

BANNOV, A.T.; OKUNTSOV, I.V., kand.veter.nauk

Early spring farrowing in small movable huts is a measure for
ridding swine of plague. Veterinariia 37 no.1:27-29 Ja '60.

(MIRA 16:6)

1. Nachal'nik veterinarnogo otdela Krasnoyarskogo krayevogo
sel'skokhozyaystvennogo upravleniya (for Bannov). 2. Sibirskiy
nauchno-issledovatel'skiy veterinarnyy institut (for Okuntsov).
(Swine plague) (Swine houses and equipment)

OKUNTSOV, L.P.

Puncture of the heart for obtaining blood from fowl, Lab. delo
7 no.1:53-56 Ja '61. (MIRA 14:1)

1. Berezovskaya mezhrayonnaya vstbaki laboratoriya (Stalingradskaya
oblast').

(BLOOD—COLLECTION AND PRESERVATION)

OKUNTSOV, L. P. (Bereznovsk Interraion Veterinary Bacteriological Laboratory of
Volgogradsk Oblast')

"About age changes of carotin content in the blood serum of hens and ducks"

Veterinariya, vol. 39, no. 4, April 1962 p. 66

OKUNTSOV, L.P.

Age-related changes of the carotene content in the blood serum
of hens and ducks. Veterinariia 39 no.4:66-68 Ap '62.

(MIRA 17:10)

1. Berezovskaya mezhrayonnaya veterinarno-bakteriologicheskaya
laboratoriya Volgogradskoy oblasti.

SHISHKOV, V.P., dotsent; BABAK, I.M., aspirant; SOLOV'YEV, P.A., dotsent;
DANILEVSKIY, V.M., dotsent; VISHNYAKOV, S.I., dotsent;
TITOV, G.I.; OKUNTSOV, L.P.; APANAS'YEV, V.P.; ZHAROV, A.V.,
assistant; SLUGIN, V.S.; KRYLOV, O.N., aspirant

Noninfectious diseases. Veterinariia 41 no. 4164-80 Ap '64.
(MIRA 17:8)

1. Moskovskaya veterinarnaya akademiya (for Shishkov, Zharov).
2. Belotserkovskiy sel'skokhozyaystvennyy institut (for Babak).
3. Velikolukskiy sel'skokhozyaystvennyy institut (for Solov'yev).
4. Kurskiy sel'skokhozyaystvennyy institut (for Vishnyakov).
5. Zaveduyushchiy otdelom nezaraznykh zabolovaniy Buryatskoy nauchno-proizvodstvennoy veterinarnoy laboratorii (for Titov).
6. Zaveduyushchiy Berezovskoy veterinarnoy laboratoriyey, Volgogradskaya obl. (for Okuntsov).
7. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva Kraynego Severa (for Afanas'yev).
8. Pushkinskiy zverosovkhoz Moskovskoy oblasti (for Slugin).
- 9 Leningradskiy veterinarnyy institut (for Krylov).

OKUNTSOV, L.P.

Effect of egg carotenoids on the development of chicks.
Veterinariia 41 no.6:84-86 Je '64. (MIRA 18:6)

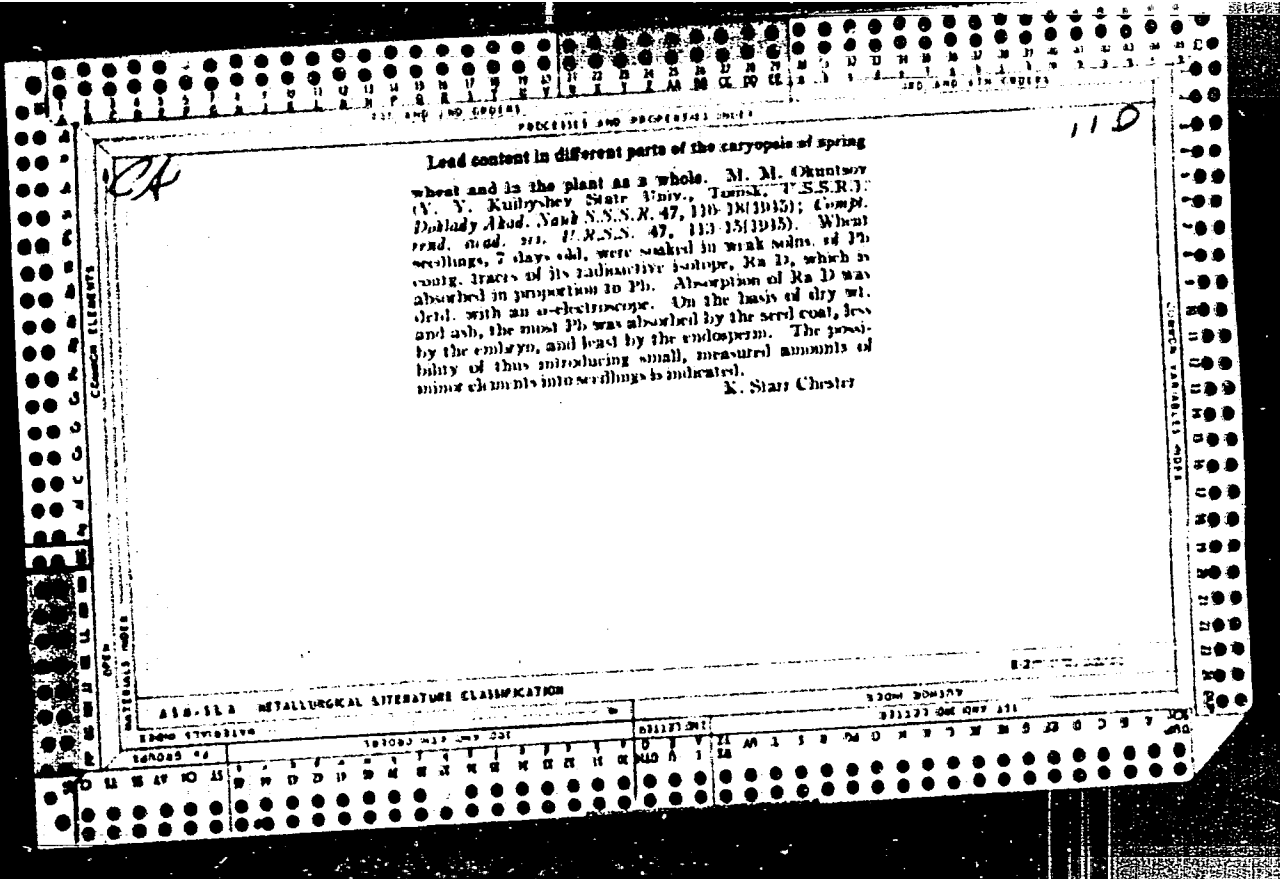
1. Berezovskaya veterinarnaya laboratoriya Volgogradskoy oblasti.

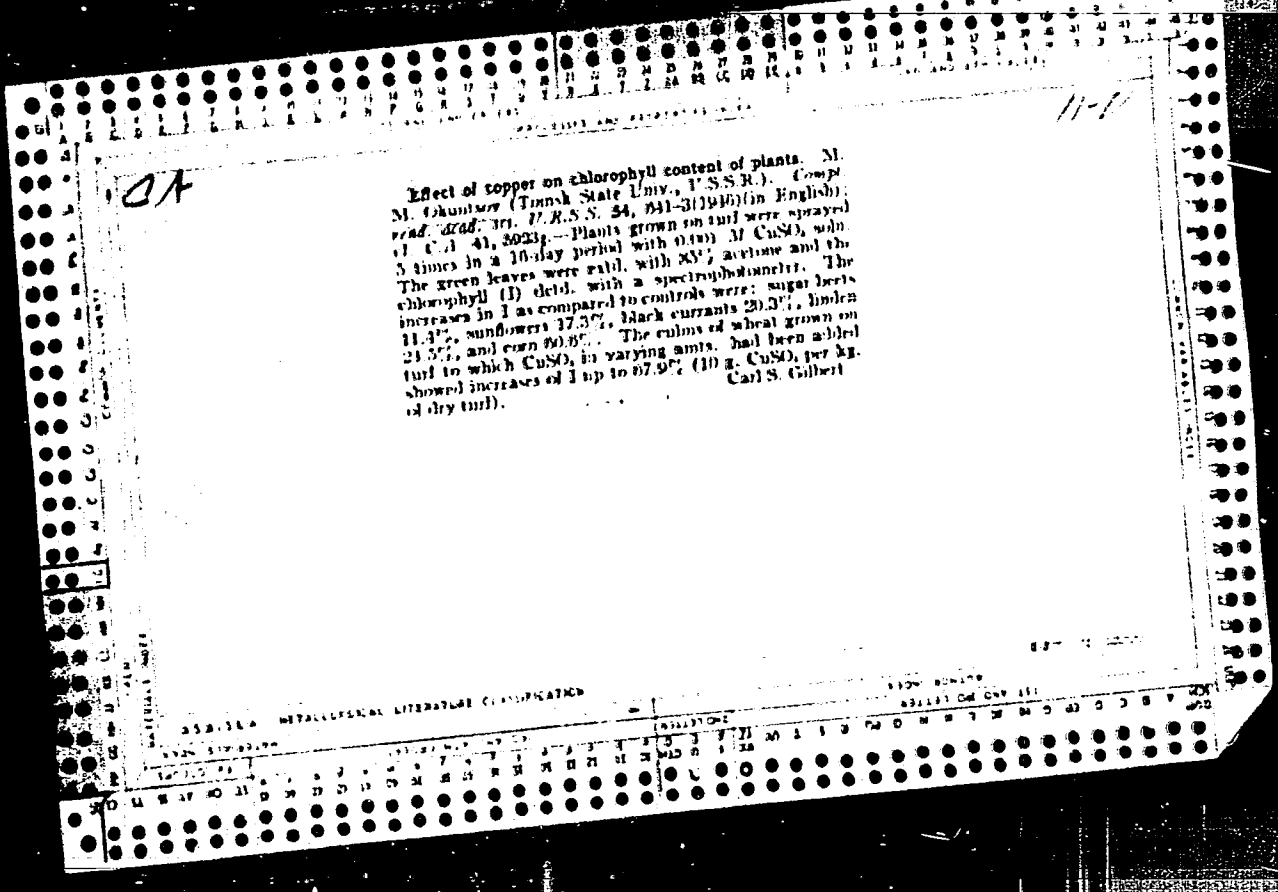
OKUNTSOV, L.P.

