous snow cover, there is no diurnal variation of water vapor content

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

BR

ACCESSION NR: AT4035360 S/2623/63/000/126/0003/0024

AUTHOR: Makarova, Ye. A.; Sitnik, G. F.; Kozhevnikov, N. I.

TITLE: Some of the optical properties of the earth's atmosphere and the water vapor content revealed by observations at Kuchino and during the alpine expedition of the State Astronomical Institute (GAISh)

SOURCE: Moscow. Universitet. Gosudarstvenny*y astronomicheskiy institut. Soobshcheniya, no. 126, 1963, 3-24

TOPIC TAGS: astronomy, astroclimate, atmospheric optics, atmospheric water vapor content, atmospheric transparency, meteorology

ABSTRACT: The spectrophotometric method was used to determine the water vapor content in the earth's atmosphere at different $H_2O$ bands from 0.94 to 1.47 $\mu$ with an accuracy of about 5%. The observations were calibrated against aerological data. The calibration curves constructed on the basis of observations at the alpine station and at the Kuchinskaya astrofizicheskaya laboratoriya GAISh (Kuchino Astrophysical Observatory) provide quite reliable data on the water vapor content in the earth's atmosphere. It is concluded that aerological ascents are suitable for the calibration of spectroscopic observations.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.A.

Energy distribution in the continuous spectrum of the sun. Astron. zhur. 41 no.2:288-298 Mr-Ap '64. (MIRA 17:4)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.A.; SITNIK, G.F.; KOZHEVNIKOV, N.I.

Some optical properties of the earth's atmosphere and its water vapor content according to observations in Kuchino and during GAISH's high-mountain expedition. Soob.GAISH no.126:3-24 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.A.; SITNIK, G.F.; KOZHEVNIKOV, N.I.

Effect of water vapor on the optical properties of the atmosphere. Astron. zhur. 40 no.3:539-543 My-Je '63. (MIRA 16:6)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga.
(Atmosphere—Optical properties)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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and are at different distances from each other. These results show that the absorption coefficient is not constant within the band, so that the amount of absorption measured depends on that section of the band chosen for the investigation. This was confirmed experimentally. A modified formula according to Goody for the residual intensity observed is given by averaging the absorption in the frequency interval of the band considered. The experimental results are discussed on the basis of this formula. They are found to be in satisfactory agreement. There are 5 figures and 2 tables.

ASSOCIATION: Kafedra astrofiziki (Department of Astrophysics)

SUBMITTED: May 11, 1962



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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S/188/63/000/001/009/014
B164/B102

3.5150

AUTHORS: Kozhevnikov, N. I., Makarova, Ye. A., Sitnik, G. F.

TITLE: Model of the water vapor infrared absorption band

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 1, 1963, 54-61

TEXT: Theoretical models of band absorption are discussed in order to interpret the IR absorption in the 1.12 μ band by atmospheric water vapor (GAISh no. 126, 1962; VMF no. 6, 1962). The measurements were made with the ИКС-11 (IKS-11) spectrograph of the Kuchinskaya astrofizicheskaya observatoriya (Kuchino Astrophysical Observatory) and at the Vysokogornaya stantsiya GAISh (High-mountain Station GAISh) near Alma Ata. The experimental relationship between the residual radiation intensity in the 1.12 μ band existing after the absorption and the amount of absorbing water vapor is compared with the theoretical results. The agreement with the model of R. M. Goody (Quart. J. Roy. Meteorol. Soc. 78, 165, 1952) is fairly good. The authors calculate the absorption in water vapor on the assumption that the lines in the absorption band have different intensities

Card 1/2 S/188/62/000/006/014/016

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L 11184-63

ACCESSION NR: AP3001245

Institute)

SUBMITTED: 13Feb62 DATE ACQD: 01Jul63 ENCL: 00

SUB CODE: AI, PH NO REF SOV: 007 OTHER: 003

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Card 3/3

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 11184-63

ACCESSION NR: AP3001245

2

obtained from aerological soundings performed on observation days. The calibration curves are remarkably similar, even though the observations were performed on different instruments and in climatologically and meteorologically widely differing locales. This would appear to justify the conclusion that calibration by means of aerological soundings may be dependably employed for the spectroscopic determination of the water-vapor content of the atmosphere. At the same time, such aerological calibration differs systematically from the laboratory calibration of F.E.Fowle (Astrophys.J., v.35, 1912, 149; v.37, 1913, 359; v.38, 1913, 392; v.42, 1915, 394). Under summer conditions in high mountainous terrain it was noted that the melting of snow frequently produces an increase (typically, a doubling) in the water-vapor content of the atmosphere from the morning hours to noon. This leads to a substantial change in the optical properties of the atmosphere, most noticeable at high noon and, more especially, during the intrusion of warm air masses into the region of the observations. The present investigation of the change in water-vapor content of the atmosphere and its effect on the optical properties of the atmosphere would appear to be of especial significance in the selection of suitable localities for the positioning of large telescopes. There are 3 figures.

