CHISTYAKOV, V.M.; SHAPUROVA, V.V.

Corrosion of steel in chloroform and dichloroethane. Izv.vys.ucheb. zav.; khim. i khim.tekh. 7 no.2:349-350 '64. (MIRA 18:4)

1. Kuybyshevskiy gosudarstvennyy pedagogicheskiy institut im. V.V. Kuybysheva, kafedra khimii.

CHISTYAKOV, Vladimir Mikhaylovich; NOVIKOVA, Ye.N., kand. khim. nauk, dots., nauchn. red.; NIKITINA, M., red.

[Inhibitors of metal corrosion] Zamedliteli korrozii metallov; ingibitory. Minsk, Nauka i tekhnika, 1965. 60 p.
(MIRA 19:1)

FEL'DMAN, Aleksandr Grigor'yevich; CHISTYAKOV, V.O., red.

[Radon waters of Belaya TSerkov'] Bilotserkivs'ki radonovi vody. Kyiv, Zdorov'ia, 1965. 42 p.
(MIRA 19:1)

SEVAST'YANOV, B.A.; CHISTYAKOV, V.P.

Letter to the editor. Teor. veroiat. i ee prim. 9 no.3.568 '64.
(MIRA 17:10)

CHISTYAKOV, V.P. (Moscow)

Theorem on sums of independent positive random variables and its applications to random branching processes. Teor. veroiat. i ee prim. 9 no.4:710-718 '64.

Basis for calculating the scope of the empty box test. Ibid.:718-724 (MIRA 17:12)

[redacted], I.I.; CHISTYAKOV, V.P. (Moscow)

Asymptotic normality in the problem of balls with arbitrary probabilities of their falling into the boxes. Teor. veroiat. i ee prim. 10 no.1:163-167 '65. (MIRA 18:3)

L 4478-66 EWT(l)/EWT(m)/FCC/T/EWA(h) IJP(c) GM

ACC NR: AP5024638 SOURCE CODE: UR/0048/65/029/009/1702/1705

AUTHOR: Kalmykov, N.N.; Chistyakov, V.P.

ORG: none

TITLE: Calculation of the fluctuations in the development of cascade showers by a method of Kolmogorov /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1702-1705

TOPIC TAGS: primary cosmic ray, secondary cosmic ray, extensive air shower, nucleon interaction, inelastic interaction, pion

ABSTRACT: The authors have employed the method of branching stochastic processes (A.N.Kolmogorov and N.A.Dmitriyev, Dokl. AN SSSR, 56, 7, 1948) to calculate the average value and dispersion at different depths in an extensive air shower initiated by a 10^{15} eV primary proton of the fluxes of electrons, nuclear-active particles, and energy in the nuclear-active component. The basic equations of the method are presented but the techniques for solving them are not discussed in detail. Calculations were performed for several different models of the initiating elementary interaction event. It was assumed throughout that pion production proceeds according to Landau's theory and that the interaction mean free path of both nucleons and pions is 80 g/cm^2. The

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ACC NR: AP5024638

several interaction models differ with respect to the number and nature of the very high energy secondaries. It was found that the particle number fluctuations, even at maximum shower development, considerably exceed the Poisson fluctuations and that they are due mainly to the behavior of the initiating nucleon, the behavior of the secondaries contributing only a few percent to the fluctuations. The fluctuation at sea level of the number of high energy muons was also calculated. The fluctuation of the number of muons was much less than that of either the electron or the nuclear-active component, but it still exceeded the Poisson fluctuation. Orig. art has: 12 formulas and 2 tables.

SUB CODE: NP/ SUBM DATE: 00/ ORIG REF: 007/ OTH REF: 000

Card 2/2

ACC NR: AP6001912 SOURCE CODE: UR/0294/65/003/006/0895/0900

AUTHOR: Chistyakov, V. S.

ORG: Moscow Power Engineering Institute, Moscow (Moskovskiy energeticheskiy institut)

TITLE: Method of measuring rapidly changing temperatures of gas streams

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 6, 1965, 895-900

TOPIC TAGS: heat conduction, heat transfer coefficient, Fourier series

ABSTRACT: A method based on the use of thermocouples or resistance thermometers proposed for measuring rapidly changing temperatures of gas streams. The theory underlying this method is based on the following equation for correlating the true temperature of the gas stream t_g with the temperature of the sensing element t_s:

$$T \frac{dt_s}{d\tau} + t_s = t_g, \qquad (1)$$

where T is the time constant of the sensor and τ is the time $T = \frac{\tau}{2\,BiFo}$, Bi is the Biot number, and Fo is the Fourier number. When Bi $\to 0$,

equation (1) can be used instead of the non-steady state equation for heat conduction

$$\frac{\partial t_g(r,\tau)}{\partial \tau} = a\left[\frac{\partial^2 t_g(r,\tau)}{\partial r^2} + \frac{1}{r}\frac{\partial t_g(r,\tau)}{\partial r}\right], \qquad (2)$$

with the exact solution: $$\Phi = \frac{t_g - t_g}{t_0 - t_g} = \sum_{n=1}^{\infty} \frac{4Bi^2}{\varepsilon_n^2(\varepsilon_n^2 + Bi^2)} e^{-\varepsilon_n^2 Fo}, \qquad (3)$$

where t_0 is the initial temperature of the sensor. It was calculated that the maximum error introduced by using equation (1) instead of (2) may amount to 0.22% provided that $Bi \leq 0.01$ and $Fo \geq 1$. These conditions are fulfilled for most practical cases. The method for calculating the true gas temperature at a constant heat transfer coefficient from the measured data is based on the following steps: dependence of the sensor temperature on time is developed into a Fourier series:

$$t^T(\tau) = c_0^T + c_1^T \sin(\omega\tau + \varphi_1^T) + \ldots + c_n^T \sin(\omega_n\tau + \varphi_n^T), \quad (4)$$

where t^T is the temperature of the sensor. The amplitudes and the phase angles of the gas stream fluctuations can be determined from the frequency characteristics of the sensor from the following formulas:

$$c_n^c = c_n^T \sqrt{(T\omega_n)^2 + 1}, \quad (5)$$
$$\varphi_n^c = \varphi_n^T + \operatorname{arc\,tg}(T\omega_n),$$

where ω_n is the frequency of one of the components of the temperature fluctuation and c_n^c, φ_n^c, c_n^T, φ_n^T are the amplitude and the initial phase angles of the temperature fluctuations of the gas and the sensor, respectively.