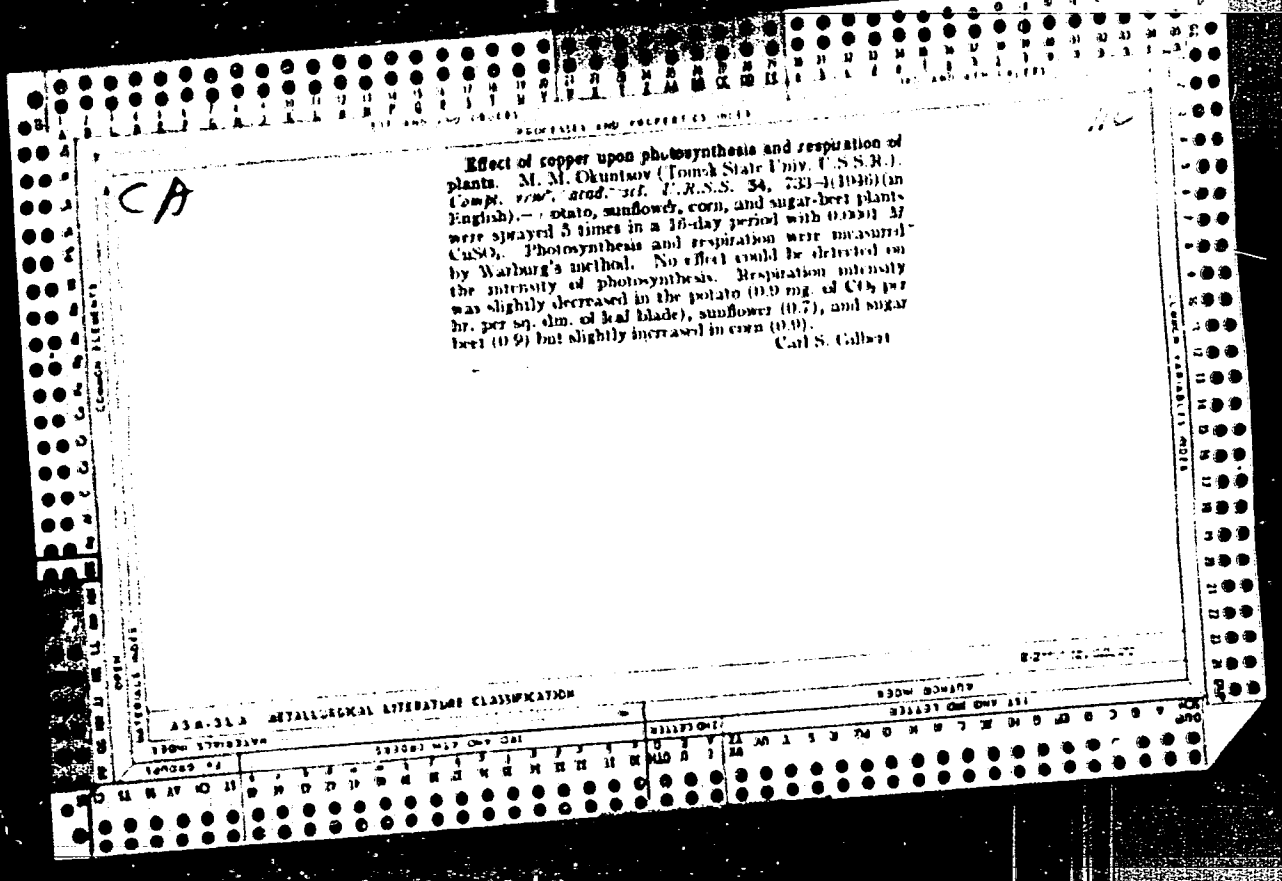
Early diagnosis of hypovitaminosis A and its symptoms in
ducklings. Veterinariia 42 no.8:77-79 Ag '65.

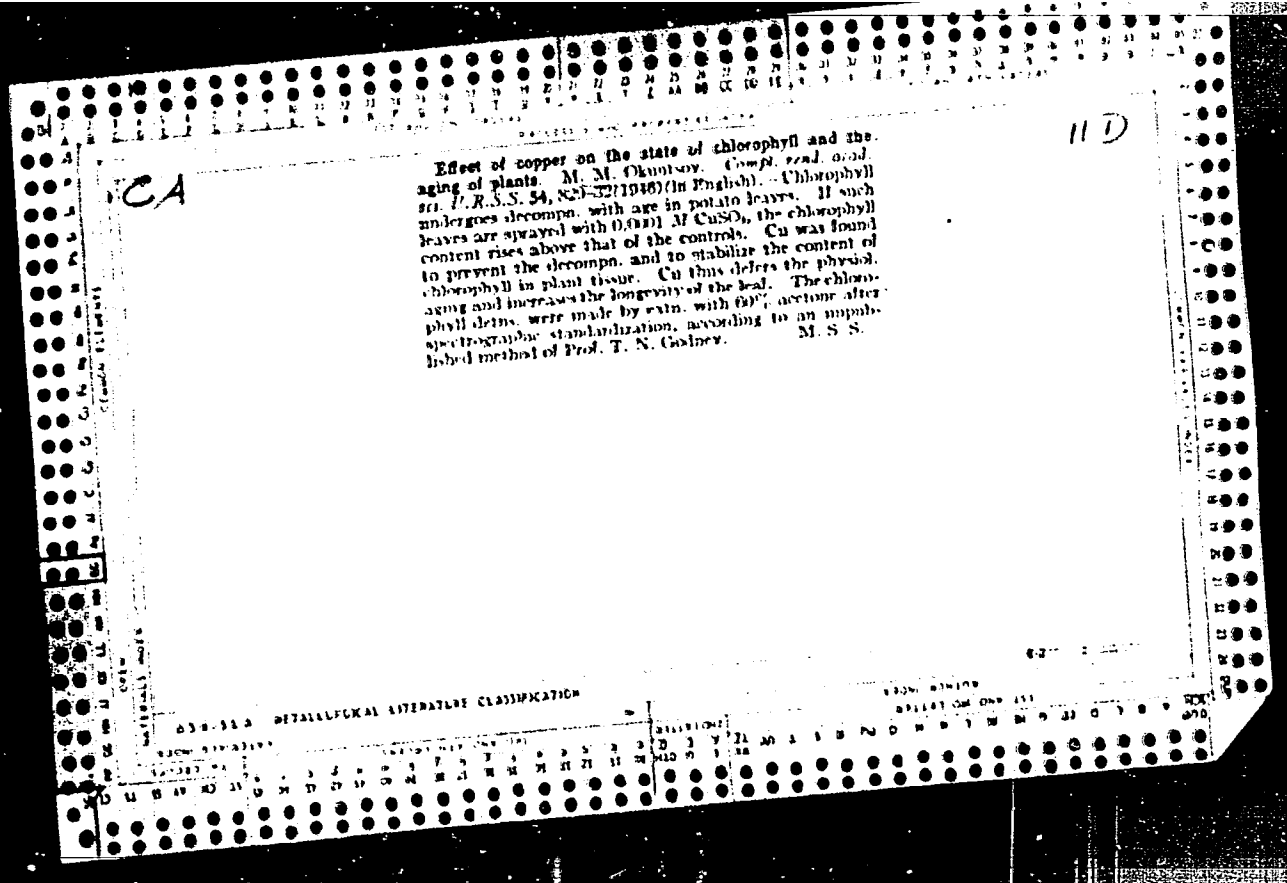
(MIRA 18:11)