ASSOCIATION: Gos. astronomicheskiy in-t imeni P.K.Shternbergx (State Astronomical

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

L 11184-63 EWT(1)/FCC(w)/BDS/ES(v)--AFFTC/APGC/ASD/ESD-3/SSD--Pe-4/Pi-4/Pq-4--
ACCESSION NR: AP4001246 S/0033/63/040/003/0539/0543 RB

AUTHOR: Makarova, Ye.A.; Sitnik, G.F.; Kozhevnikov, N.I. 78 76

TITLE: On the effect of water vapor on the optical properties of the atmosphere

SOURCE: Astronomicheskiy zhurnal, v. 40, no. 3, 1963, 539-543

TOPIC TAGS: water vapor, optical properties of atmosphere, air-mass properties, aerological soundings, snow-melt evaporation, spectroscopic humidity measurement, selection of telescope location

ABSTRACT: The paper discusses certain conclusions derived from spectroscopic measurements of the water-vapor content in the terrestrial atmosphere obtained from the IGY observations of the Solar Department of the State Astronomical Institute imeni P.K.Shternberg (GAISh), also parallel measurements at the Kuchino Astrophysical Observatory near Moscow and the GAISh high-mountain expedition observatory near Alma-Ata (appx. 3,000 m above mgl), using IKS-11 and IKS-6 infrared spectrometers, respectively. The solar spectrum was recorded in the 0.7 to 2.5-micron region, with an instrument resolving power approaching 1.13 micron and with operational values of the width of entrance slit of 0.003 and 0.01 micron for the two instruments, respectively. The calibration curves were

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Absorption of solar ...

S/188/62/000/006/014/016
B125/B104

represents the features of the absorption of radiation by water vapor. Fowle's curve, which was plotted under laboratory conditions at 760 mm Hg, is suitable only for observations at low altitudes (plane) and not for those at altitudes exceeding 2 - 3 km. There are 5 figures.

ASSOCIATION: Kafedra astrofiziki (Department of Astrophysics)

SUBMITTED: April 12, 1962

Card 2/2

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43927

S/188/62/000/006/014/016
B125/B104

3,1800

AUTHORS: Kozhevnikov, N. I., Makarova, Ye. A., Sitnik, G. F.

TITLE: Absorption of solar radiation by water vapor as observed at various altitudes

PERIODICAL: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 6, 1962, 73 - 79

TEXT: It is reported that the calibration curves for the Earth bands of water vapor and oxygen in the solar spectrum differ considerably from the curves of F. E. Fowle (Smithson. Ann., 3, 171, 1913; 3, 182, 1913). These calibration curves were recorded by the authors at the Kuchinskaya astrofizicheskaya observatoriya (Kuchin Astrophysical Observatory) and in the Vysokogornaya stantsiya GAISh (High Mountain Station GAISh) at Alma Ata during the International Geophysical Year. The difference can hardly be due to inaccurate determination of the line in the continuous spectrum. The zero line was found precisely both by Fowle and by the present authors. Also the light scattered in the spectrograph was correctly considered in both cases. In the authors' opinion, their calibration curve correctly

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41290

S/035/62/000/010/046/128
A001/A101

AUTHORS: Makarova, Ye. A., Kozhevnikov, N. I., Porfir'yeva, G. A.

TITLE: Determination of extra-atmospheric values of silicon photo-cell yield. Part II. Observations and results

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 58-59, abstract 10A403 ("Soobshch. Gos. astron. in-ta im. P. K. Shternberga 1961, no. 116, 25 - 45)

TEXT: The method described in Part I of the article of the same title (abstract 10A402) was applied to determination of the absolute spectral sensitivity of a group of photo-cells. Making use of the experimental linear growth of power obtained from the optimum load of a photo-cell (depending on light intensity), the authors calculated extra-atmospheric values of photo-cell yield by extrapolation of observed values. It amounts to 4.5 - 9.7 mw $cm^2$. There are 9 references.