The heat transfer coefficient required for evaluating the time constant T is calculated from the experimental relationship:

ACC NR: AV6001912

$$Nu = c\,Re_c^n\,Pr_c^{0.36}\left(\frac{Pr_c}{Pr_r}\right)^{0.25}. \quad (6)$$

The values of T are then inserted into (5), which in turn is used in the Fourier series (4) to obtain a series for the true temperature fluctuations of the gas stream.

When the temperature fluctuations are accompanied by a change in the heat transfer coefficient, the method using two wires (sensors) with different diameters is applicable. This method is based on the assumption that the temperatures of the gas stream and the sensor are uniform at the instant of measurement.

The two-wire method can also be used to determine the instantaneous heat transfer coefficient by use of the formula:

$$a = \frac{d\lambda}{4aT} = \frac{d\lambda t'}{4a(t_c - t)},$$

where d, λ, and a are the diameter, thermal conductivity, and thermal diffusivity of the sensor at temperature t. The instantaneous gas velocity may be also determined by this method. [FSB: v. 2, no. 2]

Card 4/4 SUB CODE: 20 / SUBM DATE: 19Feb65 / ORIG REF: 006 / OTH REF: 002

CHISTYAKOV, Ye.G. [illegible]spirant; PESHKOVSKAYA, M.M., kand. ekonomicheskikh nauk, dotsent

[illegible]aluating the economic efficiency of specialization. Izv. vys. ucheb. zav.; mashinostr. no.2:181-188 '65. (MIRA 18:5)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

ACC NR: AT7002124 (A) SOURCE CODE: UR/0000/66/000/000/0462/0466

AUTHORS: Rivkin, I. D.; Chistyakov, Ye. P.

ORG: none

TITLE: The effect of some mining-geological factors on the stress state in rocks about the margins of mine workings

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsionno-opticheskomu metodu issledovaniya napryazheniy. 5th, Leningrad, 1964. Polyarizatsionno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 462-466

TOPIC TAGS: stress analysis, mining geology, underground facility

ABSTRACT: It has been noted that the stability of mine workings in the coal mines of the Krivoy Rog basin declines appreciably at deeper levels (700-800 m). Destruction has been especially severe in tunnels cut along the strike of thin-bedded rocks, where the intensity and manifestation of rock pressure differ approciably from the effects in massive rocks. When the concentration of bedding fractures is 10 or more per meter, beginning at depths of 500--600 m, breakdown of tunnels begins as soon as the tunnels are cut. The authors conducted two series of experiments to study the stress state about mine workings and to investigate the mechanism of rock pressure in bedded rocks. The experiments were made on two-dimen-

Card 1/2

KOPYLOV, V.Ye.; CHISTYAKOV, Yu.A.

Damping the longitudinal vibrations of a drilling string. Izv. vys. ucheb. zav.: neft' i gaz 8 no.1:29-34 '65. (MIRA 18:2)

1. Tyumenskiy industrial'nyy institut i Sverdlovskiy gornyy institut.

BELYAYEV, A.F.; GRIGORYAN, Yu.P.

Training of engineers, metallurgists, and chemists in the German Democratic Republic. Izv. vys. ucheb. zav.; tsvet. met. 7 no.6:144-145 '64. (MIRA 18:3)

ACC NR: AT7002124 (A) SOURCE CODE: UR/0000/66/000/000/0462/0466

AUTHORS: Rivkin, I. D.; Chistyakov, Ye. P.

ORG: none

TITLE: The effect of some mining-geological factors on the stress state in rocks about the margins of mine workings

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsionno-opticheskomu metodu issledovaniya napryazheniy. 5th, Leningrad, 1964. Polyarizatsionno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 462-466

TOPIC TAGS: stress analysis, mining geology, underground facility

ABSTRACT: It has been noted that the stability of mine workings in the coal mines of the Krivoy Rog basin declines appreciably at deeper levels (700-800 m). Destruction has been especially severe in tunnels cut along the strike of thin-bedded rocks, where the intensity and manifestation of rock pressure differ appreciably from the effects in massive rocks. When the concentration of bedding fractures is 10 or more per meter, beginning at depths of 500--600 m, breakdown of tunnels begins as soon as the tunnels are cut. The authors conducted two series of experiments to study the stress state about mine workings and to investigate the mechanism of rock pressure in bedded rocks. The experiments were made on two-dimen-

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ACC NR: AT7002124

sional models using "epoxymal" and "igdantin." The stress state around the mine workings of various shapes was studied in relation to dependence on lateral thrust. The stress distribution was observed in the models by observations of the isochromatic curves in the optically active material. When stratified models were used, most experiments showed that the maximum concentration of stresses appeared at the abutment of the arch in the hanging wall and in the opposite corner of the foot wall. Unloading was observed in the material around the rest of the opening. Orig. art. has: 2 figures. (W/A. 101)

SUB CODE: 08, 20/ SUBM DATE: 14Jun66

Card 2/2

SOV/86-58-10-22/40

AUTHOR: Lapochkin, O.P., Lt Col, Bocharov, N.V., Lt Col of Tech Service, and Chistyakov, V.A., Maj

TITLE: Studying Target Features With the Aid of Radar Photos (Izucheniye kharaktera tseli po radiolokatsionnym snimkam)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 10, pp 44-48 (USSR)

ABSTRACT: The author states that the target image as it appears on the radar screen should be studied carefully prior to a bombing mission under adverse weather conditions. For that purpose the image of the target on the radar screen should be photographed at various altitudes and on two or three approach directions to the target during the reconnaissance. The author then describes how such data are obtained and studied. Two photos, 1 diagram.

Card 1/1

ARDENTOV, I.N.; BELORUSSOV, L.M.; IVANOVA, V.N.; CHISTYKOV, V.A.; BELOV, M., red.; SKVORTSOVA, L., tekhn. red.

[Soligalich] Soligalich. By I.N.Ardentov i dr. Kostroma, Kostromskoe knizhnoe izd-vo, 1960. 146 p. (MIRA 14:7)
(Soligalich)

DONCHENKO, Ivan Fedorovich, kand. med. nauk; CHISTYAKOV, V.A., red.; CHUCHUPAK, V.D., tekhn. red.

[Kislovodsk health resort and its therapeutic features] Kurort Kislovodsk i ego lechebnye faktory. Kiev, Gos. med. izd-vo USSR, 1961. 63 p. (MIRA 15:3)
(KISLOVODSK--HEALTH RESORTS, WATERING PLACES, ETC.)