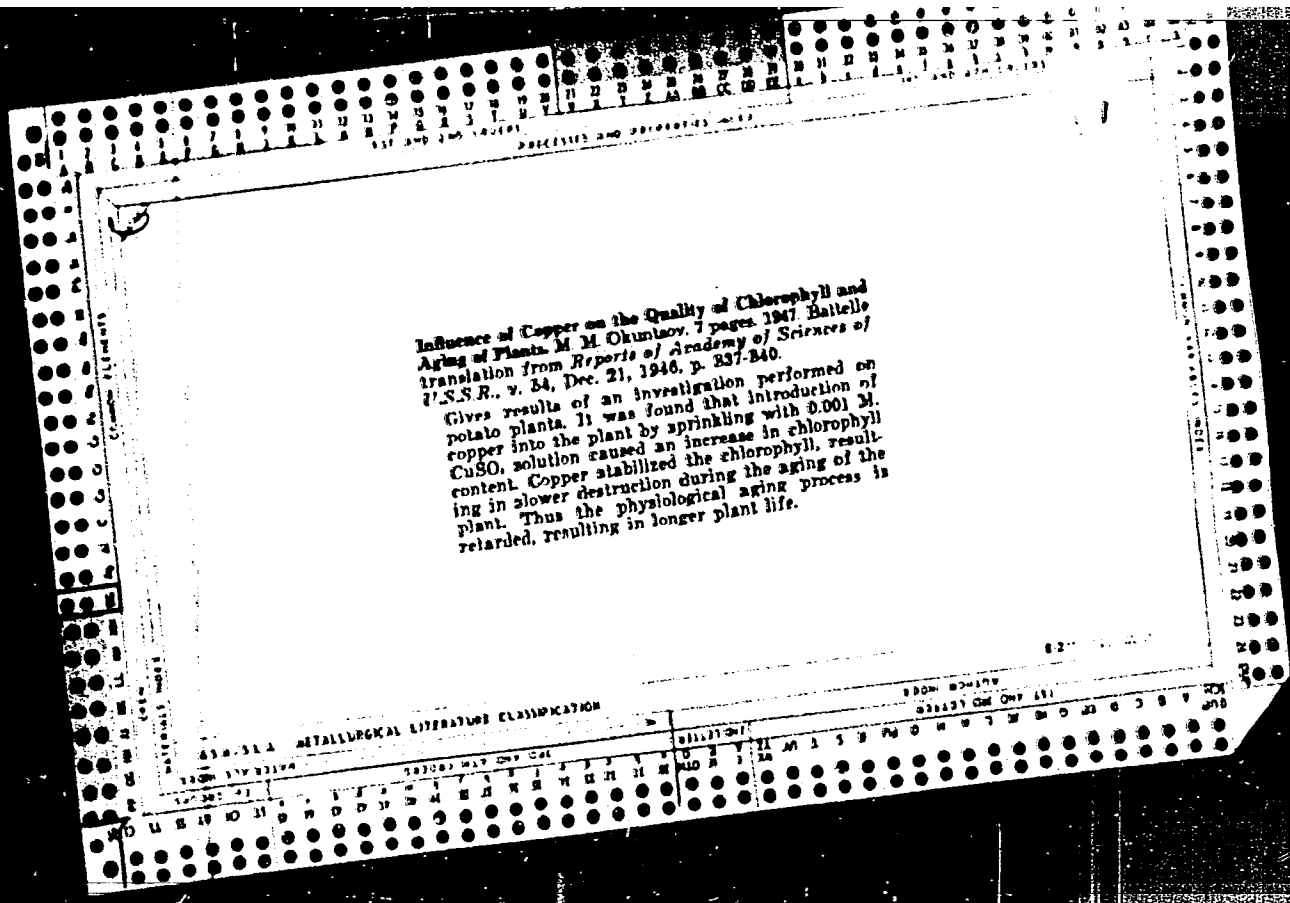
1. Volgogradskiy sel'skokhozyaystvennyy institut.











PA 53T56

OKUNTSOV, M. M.

USSR/Medicine - Chlorophyl
Medicine - Metals

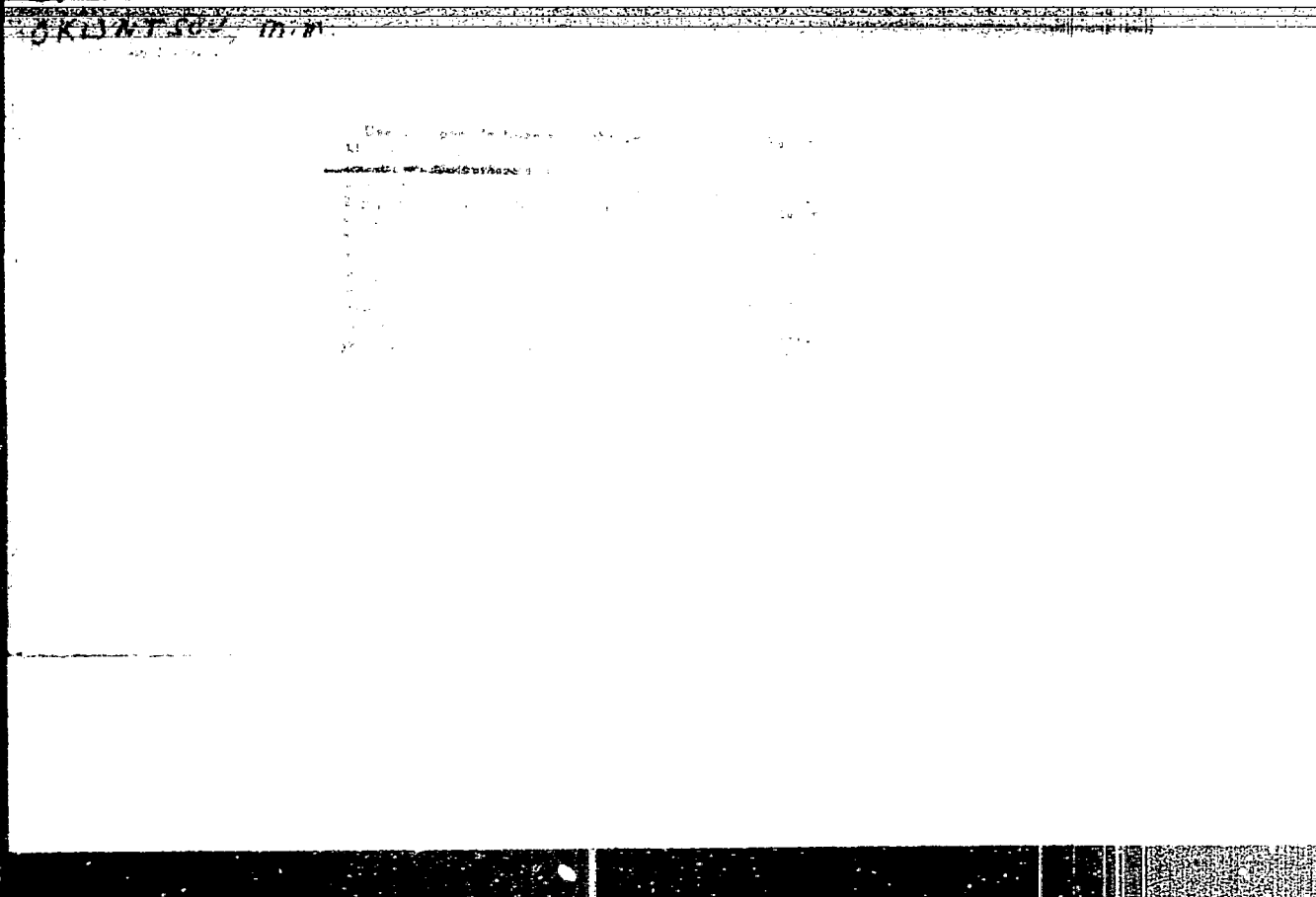
Aug 1947

"Effect of Copper on the Production of Chlorophyl,"
M. M. Okuntsov, Lab of Photosynthesis, Acad Sci USSR,
Tomsk State U imeni V. V. Kuybyshev, 2 pp

"Dok Akad Nauk BSSR, Nova Ser" Vol LVII, No 4

Studies show that copper does not have any acceler-
ating effect on formation of chlorophyl, but does have
a stabilising effect, its presence retarding the pro-
cess of disintegration of chlorophyl. Submitted by
Academician A. A. Rikhter, 24 Feb 1947.

53T56



2A

Effect of copper on water regime and drought-resistance of plants. M. M. Okunov, and O. P. Lestova (V. Kuibyshev State Univ., Tomsk). Doklady Akad. Nauk S.S.S.R. 32, 349-51(1952). — Introduction of 2-6 g. CuSO₄ per kg. of soil causes improved protein synthesis in wheat plants, improves the water regime, and raises drought-resistance of the plants. Particularly Cu aids water retention, and the amt. of bound water in the leaves is increased. G. M. Kosolapoff

CA

11-D

State of water in plants. M. M. Okunov and E. N.

Tatamova (V. V. Kuzbyshev State Univ., Tomsk). Doklady
Ibid. Nauk S.S.S.R. 83, 315-17 (1959). Papers in which
leaves of wheat, barley, and legume plants were immersed
in strong sucrose solns. so as to cause diffusion of "free"
 H_2O from the leaves indicate that such a process is not uni-
form; H_2O is lost stepwise in all cases, indicating a different
degree of binding. The indications are that no truly free
water exists as such, or at least if it does exist in this state in
plant, the fraction is very small. The refractometer is con-
venient for the detn. Wheat shows greatest H_2O binding.
G. M. Kosolapoff

Okun'tsov, A. M.

924

The effect of copper on the synthetic processes of plants and some ideas on the mechanism of essential synthesis. M. M. Okun'tsov and O. A. Rom'zhina. *Mikrochemicheskii Zhurnal* 1956, 41: 90; *Referat Zhurn., Khim., Biol. Khim.* 1957, No. 3816. The experiments were performed with vernalized wheat and with hemp. A study was made of the effect of Cu and of H₂S on the activity of peroxidase (I), protease (II), amylase (III), and of lipase (IV) and on the protein content (V), the amino acids (VI), the sugars, the pentosans and the fats in plants. The addition of Cu to wheat plants 2 weeks old increased the I by 40%, and reduced the activity of II by 50%, the content of V increased by 44% and of VI was reduced by 50%. H₂S reduced the activity of I to a considerable extent and lowered the activity of II by 50%; the content of V was reduced by 50%, but the content of VI increased by 20%. In the case of the addition of Cu, while the activity of I as shown above increased, the activity of III was considerably lowered, and the sugar content increased by 40-60%. The addition of H₂S enhanced the activity of III and lowered the content of V. The synthesis of pentosans in the wheat plant increased under the influence of Cu. Cu reduced the activity of IV by almost 40% and the fat content was increased by 4%. H₂S enhanced the activity of IV, but the fat content remained unaffected. The authors think that to increase the intensity of the oxidative processes of the plants and thereby favorably affect the plants' synthetic processes of many substances; H₂S impeded the plants' oxidative processes and enhanced the activity of the hydrolyzing enzymes. I. B. Levin

OKUNTSOV, M.M.; ZYRYANOVA, G.D.