Ye. A.

[Abstracter's note: Complete translation]

Card 1/1

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S/035/62/000/010/045/128
A001/A101

Determination of extra-atmospheric values of...

of reflected light amounted to 3 - 4% of the incident beam. There are 8 references.

Ye. Antropov

[Abstracter's note: Complete translation]

Card 3/3

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6



hence one obtains

$$e_{\lambda_0} = \int_{\lambda_1}^{\lambda_2} W_\lambda \, d\lambda \Big/ \int_{\lambda_1}^{\lambda_2} e_\lambda \cdot E_\lambda \, d\lambda \qquad (2)$$

If one knows $e_{\lambda_0}$, the absolute spectral sensitivity can be determined for any $\lambda$ by Formula (1). To employ Formula (2), one has to know the relative spectral sensitivity. The latter was determined from the known curve of spectral distribution of the source energy. The $e_{\lambda_0}$ magnitude was determined from the Sun. G. F. Sitnik's compensation circuit (RZhAstr, 1957, no 3, 1909) was used in determination of the relative spectral sensitivity. Electrical and optical measurement circuits are described in detail. Comparative studies of time permanence of silicon photo-cell yield have shown that sulfur-silver photocells are somewhat stabler than silicon ones. Directivity diagrams of energy distribution in the light beam reflected from the photo-cell are presented. The full intensity



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41289
S/035/62/000/010/045/128
A001/A101

26.1512

AUTHORS: Kozhevnikov, N. I., Makarova, Ye. A.

TITLE: Determination of extra-atmospheric values of silicon photo-cell yield. Part I. The method of determining absolute sensitivity, investigation of relative spectral sensitivity of photo-cells

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 58, abstract 10A402 ("Soobshch. Gos. astron. in-ta im. P. K. Shternberga", 1961, no. 116, 3 - 24)

TEXT: Efficiency of silicon photo-cells considerably depends on external conditions (temperature, level and spectral range of irradiation) and is also determined by parameters of a circuit connected. The absolute spectral sensitivity is defined as $e_\lambda = W_\lambda / E_\lambda$, where $E_\lambda$ is spectral density of energy incident on the photo-cell, and $W_\lambda$ is energy yield into the photo-cell external circuit. The method of irradiation with the known irradiative capacity (ribbon tube) was employed for determining $E_\lambda$. The relative spectral sensitivity is defined as:

$$\bar{e}_\lambda = e_\lambda / e_{\lambda o}, \quad (1)$$

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MAKAROVA, Ye.A.; KIRYUKHINA, A.I.

A prominence with nonuniform physical properties along the line of sight. Astron.zhur. 38 no.3:543-545 My-Je '61. (MIRA 14:6)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga.
(Sun—Prominences)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

KOZHEVNIKOV, N.I.; MAKAROVA, Ye.A.

Limits of the applicability of Bouguer's method for determining the intensity of light from a celestial source. Astron.zhur. 38 no.3: 536-540 My-Je '61. (MIRA 14:6)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga.
(Stars---Radiation)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.A.

Using the OSK-3 optical bench for certain investigations of the slit of a spectrograph and of objectives. Soob.GAISH no.107:37-47 '60. (MIRA 14:3)

(Spectrograph--Testing)(Lenses--Testing)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

DELONE, A.B.; MAKAROVA, Ye.A.; KURT, V.G.

The GAISh coronagraph for outside-eclipse observation. Astron. tsir. no.203:3-4 Je '59. (MIRA 13:4)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shterberga, Moskva.
(Sun--Corona) (Telescope)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

KARIMOV, M.G.; MAKAROVA, Ye.A.; OBASHEV, S.O.

Observation of the structure of the corona in the 5694 A yellow line outside eclipse. Astron.tsir. no.180:20-22 My '57.
(MIRA 13:4)

1. Astrofizicheskiy institut AN KazSSR i Gosudarstvennyy astronomicheskiy institut im. Shternberga.
(Sun--Corona)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.A.