KARAYEV, Roman Grigor'yevich; LARICHEV, Leonid Semenovich; CHISTYAKOV, V.A., red.

[Health resorts of the Ukraine; manual for medical selection of sanatorium and health resort treatment] Kurorty Ukrainy; posobie po meditsinskomu otboru na sanatorno-kurortnoe lechenie. Kiev, Zdorov'e, 1964. 224 p. (MIRA 17:8)

MALINOVSKIY, G.N.; SERGEYEV, P.V.; GUSEV, A.I.; GUBAREV, Ye.A.; CHISTYAKOV, V.A.

Mechanism of some complications in the use of contrast methods in X-ray examinations. Vest. rent. i rad. 39 no.6:31-36 N-D '64. (MIRA 18:6)

1. Gospital'naya khirurgicheskaya klinika (zav. - deystvitel'nyy chlen AMN SSSR prof. B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova, kafedra farmakologii (zav. - prof. V.V.Vasil'yeva) i radiobiologicheskaya laboratoriya (zav. - prof. M.F.Merkulov) II Moskovskogo meditsinskogo instituta imeni Pirogova.

DONCHENKO, Ivan Fedorovich, kand. med. nauk; ; CHISTYAKOV, V.A., red.

[Treatment of patients with rheumatic heart defects at the Kislovodsk Health Resort] Lechenie bol'nykh s revmaticheskimi porokami serdtsa na Kislovodskom kurorte. Kiev, Zdorov'ia, 1965. 74 p. (MIRA 18:9)

CHISTYAKOV, V.A.

Distribution of bilignost-I^{131} in the body of white rats. Farm. i toks. 28 no.1:102-104 Ja-F '65. (MIRA 18:12)

1. Radiobiologicheskaya laboratoriya (zav. - prof. M.F.Merkulov) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova. Submitted July 16, 1964.

SOV-27-58-8-5/27

AUTHORS: Ryabenkiy, R., Director of Technical School, Chistyakov, V., Senior Foreman

TITLE: Complex Production in the Schools (Slozhnaya produktsiya uchilishcha)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1958, Nr 8, pp 10-13 (USSR)

ABSTRACT: The article deals with the training of industrial workers, giving detailed descriptions of the training courses and practical work done by the students. Time requirements for the training of turners, milling machine operators and fitters, broken up for the different work processes, are given in 2 tables.
There are 2 photos and 2 tables.

ASSOCIATION: Tekhnicheskoye uchilishche No. 3 (Leningrad) [Technical school No. 3 (Leningrad)]

1. Industrial production--USSR 2. Personnel--Training

Card 1/1

BARABANOV, A., brigadir; AREF'YEV, B.; MOSHKIN, G.; CHISTYAKOV, V.; PETRUSHIN, V.; VLADIMIROV, L.; BYKOV, A.; PETROV, M.; OGANESYAN, S.

The party's program is a banner for a nation-wide effort in building communism. Rech. transp. 20 no.8:3-4 Ag '61. (MIRA 14:10)

1. Brigada kommunisticheskogo truda Moskovskogo sudostroitel'nogo i sudoremonstnogo zavoda (for Barabanov). 2. Rektor Leningradskogo instituta vodnogo transporta (for Aref'yev). 3. Kapitan volzhskogo teplokhoda "Tallin" (for Moshkin). 4. Master stanochnogo uchastka derevoobdelochnogo tsekha Moskovskogo sudostroitel'nogo i sudoremontnogo zavoda (for Chistyakov). 5. Master mekhanicheskikh masterskikh moskovskogo Zapadnogo porta (for Petrushin). 6. Vedushchiy konstruktor TSentral'nogo proyektno-konstruktorskogo byuro Ministerstva rechnogo flota (for Vladimirov). 7. Nachal'nik Stalingradskogo porta (for Bykov). 8. Nachal'nik tekhnicheskogo otdela moskovskogo Yuzhnogo porta (for Petrov). 9. Kapitan teplokhoda "Zaraysk" Moskovskogo rechnogo parokhodstva (for Oganesyan).
(Communism) (Inland water transportation)

CHISTYAKOV, V.D. (Vitebsk).

Elements of practical application during lessons of mathematics. Mat.v shkole no.6:44-46 N-D '53. (MLRA 6:11)
(Mathematics--Study and teaching)

CHISTYAKOV, V.D. (Vitebsk).

Activities of the school mathematical circle at the Vitebsk Pedagogical Institute. Mat.v shkole no.2:85 Mr-Ap '54.
(MLRA 7:3)
(Vitebsk--Mathematics--Study and teaching) (Study and teaching--Mathematics--Vitebsk)

CHISTYAKOV, V.D. (Vitebsk)

Conducting mathematical evening for the 9th and 10th classes.
Mat. v shkole no.4 Jl-Ag '54. (MLRA 7:7)
(Mathematics--Study and teaching)

CHISTYAKOV, V.D. (Vitebsk)

"Pedagogical lectures" for 1954 in the Vitebsk Province. Mat. v shkole no.5:83-84 S-O '54. (MLRA 7:11)
(Vitebsk Province--Mathematics) (Mathematics--Vitebsk Province)

CHISTYAKOV, V.D. (Vitebsk)

Seminar for teachers. Mat.v shkole no.3:87 My-Je '55. (MIRA 8:7)
(Mathematics--Study and teaching)

CHISTYAKOV, V. D.

CHISTYAKOV,V.D. (Vitebsk)

Experience in teaching geometrical concepts. Mat. v shkole no.5: 58-59 S-O '55. (MLRA 8:11)
(Geometry--Foundations)

CHISTYAKOV, Vasiliy Dmitriyevich; OSTIANU, N.M., redaktor; KOZLOVSKAYA, M.D., tekhnicheskiy redaktor

[Mathematics evenings in secondary schools; a teacher's manual] Matematicheskie vechera v srednei shkole; posobie dlia uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 87 p. (MLRA 9:12)
(Mathematics--Study and teaching)

CHISTYAKOV, V.D. (Vitebsk)

Meetings of mathematics clubs devoted to the history of Chinese mathematics. Mat. v shkole no.1:75-81 Ja-F '56. (Mathematics--Study and teaching) (MLRA 9:4)

CHISTYAKOV, V.D. (Vitebsk)

Matematics club meeting devotei to teh history of mathematics in India. Mat. v shkole no.2:48-56 Mr-Ap '56. (MLRA 9:6)
(India--Mathematics--History)

CHISTYAKOV, V.D. (Vitebsk)

Activity of school mathematics clubs. Mat.v shkole no.3:42-46 My-Je '56. (MLRA 9:8)

(Mathematics--Study and teaching)

CHISTYAKOV, V.D. (Vitebsk)

Awarding of the first scientific prizes in the Chinese People's Republic. Mat. v shkole no. 4:76 Jl-Ag '58. (MIRA 11:7)
(China--Rewards(Prizes, etc.)