Effect of herbicides on metabolism in plants. Izv. Tomsk.
otd. VBO 4:87-90 '59. (MIRA 14:6)

1. Kafedra fiziologii i biokhimii rasteniy Tomskogo gosudarstvennogo
universiteta imeni V. V. Kuybysheva.
(Plants—Metabolism)
(Plants, Effect of chemicals on)

IOGANZEN, B.G., OKUNTSOV, M.M.; PEGEL', V.A.

Interrelationships of chemistry and physics with biology. Manch.
dokl. vys. shkoly; biol. nauki no.3:210-212 '60.

(MIRA 13:8)

(Biological research)

OKUNTSOV, M. M.; GOL'D, V. M.; GLUSHKOVA, R. I.

Participation of xanthophylls (violaxanthin and lutein) in the process of photosynthesis. Nauch. dokl. vys. shkoly; biol. nauki no.3:129-132 '62. (MIRA 15:7)

1. Rekomendovana kafedroy fiziologii i biokhimii rasteniy i laboratoriyey fotosinteza Tomskogo gosudarstvennogo universiteta im. V. V. Kuybysheva.

(PHOTOSYNTHESIS) (XANTHOPHYLL)

L 39311-65 EWG(3)/EWG(FEWENT(1)/ES(v)-3/EWG(iv),EWG(a)-2/EWG(c) Fed

ACCESSION NR: AR5006791

3/0299/65/000/001/1001

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 194

AUTHOR: Okuntsov, M. M.; Ron'zhina, O. A.; Simonova, Ye. I.

TITLE: Effect of light spectral composition on chlorophyll biosynthesis in plants

CITED SOURCE: Raboty Problemm. labor. fotosinteza pri Kafedre fiziol. i biokhimi rast. Tomskiy un-t, vyp. 1, 1964, 69-90

TOPIC TAGS: plant, barley, light brightness, light spectral composition, chlorophyll, biosynthesis

TRANSLATION: Four and six day old sprouts of etiolated and green barley were investigated in the first leaf phase. Green light, especially yellow-orange light (with an intensity of $9 \cdot 10^3$ ergs/cm²/sec) were found most favorable for formation of chlorophyll a and b in etiolated sprouts. Chlorophyll levels for green light were close to those for white light. At equal intensities, yellow light produced an effect similar to that for yellow-orange light and green

Card 1/2

L 39311-65

ACCESSION NR: AR5006791

light. Chlorophyll formation was significantly poorer in the presence of red light than in green, yellow-orange, and yellow light. In determining the effect of different light spectral compositions on chlorophyll levels in green barley leaves kept in the dark for 48 hrs, it was established that in all experiments with white light the level of chlorophyll a increases by 20-43% and the level of chlorophyll b increases by 23-54%. Pigments did not increase in infrared and red light. For green light, the level of chlorophyll a increased by 24% and of chlorophyll b by 17%. Yellow-orange light had practically no effect on the chlorophyll levels. It is concluded that the medium wave length range of the spectrum is most favorable for the chlorophyll formation process in etiolated and green barley sprouts. Ye. Yurin.

SUB CODE: LS

ENCL: 00

Card 2/2 50

L 64666-65

ACCESSION NR: AR5017512

UR/0299/65/000/013/G005/G005
581.132

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs 13G39

AUTHOR: Okuntsov, M. M., Ron'zhina, O. A., Simonova, Ye. I.

TITLE: Effect of the spectral composition of light on carotinoid biosynthesis in plants

CITED SOURCE: Raboty Problemn. labor. fotosinteza pri Kafedre fiziol. biokhimiil rast. Tomskiy un-t, vyp. 1, 1964, 91-113

TOPIC TAGS: plant chemistry; biosynthesis; light biologic effect

TRANSLATION: The yellow pigments were determined by chromatography according to D. I. Sapozhnikov's method with slight modifications. Light intensity was $20-25 \cdot 10^3$ and $1 \cdot 10^3$ erg/cm² sec. The greatest amount of carotenoids in green and etiolated barley shoots was found under green light. This also applies to xanthophylls, but their accumulation also increased under light of low intensity. The etiolated shoots irradiated with low-intensity

Cerd1/2

L 64666-65

ACCESSION NR: AR5017512

light also developed a kind of xanthophyll which was not identified by the author. Green shoots showed a lesser reaction to the qualitative composition of light than etiolated shoots. In the latter, reduced forms of xanthophylls prevailed in oxidized forms. Upon irradiation with various segments of the visible spectrum and infrared light, a change of the ratio between the different xanthophylls was observed. L. Polishchuk

SUB CODE: LS

ENCL: 00

Card

7 1/2 L

L 01829-66

ACCESSION NR: AR5017513

UR/0299/65/000/013/G006/G006

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 13G41

AUTHOR: Okuntsov, M. M.; Osharov, A. B.; Nazarenko, I. V.

TITLE: Effect of light of different spectral composition on the relationship of protein fractions and the quantity of free amino acids in bean leaves

CITED SOURCE: Raboty Problemn. labor. forosinteza pri Kafedre fiziol. i biokhimii rast. Tomskiy un-t, vyp. 1, 1964, 114-122

TOPIC TAGS: radiation plant effect, plant chemistry, chromatographic analysis, protein, amino acid, glutamic acid, tyrosine, valine, leucine, lycine

TRANSLATION: A quantitative determination of free amino acids was carried out with ascending chromatograms by the method of G. N. Zaitseva and N. P. Tyuleneva. Intensity of irradiation was 3000 ergs/cm²-sec. The smallest content of salt soluble protein was observed in green light, and of alkali soluble protein in orange red light. In the dark, substantial changes take place in the composition
Card 1/2

L 01829-66

ACCESSION NR: AR5017513

of the amino acids: there is a considerable rise in the content of asparagine, glutamic acid, tyrosine, valine, leucine, and of an unknown amino acid X₂. On illumination with white light lysine appears, and there is a decrease in the content of glutamic acid and alpha-alanine. On illumination with blue violet light, orange red light, and infrared light, the content of free amino acids is close to that observed in plants placed in the dark. However, the lysine content in blue violet and white light is considerably greater than in orange red and infrared light. The content of alpha-alanine in blue violet light is the same as in the dark, in orange red light it is less by 3 times, and in infrared light it is the same as with illumination by white light. 30 literature titles. L. Polishchuk

SUB CODE: LS

ENCL: 00

Card 2/2

L 38553-65 EWG(j)/EWG(r)/EXT(1)/FS(v)-3/EWJ(v)/EWJ(a)-2/EWJ(c) Pe-5 31
ACCESSION NR: AR5006792 3/0299/65/000/001/0002/0001

SOURCE: Ref. zh. Biologiya. Svodnyy tom. Abs. 109

AUTHOR: Okuntsov, M. M.; Kudinova, L. I.

TITLE: On the method of determining chlorophyll a and b on a photoelectric colorimeter

CITED SOURCE: Raboty Problemn. labor. fotosintesa pri Kafedre fiziol. i biokhimii rast. Tomskiy un-t, vyp. 1, 1964, 123-126

TOPIC TAGS: oat leaf, chlorophyll, photoelectric colorimeter, colorimetric analysis

TRANSLATION: A chlorophyll extract was prepared from oat leaves. Separation into chlorophylls a and b was done according to D. I. Sapozhnikova's method. Chlorophylls a and b were determined in an acetone solution by means of an SP-4 and FEK-M. In determining chlorophylls a and b on a photoelectric colorimeter and plotting a calibrated curve according to a standard Getri (Translator's Name is transliterated from Russian, solution (corresponding to a

Card 1/2

L 38553-65

ACCESSION NR: AR5006792

85 mg/l chlorophyll concentration), the values for chlorophyll a were 3 times higher and for chlorophyll b were 2.7 times higher compared to data obtained on an SF-4. On the basis of these data, the author recommends that, in determining chlorophylls a and b in pure solutions on a photoelectric colorimeter, a standard Cetri solution be taken as corresponding to 28.3 mg/l chlorophyll a and 31.5 mg/l chlorophyll b and not 85 mg/l as assumed in visual colorimetry. Ye. Yurina.

SUB CODE: IS

ENCL: 00

ce
Card 2/2

OKUNIKOV, M.M.; 1985 11.

Localization of the chemical movement of bean leaf. Nauch.dokl.vys.
shkoly; Biol.nauki no.9:218-223 '85. (MIRA 18:3)

1. Rekomendovana laboratoriy fiziologii i biokhimii rasteniy i
problemnoy laboratoriy defolitsatsii Tomsogo gosudarstvennogo
universiteta L. V. V. Kuznetsova.

GRUNTSOVA, Ye.A.; ROZNIKOV, L.N., dots., otv. red.; VOLOSHIN,
G.D., red.