Investigating quartz graded filters. Astron. tsir. no.176:9-11 Ja '57. (MLRA 10:6)

1. Kuchinskaya astrofizicheskaya observatoriya, Gosudarstvennyy astronomicheskiy institut im. Shternberga, Moskva.
(Spectrograph) (Light filters)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

A Photometric Investigation of Energy Distribution in the Continuous Solar Spectrum in Absolute Units. 33-4-4/19

Photographic results below 3700 Å although not very reliable, do indicate a rapid fall in the intensity of the solar radiation beyond the Balmer series limit. This decrease is much more rapid and deep than has been considered so far. This is in agreement with rocket data (Wilsing et al Ref.31).
There are 8 figures, 3 tables and 31 references, 10 of which are Slavic.

SUBMITTED: November, 1, 1956.

ASSOCIATION: Shternberg State Astronomical Institute, (Gos.Astronomicheskiy In-T im. P. K. Shternberga)

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

33-4-4/19

A Photometric Investigation of Energy Distribution in the Continuous Solar Spectrum in Absolute Units.

terrestrial source used for comparison (particularly in the UV region), and finally (d) to select those parts of the solar spectrum which are not affected by absorption lines.

The comparison of the spectrum of the solar disc with the spectrum of a Phillips lamp was carried out photographically in the solar spectrograph of the Kuchino observatory in the region 3700 - 8000 Å, the solar diameter being 14 cm and the dispersion in the second order spectrum 1.6 Å/mm. The derived distribution shows an anomaly in the region 4400 - 5600 (in agreement with Wilsing Ref.2) and also an increase in the intensity in the region 6800 - 7400 Å. The absolute values of energy in the investigated region lie between those determined by Abbot in 1902 - 1910 and 1920 - 1922, and agreed best with the data of Wilsing. Contemporary data based on the work of Chalonge et al and Kanavadzh in the region 4000 - 6000 Å are definitely low. According to all data, the maximum of the energy distribution in the continuous spectrum of the solar disc lies near 4300 Å.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

33-4-4/19

A Photometric Investigation of Energy Distribution in the Continuous Solar Spectrum in Absolute Units.

Three independent determinations of the distribution of energy in the continuous spectrum of the whole solar disc in absolute units exist: Abbot et al (Ref.1); Wilsing, J. (Ref.2); all other determinations were carried out in relative units and in a relatively narrow spectral region. There are some inconsistencies in these determinations. Therefore, the energy distribution in the continuous spectrum in the centre of the solar disc in absolute units was measured again at the Kutchino Astrophysical Observatory under the direction of G. F. Sitnik. A black body source of the solar spectrograph of the Kutchino Observatory was used for comparison.

In practice, the solar spectrum was compared with the spectrum emitted by a standard lamp, the spectrum of which was in turn compared with the black body emitter. To determine the energy distribution in the continuous spectrum of the centre of the solar disc it is necessary to solve the following problems: (a) losses in the Earth's atmosphere; (b) losses in the optical system; (c) differences in the brightness of the sun and the

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, YE. A.

AUTHOR: Makarova, Ye. A. 33-4-4/19

TITLE: A Photometric Investigation of Energy Distribution in the Continuous Solar Spectrum in Absolute Units. (Issledovaniye raspredeleniya energii v nepreryvnom spektre solntsa v absolyutnykh yedinitsakh fotograficheskim putem).

PERIODICAL: Astronomicheskiy Zhurnal, 1957, Vol.34, No.4 ,pp.539-556 (USSR).

ABSTRACT: Data on the distribution of energy in the continuous solar spectrum of the solar disc in absolute units, and the results of observations of the darkening of the solar disc towards its limb can be used to solve one of the main problems of astrophysics, namely, the laws governing changes in the temperature, pressure, density, and other physical characteristics with depth in the solar photosphere. This, of course, is equivalent to a construction of a model of the solar atmosphere. Such a model plays an important part in the interpretation of absorption lines in the solar spectrum. Finally, a knowledge of the distribution of energy in the solar spectrum also has a purely practical value for example, in actinometry.

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MAKAROVA, YE. A. Doc Cand Phys-Math Sci -- (diss) "Study of the distribution of energy in the center of the sun's disk in ~~the~~ absolute units by ~~the use~~ means of the photographic method." Mos, 1957, 9 pp 22 cm (Moscow State Univ im M.V. Lomonosov. State Astronomical Inst ~~of Astronomy~~ im P.K. Shternberg), 100 copies (KL, 21-57, 98)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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MAKAROVA, Ye.A.