CHISTYAKOV, V.D. (Vitebsk)

Methodology in Vitebsk and Vitebsk Province. Mat. v shkole no.4: 88-90 Jl-Ag '56. (MLRA 9:9)
(Vitebsk--Mathematics--Study and teaching)

CHISTYAKOV, V.D.

Penetration of Lobachevskii's ideas into secondary schools.
Ist.-mat.issl.no.9:247-270 '56. (MLRA 9:9)
(Geometry, Non-Euclidean)

CHISTYAKOV, V.D.

Mathematical olympiads in Vitebsk. Usp.mat.nauk 11 no.1:261-264 Ja-F '56. (Vitebsk--Mathematics) (MLRA 9:6)

CHISTYAKOV, V.D. (Vitebsk)

Lenin prizes in mathematics during 1957. Mat. v shkole no.3:1-3 My-Je '58. (MIRA 11:5)

(Mathematics) (Lenin prizes)

CHISTYAKOV, Vasiliy Dmitriyevich

[Materials on the history of mathematics in China and India; a manual for extracurricular work] Materialy po istorii matematiki v Kitae i Indii; posobie dlia vneklassnoi raboty. Moskva, Gos.uchebno-pedagog.izd-vo, 1960. 165 p. (MIRA 14:7)

(Mathematics, Chinese)
(Mathematics, Hindu)

CHISTYAKOV, Vasiliy Dmitriyevich

[Foundations of geometry; aid for teachers] Osnovaniia geometrii; posobie dlia uchitelei. Minsk, Gos.uchebno-pedagog. izd-vo M-va prosv. BSSR, 1961. 185 p.
(MIRA 17:4)

CHISTYAKOV, Vasiliy Dmotriyevich; SHALKOVSKAYA, A., red.; MORGUNOVA,G., tekhn. red.

[Collection of ancient problems in elementary mathematics with historical excursions and detailed solutions]Sbornik starinnykh zadach po elementarnoi matematike s istoricheskimi ekskursami i podrobnymi resheniiami. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1962. 198 p. (MIRA 16:4)
(Mathematics--Problems, exercises, etc.)

CHISTYAKOV, V.D. (Vitebsk)

First All-Union Conference on Geometry. Mat.v shkole no.5:83 S-O '62. (MIRA 15:12)
(Geometry—Congresses)

CHISTYAKOV, Vasiliy Dmitriyevich; SHALKOVSKAYA, A., red.; MORGUNOVA,G., tekhn. red.

[Stories about mathematicians] Rasskazy o matematikakh. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'-nogo obrazovaniia BSSR, 1963. 343 p. (MIRA 17:2)

CHISTYAKOV, V. D.

The replacement of non-ferrous metals and high-grade steel during the repair of tractors. Moskva, "Sel'khozgiz," 1944. 338 p. (48-32884)

TL233.C44

CHISTYAKOV, V. (D.)

"Repair of Cylinder Head of KD-35 Tractor Engine with Worn Out Valve Seats," MTS, 11, No.12, 1952

CHISTYAKOV, V. D.

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Remont traktorov (Tractor repair, by) I. P. Pogorelyy, V. D. Chistyakov (i) M. A. Lukanov (new ed.) Moskva, Sel'khozgiz, 1954.

398 p. illus., diagrs., tables.

"Literatura": p. (395)

CHISTYAKOV V.D.

ARTEM'YEV, Yu.N., kandidat tekhnicheskikh nauk; ALEKSEYEV, I.A., inzhener; ASTVATSATUROV, G.G., inzhener; BISNOVATYY, S.I., inzhener; BONDARENKO, A.F., inzhener; GURAL'NIK, Ye.L., inzhener; GORBUNOV, M.F., inzhener; ZLATKOVSKIY, A.P., kandidat tekhnicheskikh nauk; KATTS, N.V., inzhener, KITAYEV, A.S., inzhener; KOZLOV, A.M., inzhener; LEONOV, P.T., inzhener; LIVSHITS, L.G., kandidat tekhnicheskikh nauk; LIBERMAN, A.R., inzhener; LINNIK, Ye.M., inzhener; LUKANOV, M.A., inzhener; MOROZOV, S.A., inzhener; POGORELYY, I.P., kandidat tekhnicheskikh nauk; PETROV, S.A., kandidat tekhnicheskikh nauk; PYATETSKIY, B.G., inzhener; RABOCHIY, L.G., kandidat tekhnicheskikh nauk; SELIVANOV, A.I., kandidat tekhnicheskikh nauk; FERBERG, B.S., kandidat tekhnicheskikh nauk; CHISTYAKOV, V.D., inzhener; CHUNIKHIN, V.M., inzhener; SHIRYAYEV, A.I., inzhener; SHCHUPAK, A.D., inzhener; KUCHUMOV, P.S., inzhener, redaktor; PETROV, S.A.; PESTRYAKOV, A.I., redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Handbook of equipment for repairing tractors and agricultural machinery] Spravochnik po oborudovaniiu dlia remonta traktorov i sel'skokhoziaistvennykh mashin. Moskva, Gos. izd-vo selkhoz. lit-ry, 1954. 646 p. (MLRA 7:11)

(Tractors--Repairing) (Agricultural machinery--Maintenance and repair)

Chistyakov, V.D.

DOMBRACHEVA, Ye.F.; KOZLOV, A.M.; KRICHEVSKIY, M.Ye.; LAPITSKIY, M.A.; LISTOVSKIY, N.D.; LUKANOV, M.A.; MANUKOV, N.P.; MICHURINA, V.V.; POLYACHENKO, A.V.; TIMOFEYEV, N.A.; TSVETKOV, V.S.; CHISTYAKOV, V.D.; KOPEYKIN, P.A., inzh., red.; KRYUKOV, V.L., red.; KOBYLYAKOV, L.M., red.; ZUBRILINA, T.P., tekhn. red.