[Projection drawing; a manual] Proektsionnoe chertchenie;
uchebnoe posobie. Novosibirsk, Zapadno-Sibirskoe knizhnoe
izd-vo, 1965. 113 p. (MIRA 18:11)

USSR/Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae. R

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40635.

Author : Bobrov, P. F., Okunycva, V. V., Dudorova, Ye. P.
Inst : State Scientific Control Institute of Veterinary Preparations.

Title : Use as Antigen of Banked Blood Crystal-Violet of Pest Afflicted Pigs.

Orig Pub: Tr. Gos. nauchno-kontrol'n. in-t po vetpreparatam, 1956, 6, 97-100.

Abstract: It was demonstrated that the swine pest virus, when processed through crystal-violet and inactivated in a thermostat at a 37-38° temperature for 20 days, for 14 days, and then not subjected to inactivation,

Card : 1/2

OKUNZ, L. B.

SUBJECT USSR / PHYSICS
AUTHOR IOFFE, B.L., OKUNZ, L.B.
TITLE On the Burning-Up of Fuel in Nuclear Reactors.
PERIODICAL Atomnaja Energiya, 1, fasc. 4, 80-91 (1956)
Issued: 19.10.1956

CARD 1 / 2

PA - 1517

The present work describes a method for the computation of this burning-up in consideration of the capture and the multiplication of neutrons in the course of the process of slowing down. In the course of computations the burning-up of U^{235} as well as the accumulation and the burning-up of Np^{239} , Pu^{239} , Pu^{240} , Pu^{241} and of the fission fragments (poisons) is taken into account. Here the change with respect to time of the reactivity of the reactor (dynamic of burning-up) in the case of the high burning-up of the fuel for systems of natural uranium with heavy water as a moderator is investigated. The work is arranged as follows: Multiplication during slowing down, the dynamic equations, changes of reactivity, computation of the burning-up of the fuel in reactors with natural uranium and heavy water as a moderator.

Summary: The numerical computation of the systems of natural uranium and heavy water as a moderator show that with a decrease of the reactivity of the reactor the accumulation of Pu^{240} as a result of the great resonance absorption by the level at 1,07 eV plays an important part. The duration of the operation increases considerably (compared with the case that the entire reactor is cleared out at one and the same time) if the reactor operates stead-

OKUNJ, L.B.

SUBJECT USSR / PHYSICS
 AUTHOR OKUNJ, L.B.
 TITLE On the Decay Probability of Σ^- -Particles.
 PERIODICAL Zurn. eksp. i teor. fis, 31, fasc. 2, 333-335 (1956)
 Issued: 5.10.1956

CARD 1 / 2

PA - 1540

In the case of this decay an energy of ~ 115 MeV is liberated, which corresponds to the scattering of pions with ~ 140 MeV (in the laboratory system) by nucleons. At such energies the scattering of pions by nucleons is already very considerable. At first the total and the orbital angular momenta J and L of the pion-nucleon system created on the occasion of the decay of the Σ^- -particle is given in dependence on the spin S and the parity P of the hyperon. L and J are univocally determined by S and P .

Here the two possible decay processes of the Σ^- -hyperon are studied: $\Sigma^+ \rightarrow p + \pi^0$ and $\Sigma^+ \rightarrow n + \pi^+$. When "switching off" the weak interaction there are only diagonal elements which modify Σ^+ into Σ^+ and by which the system pion-nucleon with given T is modified into a state with equal T . However, by "switching on" weak interaction also nondiagonal elements occur which modify the Σ^- -particles into states of the pion-nucleon system with $T = 3/2$ and $T = 1/2$. These nondiagonal elements are: $i q_3 e^{i \alpha_3}$ and $i q_1 e^{i \alpha_1}$ with real q_3 and q_1 . The amplitudes of the transition of the Σ^+ hyperon into the states $\pi^+ n$ and $\pi^0 p$ are given, as also the phase differences for the various spin- and parity states of the Σ^- -hyperons. Furthermore, the limits of the range of values of $\chi = \omega_0 / \omega_+$ (ω_0 and ω_+ - de-

OKUNJ, L. B.

SUBJECT USSR / PHYSICS
AUTHOR OKUNJ, L. B. CARD 1 / 2 PA - 1948
TITLE Congress on the Physics of Particles of High Energies.
PERIODICAL Usp. fis. nauk, 61, fasc. 1, 103-128 (1957)
Issued: 3 / 1957

In the first department "The Elementary Particles and their Interaction" among other lectures were delivered on the following problems: Production of pions by nucleons, the spectra of secondary protons and deuterons on the occasion of (p-p) collisions at an energy of 660 MeV, the energy spectra of positive pions in connection with the reaction $p + p \rightarrow p + n + \pi^+$ at 556 and 657 MeV, the production of charged mesons on Li^6 - and Li^7 nuclei by 240 MeV protons, the theory of the multiple production of particles, energy spectra of γ -quanta on the occasion of the decay of neutral pions, the production of neutral pions by protons on hydrogen and composed nuclei, the production of neutral pions by 580 MeV neutrons, the antiproton (E. SEGRE), experimental data concerning the scattering of fast nucleons by nucleons, the elastic scattering of 580 MeV neutrons by protons and neutrons, the present stage of the meson theory and comparison with the experiment, the scattering of positive pions by protons at 310 MeV and also at 176, 200, 240, 270 and 307 MeV, the interaction between negative 300 MeV protons and helium nuclei, the search for acts of generation of positive pions on carbon by negative 308 MeV pions, the range of pions in nuclear matter, the polarization of 660 MeV protons, the photoproduction of

Usp.fis.nauk, 61, fasc.1, 103-128 (1957)

CARD 2 / 2

PA - 1948

mesons on protons and deuterons, effects in quantum-electrodynamics at high energies, etc.

In the second department more than 60 lectures were held by Soviet and foreign scientists on the construction and the theory of various types of accelerators for elementary particles. The following subjects were dealt with: accelerators, linear accelerators, devices with strong focussing, the methods employed in connection with experiments with high-energy particles. Individual lectures dealt, among others, with the following problems: the 6 m - synchrocyclotron of the Institute for Nuclear Problems of the Academy of Science in the USSR, some particular features and the principal data of the high-frequency system of this synchrocyclotron, further problems connected with the synchrocyclotron, the deflection of a bundle in a cyclotron, a 1,5 m cyclotron, the physical bases of the equipment of the 10 BeV synchrophasotron, radiofrequency systems for accelerators, the accelerating elements of a synchrophasotron, further technical problems connected with the synchrophasotron, etc. The third department dealt with theoretical works concerning the physics of particles with high energies. The above congress took place from the 14. to the 22. May at Moscow. The above review deals mainly with lectures delivered by Soviet scientists.

INSTITUTION:

SHARON, M. G., and DENNEY, S. N.

"The nature of Guzman solutions," (also presented at the 1964 symposium on the Chemistry and Physics of High Polymers, 21 Jan-2 Feb 64, N. York, N.Y., Research Inst.

B-3,004,305

OKUSHKO, A. A.

"Agrometeorological Characteristics of Conditions for the Winterizing of Winter Crops in the Irrigation Territory of the Kuybyshev Hydro Development". Trudy Tsentr. in-ta Prognozov, No 29, pp 77-92, 1953.

The author establishes (a) the frequency of winters with mean decile temperature lower than minus 20° (which is taken as the criterion for unsatisfactory thermal conditions for winter crops) and (b) the temperature of the soil at the depth of branching of winter crops. For example, in the Bezenchuk region the frequency of such deciles amounts to 60% (pre-dominantly in January). The author compiles tables of minimum temperature of soil in the period 1942-1950 at six stations and the number of 5-day periods with temperatures less than minus 15°. The author also establishes a third item: (c) the mean depth of the snow cover and degree of coveredness of fields by snow for mean depths of snow of 5, 10, 20 and 30 cm. For example, for depth of 10 cm, 10% of the area remains completely without snow, and about 30% of the area is covered with snow with depth up to 6 cm and 20% is covered with snow 11 to 20 cm deep. The author concludes that only for mean depth of snow cover of 30 cm can one ensure favorable outcome of winterizing. He also considers the problem of the combination of low temperatures with little snow. (RZhGeol, No 11, 1955)

SO: Sum No 884, 9 Apr 1956

OKUSHKO, A. A.

Agricultural meteorological characteristics of wintering conditions of winter crops in the irrigated region of the Kuybyshev hydroelectric development. Trudy TSIP no.29:77-92 '55.

(MIRA 8:6)
(Kuybyshev Hydroelectric Power Station region--Crops and climate)

Country : USSR
Category: Cultivated Plants. Grains.

M

Abs Jour: RZhBiol., No 22, 1958, No 100215

Author : Okushko, A.A.
Inst : Central Forecasting Inst.
Title : Ice Crust and Wintering of Winter Crops on the
European Territory of USSR.

Orig Pub: Tr. Tsentr. in-ta prognozov, 1956, vyp. 53,
142-169.

Abstract: Data from the experiments with artificial ice
crust and observations at 110 hydro-meteorologi-
cal stations on natural ice crust during 1943-
1952. The ice crust - be it an interlayer in
the snow or a crust on the surface of the

Card : 1/2

Card : 2/2

OKUSHKO, A.A.

In the section of agricultural meteorology of the Lenin All-Union
Academy of Agricultural Sciences. Meteor. i gidrol. no. 8(72-7) Ag
'57. (MIRA 10:8)

(Meteorology, Agricultural)

OKUSHKO, A.A.