One error in D. Chalonge and R. Canavaggia's work "Studying the continuous solar spectrum". Astron. tsirk. no.175:10-12 D '56. (MLRA 10:5)

1. Kuchinskaya Astrofizicheskaya observatoriya, Moskva.
(Spectrum, Solar)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

Periodical : Dok. AN SSSR, 1067-1068, Feb 21, 1955

Card 2/2 Pub. 22 - 9/47

Abstract : Tests showed that this filter can also be effectively applied for the study of the chromosphere and prominences. The semi-width of the filter band pass is 0.9 Å. Prominence photos obtained by means of the IPSR-3934 filter are included. Four references: 3 USSR and 1 USA (1949-1953). Graphs; illustrations.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, YE. A.

USSR/Physics - Interference-polarization light filteration

Card 1/2 Pub. 22 - 9/47

Authors : Gil'barg, A. B.; Distler, G. I.; and Makarova, E. A.

Title : Interference-polarization light filter for K-lines of ionized calcium

Periodical : Dok. AN SSSR, 100/6, 1067-1068, Feb 21, 1955

Abstract : Announcement is made about the design and construction of the IPSF-3934 interference-polarization light filter for astrophysic investigations of solar spectra. The filter consists of 9 quartz elements and 10 polarizers with a thickness of the last quartz plate of 52.6mm.

Institution : Academy of Sciences USSR, Institute of Crystallography

Presented by : Academician A. V. Shubnikov, November 11, 1954

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye. A.

MITRA, S.K.; ROSENBERG, G.V.,[translator]; MAKAROVA, Ye.A.,[translator]
KRAKOVSKIY, V.I., redaktor; AL'PERT, Ya.L., redaktor; YEGOROVA,
N.E., redaktor; SHAPOVALOV, V.I., tekhnicheskiy redaktor.

[The upper atmosphere. Translated from the English] Verkhniaia atmosfera. Perevod s angliiskogo G.V.Rozenberga i E.A.Makarovoi. Pod. red. V.I.Krasovskogo i Ia L.Al'perta. Moskva, Izd-vo Inostrannoi lit-ry, 1955. 639 p. [Microfilm] (MLRA 9:1)
(Atmosphere, Upper)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, E.A.

USSR/ Astronomy - Temperature measurements

Card 1/1 Pub. 86 - 11/36

Authors : Makarova, E. A.

Title : The sun as a standard for measuring the temperature of a terrestrial source

Periodical : Pr. rode 2, 81/82, Feb 1954

Abstract : Various ways of utilizing the sun for measuring the temperature of flames of terrestrial sources are discussed. It was proven by actual experiments that the sun with its surface temperature of up to 6000° can be used as an accurate standard for measuring flame temperatures of up to 5500°. The method of applying the sun to such high-temperature measurements is described. One USA reference (1952).

Institution : The M. V. Lomonosov State University, The P. K. Shternberg Astronomical

Submitted : .....

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MAKAROVA, Ye.

New elements for planet 941 Murray. Astron.tsir. no.144:8-9 D '53. (MLRA 7:6)

(Planets, Minor--941)

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MAKAROVA, Ye.A.

Fall of meteorites on the moon. Priroda 42 no.9:127-128 S '53. (MLRA 6:8)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shternberga pri Moskovskom gosudarstvennom universitete. (Meteorites)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, Ye.A.

Effect of photographic fog on the measurement of relative intensities. Trudy GAISH 22:133-138 '53. (MLRA 7:5)

(Photometry, Astronomical)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, YE. A.

Determination of residual nitrogen in blood. E. A. Makarova. *Vrachebnoe Delo* 1953, No. 8, 471-2; *Referat. Zhur., Khim.* 1954, No. 41314. E. Wierbicki

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MAKAROVA, YE. A.

Makarova, Ye. A.

"On the Calculation of the Cruciform Winding of High-Speed Belt Machines for Wool Fiber." Min Higher Education USSR, Moscow Textile Inst. Moscow, 1955 (Dissertation for the degree of Candidate in Technical Science)

SO: Knizhnaya letopis' No. 27, 2 July 1955

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

LIZORKIN, V.; MAKAROVA, Ye.; KHROMCHENKO, L.; SINTSOVA, A.; VINOKUROVA, V.