[Practices in tractor repair] Opyt remonta traktorov. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 301 p. (MIRA 11:7)
(Tractors—Maintenance and repair)

CHISTYAKOV, Valentin Danilovich; KRYUKOV, V.L., red.; BALLOD, A.I., tekhn.red.

[Inspection of the quality of tractor repair; handbook] Kontrol' kachestva remonta traktorov; spravochnik. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 399 p. (MIRA 13:9)
(Tractors--Maintenance and repair)

ARTEM'YEV, Yu.N., kand. tekhn. nauk; ASTVATSATUROV, G.G., inzh.;
BARABANOV, V.Ye., inzh.; BARYKOV, G.A., inzh.; BISNOVATYY, S.I.,
inzh.; GALAYEVA, L.M., inzh.; GAL'PERIN, A.S., kand. tekhn. nauk;
GAL'CHENKO, I.I., inzh.; GONCHAR, I.S., kand. tekhn. nauk;
DEGTYAREV, I.L., kand. tekhn. nauk; DYADYUSHKO, V.P., inzh.;
YERMAKOV, I.N., inzh.; ZHOTKEVICH, T.S., inzh.; ZUSMANOVICH, G.G.,
inzh.; KAZAKOV, V.K., inzh.; KOZLOV, A.M., inzh.; KOROLEV, N.A.,
inzh.; KRIVENKO, P.M., kand. tekhn. nauk; LAPITSKIY, M.A., inzh.;
LEBEDEV, K.S., inzh.; LIBERMAN, A.R., inzh.; LIVSHITS, L.G., kand.
tekhn. nauk; LOSEV, V.N., inzh.; LUKANOV, M.A., inzh.; LYUBCHENKO,
A.M., inzh.; MAMEDOV, A.M., kand. tekhn. nauk; MATVEYEV, V.A.,
inzh.; ORANSKIY, N.N., inzh.; POLYACHENKO, A.V., kand. tekhn.nauk;
POPOV, V.P., kand. tekhn. nauk; PUSTOVALOV, I.I., inzh.;
PYTCHENKO, P.I., inzh.; PYATETSKIY, B.G., inzh.; RABOCHIY, L.G.,
kand. tekhn. nauk; ROL'BIN, Ye.M., inzh.; SELIVANOV, A.I., doktor
tekhn. nauk; SEMENOV, V.M., inzh.; SKOROKHOD, I.I., inzh.; SLABODCHIKOV,
V.I., inzh.; STORCHAK, I.M., inzh.; STRADYMOV, F.Ya., kand. tekhn.
nauk; SUKHINA, N.V., inzh.; TIMOFEYEV, N.D., inzh.; FEDOSOV, I.M.,
kand. tekhn. nauk; FILATOV, A.G., inzh.; KHODOV, L.P., inzh.;
KHROMETSKIY, P.A., inzh.; TSVETKOV, V.S., inzh.; TSEYTLIN, B.Ye.,
inzh.; SHARAGIN, A.M., inzh.; CHISTYAKOV, V.D., inzh.; BUD'KO, V.A.,
red.; PESTRYAKOV, A.I., red.; GUREVICH, M.M., tekhn. red.

(Continued on next card)

ARTEM'YEV, Yu.N.— (continued) Card 2.

[Manual on the repair of machinery and tractors] Spravochnik po remontu mashinno-traktornogo parka. Pod red. A.I.Selivanova. Moskva, Sel'khozizdat. Vols.1-2. 1962. (MIRA 15:6)
(Agricultural machinery—Maintenance and repair)
(Tractors—Maintenance and repair)

CHISTYAKOV, V.D.

POGORELYY, Ivan Pavlovich; CHISTYAKOV, V.D.; LUKANOV, M.A.; ROZIN, M.A., red.; PEVZNER, V.I., tekhn.red.

[Tractor repairing] Remont traktorov. Izd.3-e, dop.i ispr. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 495 p. (MIRA 11:1)
(Tractors--Maintenance and repair)

ANIKIN, A.G.; BYKOVA, S.F.; CHISTYAKOV, V.F.

Method for monomer purification by zone melting in a dry chamber. Plast. massy no.2:73-74 '64. (MIRA 17:3)

KISELEV, A.A., kand. tekhn. nauk; KUL'KOVA, M.N., inzh.; CHISTYAKOV, V.F., inzh.

Improving the quality of low carbon steel. Stal' 24 no.9:839-841 S '64. (MIRA 17:10)

1. Zavod "Krasnyy Oktyabr'".

PA 77T32

CHISTYAKOV, V. F.

USSR/Geophysics Mar 1948
Solar Phenomena

"Halos in Siberia," V. F. Chistyakov, 1 p

"Priroda" No 3

Reports series of observations of halos made from 1938 to 1942 in Krasnoyarsk region of Siberia. There is close connection between solar and lunar halos.

77T32

PA 37/49T86

CHISTYAKOV, V. F.

Feb 49

USSR/Geophysics
Clouds

"Luminous Clouds," V. F. Chistyakov, ½ p

"Priroda" No 2

Describes bright clouds observed in the Lithuanian SSR (Lat 50°55', Long 22°).

37/49T86

CHISTYAKOV, V. F.

20534 CHISTYAKOV, V. F. O stroye nii grupp solnechnykh pyaten. Byulleten' vsesoyuz. Astron.-geodez. o-va, No. 5, 1949, s. 5-8

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva - 1949

CHISTYAKOV, V. F.