Ice crust and wintering of winter crops on the European territory
of the U.S.S.R. Trudy TSIP no. 53:142-169 '57. (MIRA 10:8)
(Crops and climate)

OKUSHKO, A.A.

Methods for snow surveys in fields meeting the requirements of the
agrometeorological service. Trudy TSIP no.98:74-86 '60.

(MIRA 13:11)

(Snow surveys) (Meteorology, Agricultural)

OKUSHKO, A.A.

Comparative evaluation of different methods used in determining
the viability of winter crops and perennial grasses in winter in
U.S.S.R. Trudy TSIP no.98:87-98 '60. (MIRA 13:11)
(Plants--Frost resistance) (Field crops)

GOL'TSBERG, I.A., doktor geogr. nauk; VERIGO, S.A., kand. sel'khoz. nauk; SINEL'SHCHIKOV, V.V., kand. sel'khoz. nauk; BORISO-
GLEBSKIY, G.I., kand. geogr. nauk; OKUSHKO, A.A., kand.
geogr. nauk; RUDNEV, V.M., kand. geogr. nauk; DAVITAYA, P.F.,
akademik, otv. red.; ZHDANCOVA, L.P., red.; ALEKSEYEV, A.G.,
tekhn. red.

[Evaluation of the agroclimatic conditions of farm lands] Otsen-
ka agroklimaticheskikh usloviy sel'skokhoziaistvennykh poley.
Leningrad, Gidrometeor.izd-vo, 1961. 75 p. (MIRA 15:2)

1. Akademiya nauk Gruzinskoy SSR (for Davitaya).
(Crops and climate)

OKUSHKO, A.A.; BORISOGLEBSKIY, G.I.

Theoretical basis for the technique of snow surveys in fields with
snow-retaining barriers. Trudy TSIP no.107;23-29 '61. (MIRA 14:5)
(Snow surveys)

OKUSHKO, N. (Simferopol'); ASTAF'YEV, V., inzh. (Minsk)

Machine measures and cuts fabrics. Mest.prom.i khud.promys. 1
no.2/3:45-46 N-D '60. (MIRA 34:4)

(Clothing industry--Equipment and supplies)

OKUSHKO, V.B.; 1947, U.S.S.R.

Upper Ordovician sediments of the southeastern Kara Sea.
Inv. All Tur. SSR. Ser. 100-1000, Min. i geol. nauk resp.:
100-100 100. (MIRA 17:8)

1. Yuga-Vostochnaya kakakunskaya okrugl'tsiya Upravleniya
geologii i khimiy near prof. S. S. Kuznetsov Dnepropetrovsk. SSR.

RAYEVSKIY, N. I.; OKUNKO, N. P.

Murgab Bay of the Caspian Sea. Izv. AN Turk. SSR. Ser. 100.-
tekh., khim. i geol. nauk no. 3: 74-80 1961 (MIRA 18:1)

1. Upravleniye geologii i zashchity nedr pri Sovetsko-Turkmen-
skoy SSR.

GAUSHEG, M.H., Captain

Chloroform's role as an ecological factor in the
of the. Truly 1918 (1928-30) '63. (M. 1. 1. 1.)

OKUSHKO, V.R.

Experimental correlation of hyperpyridoxinosis with atrophy of the alveolar process and disorder of mineral metabolism. Stomatologiya 42 no.3:19-23 Ny-Je'63 (MIRA 17:1)

1. Iz kafedry khirurgicheskoy stomatologii (zav. - chlen-korrespondent AMN SSSR prof. A.I.Yevdokimov) i kafedry patologicheskoy fiziologii (zav. - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) Moskovskogo meditsinskogo stomatologicheskogo instituta.

FAYNBERG, G.S., inzh.; SMELYANETS, S.G., inzh.; OKUSOK, A.A., inzh.

Planning power supply for mines and pits under construction.
Shakht.stroi. 8 no.1:5-9 Ja '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva.

CRIV 2 4

✓1892

ON THE POLARIZATION OF ELECTRONS DURING THE
DECAY OF POLARIZED μ -MESONS L. B. Okuy. Doklady
Akad. Nauk S.S.S.R. 104, 840-2(1955) Oct. 27. (In Russian)
Calculations were made to determine the constant Q_1
occurring in the equation describing μ -meson decay, by
measuring the spin correlations of μ -meson decay and the
electron escaping during the decay (R. V. J.)

1077 L

OKUJAVA, V. (Tbilisi, USSR)

"The influence of the polarization of the cortical surface
upon the dendritic potentials"

Report submitted to the 7th Intl. Congress of Neurology, Rome,
Italy, 10-15 Sep 61

OKY 55

110-5-1/22

AUTHORS: Petrov, G.N., Doctor of Technical Sciences, Professor,
Okyn', S.S., Candidate of Technical Sciences and
Krayz, B.L., Engineer.

TITLE: Smooth Contactless Voltage Regulation of Transformers Under Load (Plavnoye beskontaktnoye regulirovaniye napryazheniya transformatora pod nagruzkoy)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Vol.29, No.3, pp.1-8 (USSR)

ABSTRACT: Until now, smooth voltage regulation by means of transformers has not been satisfactorily achieved and published, theoretical work is incomplete. The authors, therefore, developed a more accurate theory for one such type of transformer, a schematic circuit diagram of which is given in Fig.1. The transformer has two cores, magnetically independent; both may receive auxiliary d.c. magnetisation from windings with different numbers of turns. The two parts of the d.c. magnetising winding are so connected that the total a.c. e.m.f. acting on the windings is zero. The primary and secondary windings on the two cores are in series and have different transformation ratios. Hence, if the primary voltage is maintained constant and the auxiliary magnetisation is varied, the output voltage is altered. The article examines the analytical relationships

Card1/4

Smooth Contactless Voltage Regulation of Transformers (Cont.) 110-3-1/22

that govern this process of voltage regulation. The main equations of the regulated transformer are first derived. A vector diagram is then constructed in Fig. 2 and discussed. When the secondary power-factor is other than unity, the vector diagram is constructed by first finding the relative orientation of the vectors of primary voltage and current. This may be done graphically and gives the vector diagram seen in Fig.3. The degree of regulation at no-load and the transformation ratios of the two transformers are related in Fig.4, and the relationship between the secondary voltage and auxiliary magnetisation is given for two cases in Fig.5. These equations and vector diagrams permit of an analysis of the working process of the transformer which is sufficiently accurate for practical purposes and explain the influence of the main parameters of the transformer on the limits of regulation.

Tests were made on a model regulated transformer to verify the main theoretical relationships established in the article. The two cores were represented by two identical core-type transformers having transformation ratios 1.6 and 3.2. The transformer voltage was regulated by d.c. magnetisation of the core;

Card2/4

Smooth Contactless Voltage Regulation (Cont.)

110-3-1/22

the power required was less than 1% of the power transformed. The tests under no-load conditions, the results of which are given in Fig.6, demonstrated the good regulation of the transformer. Regulation of the secondary voltage by d.c. auxiliary magnetisation can cause a great increase in the auxiliary magnetising current. To change the secondary voltage by 4%, the no-load current was increased by a factor of 4. Non-magnetic gaps in the magnetic circuits of the transformers are sometimes advisable to prevent the increase in magnetising current from saturating the cores. The external characteristic, the relationship between the secondary voltage and current at unity power-factor is plotted in Fig.7. Tests were made with and without auxiliary magnetisation. The load tests confirmed that if the transformer parameters are suitably chosen its external characteristic is reasonably flat and the limits of secondary voltage regulation are much the same both with and without load with unity power-factor on the secondary. The test data were used to construct vector diagrams both with and without auxiliary magnetisation, as in Fig.8. These diagrams qualitatively confirm the special features of secondary voltage regulation and the correctness of the vector diagram

Card3/4

Smooth Contactless Voltage Regulation (Cont.)

110-3-1/22

given in Fig.2. Some numerical deviation of the experimental vector diagram from the theoretical are due to magnetic losses in the cores and the presence of resistance and inductance in the primary and secondary windings, etc. A special feature of this method of voltage control is the possibility of generating higher harmonics in the voltage curves of both cores with sinusoidal primary voltage. However, if the degree of saturation of the cores is correctly chosen, this effect is small. By way of example, Fig. 9 gives secondary voltage oscillograms with auxiliary magnetisation. It is concluded that conditions will be most favourable to the use of these transformers when the degree of voltage regulation is not greater than 1.5:1. Although the article considers only the simplest regulated transformer, other arrangements, such as autotransformer connections, are possible. An advantage of this method of voltage regulation is its relatively high speed and also the possibility of easily making voltage control automatic. An appendix gives design procedure. There are 9 figures and 1 American, 1 German and

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Institute) ^{1. Russian reference.}
 SUBMITTED: October 14, 1957
 AVAILABLE: Library of Congress
 Card 4/4 1. Transformers 2. Voltage-Stablization 3. Mathematical analysis

KHALTURIN, K.D., arkhitekto; CHAYKO, I.M., arkhitekto; GOLUBEV, S.L.,
inzhener; DOBROKHOTOV, I.G., inzhener; KRUPITSA, K.K., inzhener;
POGORZHEL'SKIY, L.A., inzhener; POSTNIKOV, A.A., inzhener;
SHARYI, Yu.V., kandidat tekhnicheskikh nauk; ~~OL~~ A.A., professor,
doktor arkhitektury; URAY'YEV, B.V., kandidat arkhitektury;
VASIL'YEV, B.D., doktor tekhnicheskikh nauk professor, redaktor;
SHUR, N.Ya., redaktor izdatel'stva; ROZOV, L.K., tekhnicheskiy
redaktor

[Large-block construction in Leningrad] Krupnoblochnoe stroitel'stvo
v Leningrade. Leningrad, Gos.izd-vo lit-ry po stroit. i arkhit.,
1957. 93 p. (MLRA 10:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Leningradskiy
filial:

(Leningrad--Precast concrete construction)
(Leningrad--Apartment houses)

UL', A. I.