Rapid method for curing meat for sausage manufacture. Mias. ind.SSSR 30 no.1:13 '59. (MIRA 12:4)

1. Nauchno-issledovatel'skoye byuro Stalingradskogo myasotresta.
(Sausages)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

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USSR / Soil Science. Physical and Chemical Properties of Soil. J

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48618

mainly produced through the content of free and movable sesquioxides of humic acids. -- S. K. Nikitin

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

USSR / Soil Science. Physical and Chemical Properties of Soil. J

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48618

Author : Plotnikov, A. A.; Makarova, V. V.
Inst : Ivanovo Agricultural Institute
Title : Dynamics of Soil Structure and Humus in Grass Crop Rotation Using a Layer Under Spring Wheat, Winter Rye, and Potatoes

Orig Pub : Sb. nauchn. tr. Ivanovsk. s.-kh. in-ta, 1956, vyp 14, 16-21

Abstract : In experiments on turf-podzolic soils in Ivanovskaya Oblast' towards the end of crop rotation, an increase of 0.24% in humus content, and an increase of from 13 to 30% in water-stable aggregates was observed in the soils. The structural composition of the soil was

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PLOTNIKOV, A.A.; MAKAROVA, V.V.

Efficient utilization of sod in grassland crop rotations on turf-Podzolic soils[with German summary in insert]. Pochvovedenie no.4:80-86 Ap '56. (MLRA 9:9)

1.Ivanovskiy sel'skokhozyaystvennyy institut.
(Podzol) (Rotation of crops)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, V.V.

MASLOV, M.S., professor, zasluzhenyy deyatel' nauki, deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR; ZAYTSEVA, G.I., kandidat meditsinskikh nauk, sekretar'; KURYLEVA, O.M.; BRONSHTEIN, A.I.; PETROVA, Ye.P.; MALAKHOVSKAYA, D.B.; ITINA, N.A.; MAKAROVA, V.V.; RYBAKOVA, T.N.; ORBELI, L.A., akademik; VOLOVIK, A.B., professor; TUR, A.F., professor; BYSTROLETOVA, G.I.; DANILEVICH, M.G., professor; KUZMICHEVA, A.G., dotsent; BEKHTEREVA, M.I.; ALEKSANDROVA, V.R.

Minutes of the meetings of the Leningrad Society of Pediatricians. Vop. pediat. 21 no.2:60-62 Mr-Ap '53. (MLRA 6:6)

1. Leningradskoe obshchestvo detskikh vrachei. 2. Akademiya meditsinskikh nauk SSSR (for Maslov). (Reflexes) (Scarlet fever)

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1. MAKAROVA, V. T. Prof.

2. USSR (600)

4. Public Works

7. Introductory speech by Prof. V. T. Makarova, Rector of Tomsk University. Trudy. Tomsk. un. 114, 1951.

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

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PETROV, Ye.G., kand. sel'skokhoz. nauk; BOBCHENKO, V.I., kand. sel'skokhoz. nauk; SID'KO, A.A., kand. sel'skokhoz. nauk; MAKAROVA, V.S., kand. sel'skokhoz. nauk; MYASISHCHEV, S.I., inzh.

Leaching salinized soils in rice growing. Gidr. i mel. 17 no.10:1-14 O '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031500027-6

MAKAROVA, V.S., kand.tekhn.nauk

Reservoir in a coat. Izobr.i rats. no.5 (201):4-6 '63. (MIRA 16:7)

1. Laboratoriya protivofil'tratsionnykh meropriyatiy Vsesoyuznogo nauchno-issledovatel'skogo instituta gidrotekhniki i melioratsii im. Kostyakova.

(Irrigation research)

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MAKAROVA, V.S.; KUZNETSOV, V.I.

Effect of monomolecular films on evaporation from the surface of water. Trudy GGI no.91:5-13 '61. (MIRA 14:8)
(Evaporation)
(Films(Chemistry))
(Alcohols)

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MAKAROVA, V.S.; MKHITARYAN, A.M.

Experiments with monomolecular films in the reduction of evaporation carried out on the shore of Lake Sevan. Izv. AN Arm. SSR. Ser. tekh. nauk 14 no.3:43-57 '61. (MIRA 14:8)
(Sevan Lake region--Evaporation) (Films (Chemistry))

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Use of monomolecular films to reduce evaporation losses from water surfaces. Gidr. i mel. 12 no.11:61-64 N '60. (MIRA 14:1)

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(Evaporation) (Films (Chemistry))

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