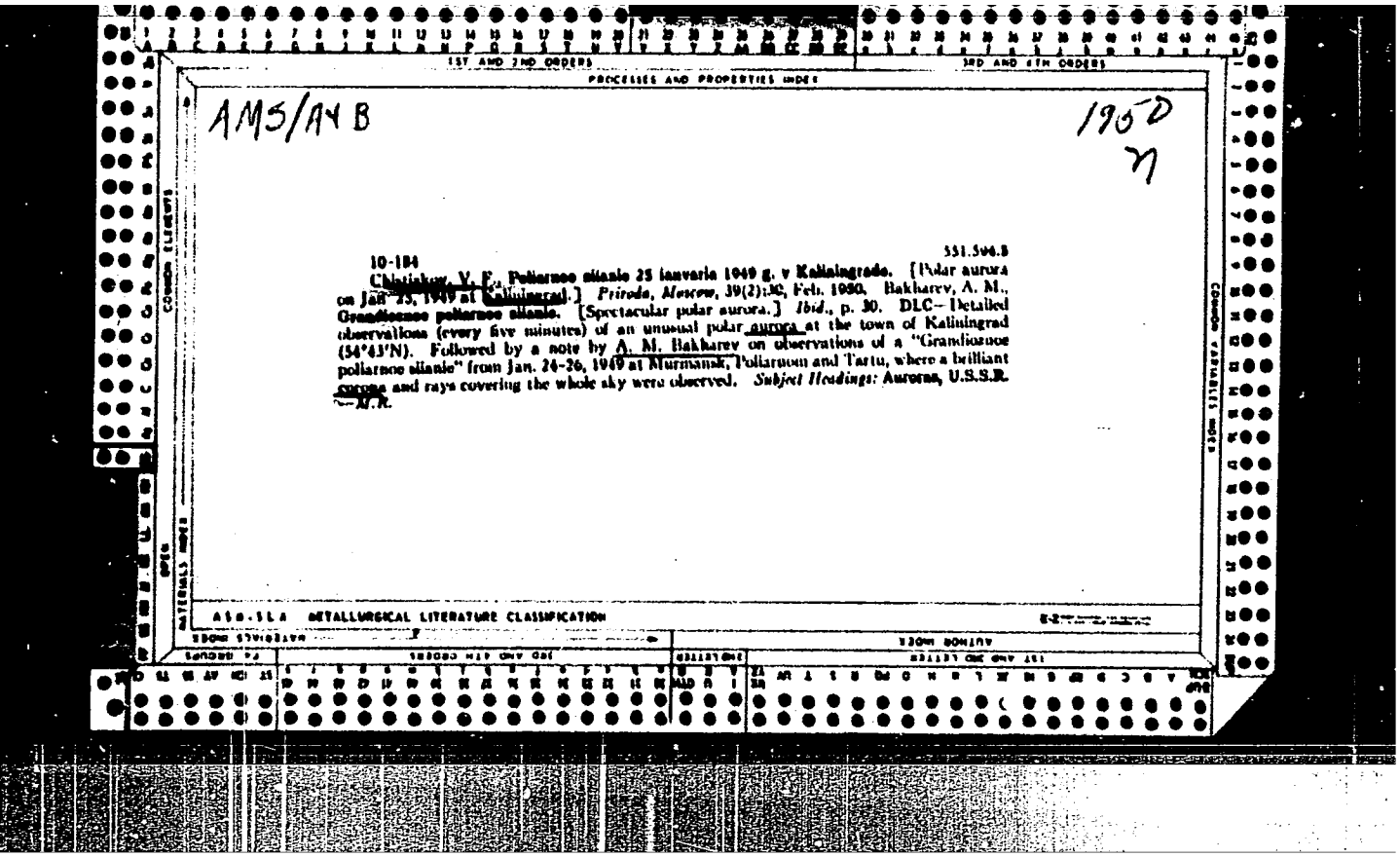
20533 CHISTYAKOV, V. F. O sruchayakh tsepnogo raspolozheniya solnechnykh pyaten. Byulleten' vsesoyuz. Astron.-geodez. o-va, No. 5, 1949, s. 9-13

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

CHISTYAKOV, V. F.

33882. Solnyechnaya Dyeyatyel'nost Za Poslyedniye 350 Lyet. Byullyetyen: Vsyesoyu z. Astron. - Gyeyodyez. O-va, No 7, 1949. C. 14-17.

SO: Letopis' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.



AMS/A4 B

1950
N

10-184 551.594.8

Chistiakov, V. F., Poliarnoe siianie 25 ianvaria 1949 g. v Kaliningrade. [Polar aurora on Jan. 25, 1949 at Kaliningrad.] *Priroda, Moscow*, 39(2):30, Feb. 1950. Bakharev, A. M., Grandioznoe poliarnoe siianie. [Spectacular polar aurora.] *Ibid.*, p. 30. DLC— Detailed observations (every five minutes) of an unusual polar aurora at the town of Kaliningrad (54°43'N). Followed by a note by A. M. Bakharev on observations of a "Grandioznoe poliarnoe siianie" from Jan. 24-26, 1949 at Murmansk, Poliarnoe and Tartu, where a brilliant corona and rays covering the whole sky were observed. *Subject Headings:* Aurorae, U.S.S.R. —*M.R.*

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

AMS/A+B

G

APR 1951

2.4-89 551.515.6(57)

Chistiakov, V. F., Petrovskii, B. I. and Kervanskaia, G. V., [illegible] [illegible] v [illegible] vremia goda. [Thunderstorms during the winter.] *Priroda*, Moscow, 39(11):49-50, Nov. 1950. DLC—Reports on thunderstorms at unusual times of the year: Kaliningrad on Nov. 10, 1948, Jan. 21, 1949 and March 15, 1950; Monchegorsk (Kola Peninsula) on May 17, 1950; Vladivostok region in Dec. 1949 during a blizzard. Such winter thunderstorms are not uncommon in coastal regions, but are very rare in continental or Arctic localities such as the above. *Subject Headings:* Winter thunderstorms, U.S.S.R.—*C. K.*

7xR+!

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1. CHISTYAKOV, V. F.

2. USSR (600)

4. Eclipses, Lunar - 1952

7. Partial lunar eclipse, February 11, 1952. Astron. tsir. no. 124: 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

CHISTIAKOV, V. F.

Earth - Density

Cosmic density of the earth. Astron. tsir. no. 125, 1952.

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

1. CHISTIAKOV, V. F.

2. USSR (600)

4. Auroras

7. Northern lights in the summer of 1952. Astron. tsir. no. 129, 1952.

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

CHISTYAKOV, V. F.

Sunspots

Prediction of solar activity for cycle No. 19, Astron. tsir. No. 130, 1952.

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

CHISTIAKOV, V. F.

Eclipses, Lunar - 1952

Partial lunar eclipse of August 5, 1952. Astron. tsir. no. 131, 1952.

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

CHISTYAKOV, V.F. (Kaliningrad).

Century course of solar activity according to minimum points.
Biul.VAGO no.13:29-30 '53. (MLRA 7:3)
(Sunpots)

CHISTYAKOV, V. F.

Solar System, Observation of Lunar Eclipses (1819)
Byull. Vses. astronomo-geodez. o-va, No 14, 1953, pp 39-49
CHERNOV, V. M. and CHISTYAKOV, V. F.
"Influence of the Earth's Atmosphere on the Brightness of Lunar Eclipses"
Geometrical and photometrical characteristics of lunar eclipses were studied from material gathered during 19 eclipses. Most of the observations were made within the USSR.