State Astronomical Observatory (-1943-)

"Solar Activity & Geomagnetic Perturbations,"

Iz. Ak. Nauk SSSR, Ser. Geograf. i Geofiz., No. 6, 1943

W.E.

Geophysical & Extraterrestrial Phenomena

1048
 541 5019 42172
 The Luminescence of the Night Sky and Cor-
 pular Solar Radiation. - A.I. (Zhurnal, 1947,
 No. 7, pp. 3-11. In Russian). The role of the
 corpuscular radiation from the sun in the excitation
 of the night sky luminescence is discussed under the
 following headings: (a) methods for studying the
 night sky luminescence; (b) spectral analysis of lum-
 inescence; (c) excitation mechanism of night
 sky brightness; (d) regular variations of the night
 sky brightness; and (e) irregular variations of
 brightness. It is concluded that this phenomenon
 consists of a background luminescence on which
 irregular variations of brightness are superimposed.
 The background luminescence is due to the ultra-
 violet radiation from the sun while the irregular
 variations are caused by streams of charged particles
 emitted by the sun.

1948

OL', A. I.

"Radio Emissions from the Sun," Priroda, No. 1, 1948.

PA5/49750

OL', A. I.

USSR/Geophysics
Solar Radiation
Magnetism, Terrestrial

Jul 48

"Geomagnetic Disturbances and Solar Activity," A. I.
OL', 8 pp

"Priroda" No 7

New data showing relationship between subject phenomena. Discusses the solid angle of corpuscular solar radiation, two types of magnetic storms, tests conducted to identify the so-called M-region, and studies on ionized calcium lines during magnetic storms.

5/49750

W. E.

Geophysical & Extraterrestrial
Phenomena

1972
Double Cycle of Solar Activity. A. I. ...
Additional
confirmation of the existence of the 22 year cycle of
solar activity suggested by M. S. Gerasimov & A. I.
of the Journal of Geophysical Research, Vol. 77, No. 11

1972

OL' A. I.

PA 9/49T58

USAR/Geophysics

Ionosphere

Magnetic Fields - Earth

Sep 48

"Relation of the Ionization of the F₂ Layer to the Earth's Magnetic Field," A. I. Ol', 2nd pp

"Priroda" No 9

Describes annual ionization cycle of F₂ layer. Discusses phenomenon known as "longitudinal effect". Compares ionization of F₂ layer at various points on earth's surface exposed to sun's rays.

9/49T58

Ol', A. I.

USSR/Physics
Sunspots
Solar Phenomena

Jan/Feb 1948

"The 22-year Cycle of Solar Activity," M. N. Gnevyshev, A. I. Ol', Pulkova Observatory,
Acad Sci, USSR, 3 pp

"Astr Zhur" Vol XXV, No 1

Discusses the change in polarity of sunspots, and the law of formation of the 22-year
cycle from the 11-year cycle.

PA 411103

OL', A. I.

"Geomagnetic Disturbances and Solar Activity (New Studies of their Correlation)"
Priroda Vol 37, No. 7, 1948, 3-10

Translation 563404

OL', A. I.

"Relation Between the Ionization of the F₂ layer and the Earth's Magnetic Field"

Priroda Vol. 37, No. 9, 1948, 50-52

Translation: 563463

PA 35/49T101

USSR/Physics
Astronomy
Solar Phenomena

Dec 48

"The Problem Concerning the 22-Year Cycle of Solar Activity," A. I. OI', Pulkovo Obs, Acad Sci USSR, 2 pp

"Dok Ak Nauk SSSR" Vol LXIII, No 6

Uses new factor or characteristic to check the coincidence between the even 11-year cycle and the odd 11-year cycle. This new characteristic T₁, the time of increase of the cycle, is the interval of ^{time between} the beginning of the cycle and the time of its maximum. Submitted by Acad S. I. Vavilov, 1 Nov 48.

35/49T101

OI', A. I.

Ol', A. I.

Ol', A. I. - "On the long-term prognosis of solar activity", Byulleten' Komissii po issledovaniyu Solntsa (Akad. nauk SSSR), No. 1, 1949, p. 17-22, - Bibliog: p. 22.

SO: U-4631, 16 Sept. 53, (Letopis 'nykh Statey, No. 24, 1949).

OL'A I.

Ol'a I. - "On the contours of the H and X lines of the solar spectrum during magnetic storms", Byulleten' Komissii po issledovaniyu Solntsa (Akad. nauk SSSR), No. 1, 1949, p. 23-24

SO: U-4631, 16 Sept. 53, (Letopis 'nykh Statey, No. 24, 1949).

OL', A. I.

35164. O Dolgorochnom Prognoze Bolnechnoy Aktivnosti Na Konets Tekushchego I Na
Sletsuyushchiy Ii-Letny Tsikl. Byulleten' Komissii Po Issledvaniyu Bolntsa
(Akad. Nauk SSSR), No. 2, 1949, s. 13-16

SO: Letopis' Zmurnal'nykh Staty, Vol. 48, Moskva, 1949

OL', A. I.

"Review of Pierre Augur's Book 'What are Cosmic Rays,'" No. 7, 1949.

Ol', A. I.

PA 67/4976

USSR/Astronomy - Solar Phenomena Aug 49
Sunspots

"Review of V. V. Sharanov's, The Sun and Observations of the Sun," A. I. Ol', 1 3/4 pp

"Priroda" No 8

Prof Sharanov's classification of sunspots is already widely known. This book is descriptive and instructive. Chapters V, VI and VII, describing the method of determining the coordinates and area of sunspots and instructions on the statistical study required for such determination, are particularly valuable. Its defects do not detract greatly from its value.

67/4976

OL', A. I.

"The Brightness of the Solar Corona," Priroda, No. 11, 1949.

OL', A. I.

"The Secular Behavior of the Magnetic Field and Terrestrial Seismism,"
Priroda, No. 12, 1949.

OL', A. I.

! x

OL' A. I. (Pulkov Observatory)

The twenty-two year cycle of solar activity.

Doklady Akademii Nauk, S.S.S.R.

63, 6, 1949, 629-30

From: B.N.L. Guide to R.-Scientific Per. Lit. No. 5, May 1949, p. 171

OL', A. I.

"Microseisms and Solar Activity," Priroda, No. 2, 1950.

OL', A.I.

Mar 50

USSR/Geophysics - Seismology

"The Structure of the Earth and the Physical Properties of Matter in the Terrestrial Depths," A. I. Ol',

"Priroda" No 3, pp 3-9

Studies the speeds of seismic waves (P and S), pressures, and densities within the earth as functions of distance from the center. Four regions within the earth are distinguished which cause discontinuities in the above graphs. Considers the relation between the thickness of the Earth's crust (H) and the vertical component of

219T64

the residual geomagnetic field (delta-Z). Also considers the elec cond (sigma) and temp (T) in the earth as functions of depth.

219T64

OL', A. I.

"The Largest Stone Meteorite, Priroda, Vol. 39, No. 4, 1950.