SO: Referativnyy Zhurnal--Astronomiya i Geodeziya, No 1, Jan 54;(W-30785, 28 July 1954.)

CHISTYAKOV, V.F.; TEYFEL', V.G.

Visible boundary of noctilucent clouds. Astron.tsir. no.139: 9-12 Je '53. (MLRA 7:1)
(Clouds)

CHERNOV, V.M.; CHISTYAKOV, V.F.

Cosmic dimensions of the earth. Astron.tsir. no.140:19-20 Ag '53.
(MLRA 7:1)
(Earth)

CHERNOV, V.M., CHISTYAKOV, V.F.

Structure of the earth's shadow. Astron.tsir. no.141:8-12 S '53.
(Eclipses, Lunar) (MLRA 7:7)

CHISTYAKOV, V. F.

"Some Peculiarities of the Cyclic Activity of the Sun," Byul. Vses. astronomo-geod. o-va, No 15, pp 20-24, 1954

Laws of the double cycle (22-23 years) are analyzed, concerning the relation between the rising cycle period, its power, and the ratio of power to the declining cycle period. It was found that near the extremes of the secular activity many laws are distorted. (RZhAstr, No 7, 1955)

Sum. No. 681, 7 Oct 55

CHISTYAKOV, V.F. (Kaliningrad)

Proper motions of sunspots of long duration. Biul.VAGO no.15:25-28 '54. (MIRA 8:4)
(Sunspots)

Chistyakov, V. F.

Visible border of noctilucent clouds. V. F. Chistyakov and V. G. Teifel. *Astron. Tsirkulyar* 1954, No. 146, 15–17; *Referat. Zhur., Astron. i Geodez.* 1955, No. 1010.—If the upper border of the apparent height of noctilucent clouds is detd. by the action of ultraviolet radiation from the sun and the screening effect of an O_3 layer, then the height of the effective O_3 layer depends on the phase of the solar activity cycle. During the period of max. solar activity, the disintegration of O_3 mols. under the effect of radiation of the wave-length range 2200–3100 A. is greater in the terrestrial atm. than in a period of min. activity. Radiation of 1300–1850 A. penetrates more deeply, forming at. O. Thus, the height of the O_3 layer decreases in the period of max. solar activity and increases in the period of min. activity, and does not remain at a height of 30 km., as was thought earlier. The height of the O_3 layer is calcd. by the formula: $H(\pm\Delta) = 30 \pm x$, $x = 816.66 \sin \Delta$ km., where x is the variance in height of the effective O_3 layer from the 30 km. level; parameter Δ is found from the table published earlier (*Referat. Zhur., Astron.* 1953, No. 1347). In the year of max. solar activity, $\Delta \simeq -40°$; in the year of min. activity, $\Delta \simeq +1°$; corresponding heights of the O_3 layer are 20 and 45 km. Sometimes in the period of min. solar activity the angular heights of the upper border of noctilucent clouds better satisfy the hypothesis of "a ray, tangent to the earth's surface." Anomalous cases are discussed, when two borders of noctilucent clouds are observed, one over the other, during min. solar activity. The lower border satisfies the hypotheses of the screening of ultraviolet radiation by an O_3 layer; the upper border satisfies the hypothesis of "a ray, tangent to the earth's surface." Thus, for noctilucent clouds the connection between Δ and W, Wolf's no., is in all probability the connection between the height of the effective O_3 layer and solar activity. Marjorie Kenner

CHISTYAKOV, V.F. (Kaliningrad)

Total lunar eclipse of January 19, 1954. Astron.tsir. no.146:10-13 F '54. (MLRA 7:6)

(Eclipses, Lunar--1954)

CHISTYAKOV, V.F. (Kaliningrad)

East-west asymetry sunspots. Astron.tsir. no.150:9-13 Je '54.
(Sunspots) (MLRA 8:3)

CHISTYAKOV, V.F.

Some characteristics of cyclic solar activity near the minimum.
Astron.tsir. no.158:22-24 Ap '55. (MLRA 8:9)
(Sunspots)

CHISTYAKOV, V.F. (Kaliningrad)

The law of planetary distances. Biul.VAGO no.17:51-56 '56.
(Planets) (MLRA 9:9)

14-57-7-14600

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7, p 53

AUTHORS: Chistyakov, V. F., Teyfel', V. G.

TITLE: The Nature of Silver Clouds (Nekotoryye voprosy prirody serebristykh oblakov)

PERIODICAL: Byul. Vses. astron.-geod. o-va, 1956, Nr 19, pp 17-30

ABSTRACT: Teyfel' reports the results of his observations of silvery clouds (SC), conducted from 1949 to 1953. He presents data on the frequency of their appearance, on their structural peculiarities, and on their intensity. His study offers certain postulates about the SC luminescence and on their relation to the solar activity. It is the authors' opinion that the study of angular elevations of the visible upper SC border will provide a means for ascertaining the SC luminescence. Observations of the visible upper border

Card 1/2

CHISTYAKOV, V.F

CHERNOV, V.M.(Zaprozh'ye); CHISTYAKOV, V.F. (Kaliningrad)

Halos and general atmospheric circulation. Biul. VAGO no.19:31-35 '56. (MLRA 10:3)

(Halos (Meteorolgoy)) (Atmosphere)

CHISTYAKOV, V.F.

Aurora Borealis of March 3, 1956. Astron.tsirk. no.169:22-23 '56.
(Auroras) (MLRA 9:10)

CHISTYAKOV, V.F. (g. Panevezhes),

Noctilucent clouds on July 2-3, 1956. Astron.tsir , no.172:22-23 Ag '56. (MIRA 10:1)
(Clouds)

CHISTYAKOV, V.I. (g. Panevezhis).

Observation of the total lunar eclipse of May 13-14, 1957. Astron. tsir. no.182:4-6 Je '57. (MIRA 11:3)
(Eclipses, Lunar--1957)

CHISTYAKOV, V.F. (g. Panevezhis).

Aurora Borealis of March, 1957. Astron. tsir. no.182:20-21 Je '57.
(Auroras) (MIRA 11:3)

CHISTYAKOV, V.F. (g. Panevezhis).

Aurora Borealis of July 1, 1957. Astron. tsir. no.183:22-23 Jl '57.
(Auroras) (MIRA 11:3)

CHERNOV, V.M.; CHISTYAKOV, V.F. (Zaporozh'ye - Kaliningrad)

Structure of the earth's shadow. Biul. VAGO no.22:12-22 '58. (MIRA 11:6)

(Eclipses, Lunar)

CHISTYAKOV, V.F.

Auroras borealis. Astron. tsir. no.190:29 Mr '58. (MIRA 11:9)
(Auroras)

CHISTYAKOV, V.F.

Applying Spoerer' law in determining the speed of meridian circulation on the sun. Astron. tsir. no.195:9-12 S '58. (MIRA 12:12)

1.Ussuriyskaya solnechnaya stantsiya.
(Sunspots)

CHISTYAKOV, V.F.

Peculiarities of the current cycle of solar activity.
Astron. tsir. no.196:6-8 O '58. (MIRA 12:12)

1.Ussuriyskaya solnechnaya stantsiya.
(Sun)

88822

S/035/61/000/002/007/016
A001/A001

3,1540(1062,1128,1168)

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1961, No. 2, p. 53, # 2A432

AUTHOR: Chistyakov, V.F.

TITLE: The Chromospheric Flare of 1958, October 21

PERIODICAL: "Solnechnyye dannyye", 1959 (1960), No. 9, pp. 81-83

TEXT: The author describes an interesting chromospheric flare of intensity 3. The flare was observed from 23^h18^m UT of October 21 to 1^h27^m UT of October 22 at the border of a sunspot group in the form of a chain of bright spots extended along the parallel. In the course of observations, the orientation and area of the flare almost did not change as well as did not change the neighboring filaments. The flare is characterized as "quiet". The luminosity attained a very high magnitude. An increase in the brightness of the sunspot nucleus was noted. Changes of the flare brightness proceeded as usually: a fast increase of brightness till maximum and slow decrease. The brightness of the sunspot nucleus dropped slightly at first, and then its increase was observed. After the maximum of the flare the

Card 1/2

88822

S/035/61/000/002/007/016
A001/A001

The Chromospheric Flares of 1958, October 21

sunspot nucleus brightness continued to grow and attained its peak in 14 minutes; it remained at a level of 90-85% of the neighboring background brightness during 2 hours 20 min. A noticeable drop of the sunspot brightness began only half-an-hour after the flare end. Simultaneous observations in the integrated light did not reveal any changes of the sunspot brightness. The author points out that the increase of the sunspot brightness was due to excitation of hydrogen atoms over the sunspot as a result of the radiation of the neighboring flare portion. He notes that a bright flare of intensity 3 was observed in the same zone after the flare described; it coincided with a briefly lasting increase in the area of the largest sunspot of the group and a brief decrease in the intensity of the magnetic field of this sunspot. The photographs of the first flare, and the curves of variations in the flare brightness and that of the sunspot are presented.

V. Yesipov

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

83441

3,1540

S/035/60/000/007/010/018
A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 7, p. 64, # 6343

AUTHOR: Chistyakov, V.F.

TITLE: A Chromospheric Flare Accompanied by an Eruptive Prominence

PERIODICAL: Astron. tsirkulyar, 1959, dek. 20, No. 207, pp. 6-8

TEXT: A bright flare accompanied by a giant eruptive prominence was observed on May 6, 1959, from 22^h55^m to 23^h0^m universal time. Observations were conducted with the aid of an АФП-2 (AFP-2) chromospheric telescope. The flare attained its maximum intensity at 22^h56^m (2.08 of continuous spectrum intensity). Shortly after the flare maximum a large prominence was formed the maximum recorded height of which amounted to 645,000 km. The observations yielded the following characteristics of the prominence: maximum height, motion speed of individual parts of its top, and peculiarities of the motion. These characteristics are cited.

N.P.K.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1 [redacted] Far Eastern Affil. Siberian Dept., AS USSR

CHISTYAKOV, V.F. (g.Panevezhis)

Partition of statistical regularities of sunspot cycles in two series. Biul.VAGO no.25:12-18 '59. (MIRA 13:3)
(Sunspots)

BRONSHTEN, V.A.; CHISTYAKOV, V.F.

Origin of lunar craters with rays. Biul.VAGO no.26:15-21 '60.
(MIRA 13:10)

1. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.
(Moon--Surface)

S/035/61/000/011/018/028
A001/A101

AUTHOR: Chistyakov, V. F.

TITLE: Numbers of appearing and disappearing groups on the rotating Sun

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 11, 1961, 63, abstract 11A449 ("Byul. Vses. astron.-geod. o-va", 1960, no. 28 (35), 21 - 26)

TEXT: The author attempts to interpret the known east-west asymmetry in the numbers of sunspot groups as an effect of Sun's rotation. He sets up the problem to find the theoretical distribution of the numbers of appearing and disappearing sunspot groups on the rotating Sun as functions of longitude from the central meridian; the other problem is to clear up how much Sun's rotation changes the pattern as compared with that which had existed, provided the Sun were facing the observer with the same side. The concept of "visibility threshold" is used, i.e. minimum dimensions of a sunspot which render it distinguishable. This quantity S_0 is connected with the observed area S by the relation $S_0 = S \cdot F(\lambda)$, where $F(\lambda)$ is the so-called "visibility function". The author criticizes Waldmeier and Kopetskiy for selection of the form of function $F(\lambda)$. The author holds

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Numbers of appearing and...

that this function can be more correctly determined directly from observations for which Maunder's data for 1889 - 1901 are used, as well as the fact that Sun's rotation does not affect the form of function F. The following formulae are derived for the numbers of appearing and disappearing groups:

$$n_{app} = n_o F(\lambda) + N_o[F(\lambda) - F(\lambda-\xi)],$$
$$n_{disapp} = n_o F(\lambda) - N_o[F(\lambda+\xi) - F(\lambda)],$$

where $N_o \approx n_o t$; n_o is the total number of groups within interval $\Delta\lambda$ near the central meridian, t is average life time of a group in days, $\xi = 13^o.2$. Quantities n_{app} and n_{disapp} are taken from Maunder's observations for 1925 - 1929. The values of n_o and N_o are determined by the least-square method. The correlation between the values obtained from observations and theoretical ones for n_{app} and n_{disapp} amounts to 0.985 in the first case and 0.941 in the second case. The author compares the numbers of appearing and disappearing sunspot groups at various distances from the central meridian for rotating and non-rotating Sun and finds out that Sun's rotation rather essentially disturbs the symmetry between the western and eastern hemispheres. The number of appearing groups on the eastern

Card 2/3