A. I. OL'

USSR/Geophysics - Northern Lights
Night Sky

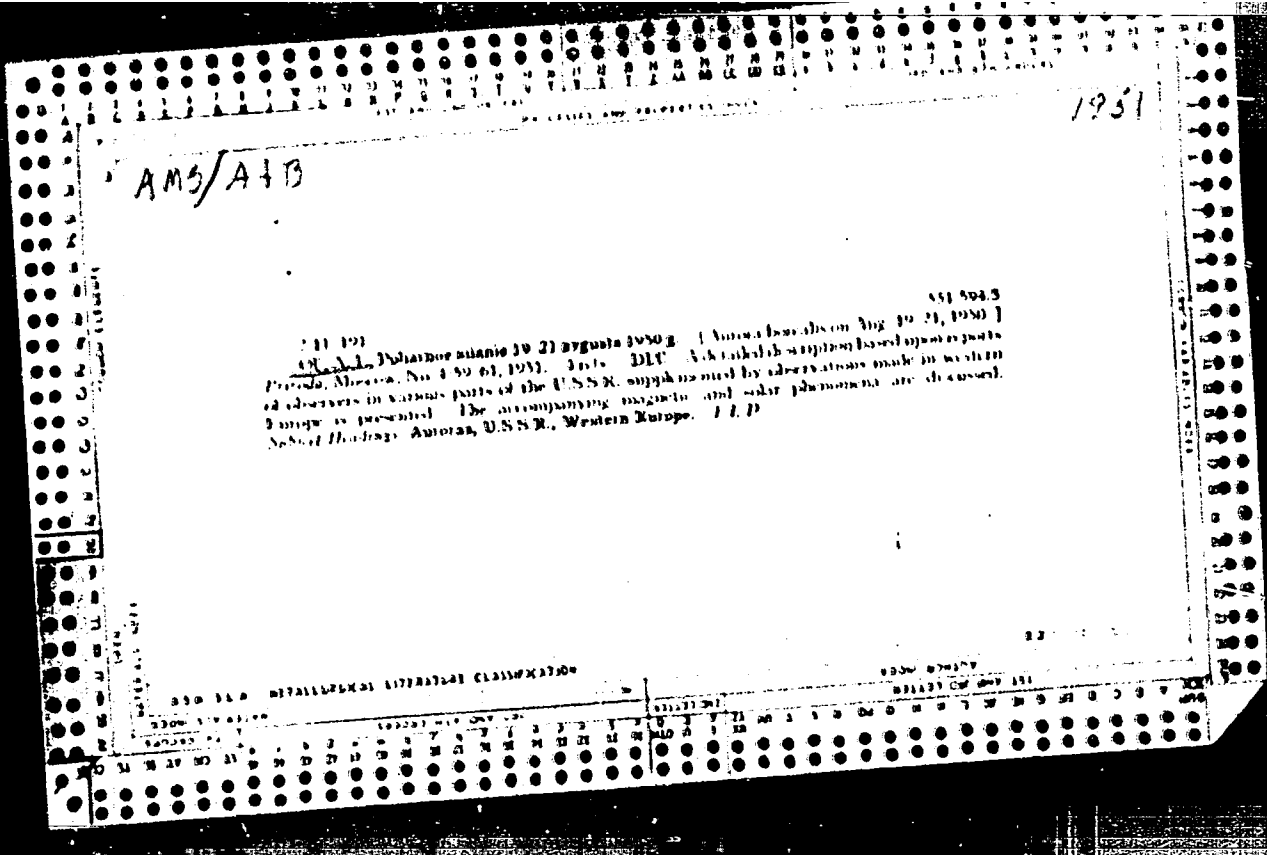
Sep 50

"New Investigations on the Northern Lights,"
A. I. OL'

"Priroda" No 9, pp 3-14

Discusses basic types, geographical distribution,
diurnal behavior, relation to magnetic excitation,
comparison with solar activity, height, spectrum,
and theory. Claims that Soviet scientists will
soon amalgamate the present 2 theories into one.

212775



OL, A. Y.

35 281 551.50.1.51 535.01

OL, A. I. Lini i doroda y spektr polimernykh silanif. Trudy nauchnoy konferentsii po fiziko-khimiicheskoy optike, Moscow, No. 16, 17, 1971, pp. 211-212.

The authors have investigated the infrared spectra which have been obtained in the course of the synthesis of silanif polymers. The results of the investigation are presented in the form of a graph showing the dependence of the optical density of the absorption bands on the wavelength of the light. It is shown that the absorption bands of the silanif polymers are shifted towards shorter wavelengths compared with the absorption bands of the corresponding silanif monomers. This is due to the fact that the silanif polymers are formed by the reaction of silanif monomers with each other, and the resulting polymers have a higher degree of polymerization than the monomers. The authors also note that the absorption bands of the silanif polymers are broader than those of the monomers, which is also due to the fact that the silanif polymers are formed by the reaction of silanif monomers with each other, and the resulting polymers have a higher degree of polymerization than the monomers.

OL', A. I.

Polyarnoye siyaniye 19-21 avgusta 1950 g. (Aurora Borealis on August 19-21, 1950).
Priroda, 1951, .v. 40, no. 4, p. 59-61, diagr., 4 refs.

Q4.P8 v. 40

Handwritten scribbles

7C-82
 CP ✓
 OT, A. I. Izmeneniya intenzivnosti kosmicheskikh luchey, svyazannyye s deistviem solntsa
 (Variations of cosmic ray intensity as a result of solar activity). Prilozheniya Moscow, 40
 48 32 1951. 3 pages. 100 copies. DLU. A technical report from the Institute for
 the study of cosmic rays, Academy of Sciences of the USSR. The report discusses
 and presents a hypothesis on the intensity of cosmic rays as a function of solar
 activity. Abstracts of cosmic ray intensity. Research in Geophysics
 effects of cosmic rays & Solar activity & USSR

Handwritten initials

Handwritten initials

OL, A. I., JR SCI ASSOC

USSR/Geophysics - Ultraviolet Solar Radiation May 52

New Data on the Ultraviolet Radiation of the Sun, A. I. Ol, Jr Sci Assoc, Library of Acad Sci USSR, Leningrad

"Priroda" Vol 41, No 5, pp 103-106

States that the solar radiation in the far ultraviolet region of the spectrum possesses great value for the clarification of a number of problems in the physics of the upper layers of the

230T62

atm, especially the theory of I. S. Shklovskiy concerning the E layer ("Iz Krymskoy Astrofiz Obser" Vol 4, 1949). Cites mainly works appearing in Phys Rev.

230T62

ZVEREV, M.S., redaktor; OL', A.I., redaktor; KIRNARSKAYA, A.A., tekhnicheskii redaktor

[Proceedings of the 11th Astrometrical Conference of the U.S.S.R., Pulkovo. May 24-26, 1954.] Trudy 11-i astronomicheskoi konferentsii SSSR; 24-26 maia 1954 g. Leningrad, Izd. Glav. astronomicheskoi observatorii v Pulkove, 1955. 269 p. (MLRA 9:2)

1. Vsesoyuznaya astrometricheskaya konferentsiya. 11th, Pulkovo, 1954. 2. Chlen-korrespondent AN SSSR (for Zverev). (Pulkovo--Astrometry--Congresses)

Ol', A. I.

"The Connection Between Solar Activity and Geomagnetic Disturbances."

The Physics of Solar Corpuscular Streams and their Influence on the Upper Atmosphere of the Earth, Moscow, Izdatel'stvo Akademii Nauk SSSR, 1957.

PART I PART CONTINUED

Biological, Atmospheric & Astronomical Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

Biological Observations of the Hawaiian Islands, 1909-1910, by W. H. Silliman, U.S. Geological Survey, Bulletin 100, 1911.

24/m/Jan 2-1-60

OL, A1

3.9000

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 4, p. 152, # 4054

82437
S/169/60/000/004/001/002
AC05/AC01

AUTHOR: OI', A.I.

TITLE: Variations in Cosmic-Ray Intensity During Magnetic Storms Having Sudden and Gradual Commencements

PERIODICAL: Solnechnyye iannye, 1959, No. 2, pp. 68-71

TEXT: The author shows that drops in the intensity of the meson component of cosmic rays on the average by 0.7% are caused by magnetic disturbances having sudden (Sc) commencement. The rate of drop increases with the intensity of magnetic disturbance. Magnetic disturbances with gradual (G) commencement do not show connection with variations in the meson intensity. A noticeable increase in neutron component intensity was detected during the magnetic storms of G type by observations of cosmic rays on the Heys island, the stations at mean latitudes on Zugspitze (FRG) and Berkeley (USA), whereas intensity drops took place as usually during the Sc storms. The same results were obtained on the Heys island and the Berkeley station for the meson component, but the amplitudes of drop and rise were much lower (of the order of a few tenths of a percent). Increases in cosmic radiation intensity connected with G-type storms originate 1-2 days before the

Card 1/2

82437

S/169/60/000/004/001/002
A005/A001

Variations in Cosmic-Ray Intensity During Magnetic Storms Having Sudden and Gradual Commencements

day of storm, whereas decreases in intensity set in 1-2 days after S_o type storms. The author utters the opinion that an increase in cosmic ray intensity is possible in consequence of the emission of high-energy particles by the Sun during relatively weak chromospheric flares. X

A.P. Kovalevskiy

Card 2/2

87235

S/035/60/000/011/010/010
A001/A001

3,1550(1057,1062,1129)
Translation from: Referativnyy zhurnal, *Astronomiya i Geodeziya*, 1960, No. 11,
p. 64, # 11368

AUTHOR: ~~Ol' A.I.~~

TITLE: On a Possible Periodicity of Solar Activity

PERIODICAL: *Solnechnyye dannyye*, 1959, No. 6, pp. 85-88

TEXT: On the basis of the analysis of Wolf numbers from 1700 to 1957, the author supports S. Newcomb's hypothesis that the development of solar activity follows a strong periodicity. He calculated correlation coefficients between the Δt -values (differences between the instants of commencement of any phase of the cycle) and $\sum W$, as well as $\sum W$ on the descending branch. Making use of some correlations, the author determines the epoch of minimum of cycle No. 20 to be 1965.2 and the epoch of maximum - 1970.0.

T.L.M.

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

Card 1/1

3,1810

9.9840

871,70

S/169/60/000/012/009/010

A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 12, p. 240, # 16417

AUTHOR: Ol', A. I.

TITLE: On the 11-yearly Cycle of Variations in the Number of Aurora Polaris

PERIODICAL: V sb.: Probl. Arktiki i Antarktiki. No. 2, Leningrad, "Morsk. transport", 1960, pp. 77-81

TEXT: The observations of aurora polaris in 1761-1874 (in the main in Scandinavia) were studied, which are listed in the catalogs of Fritz, Rubenson, and Tromkholt. When plotting the average 11-yearly cycle curve of aurora recurrence, it was detected that the 11-yearly cycles may be divided into two groups: the normal (the maximum of aurora recurrence agrees with the maximum of the Wolf numbers) and anomalous (a second maximum of aurora recurrence is observed, which falls in the fifth year after the maximum of the Wolf numbers). The anomalous 11-yearly cycles showed an interconnection with the peaks of the 90-yearly cycles of the solar activity. The study of the cyclic variations of the cloudiness and the number of aurora polaris according to the data from the Blue Hill Observatory (USA) from 1840-1888 showed that the cyclic variation of the cloudiness in normal

Card 1/2

87470

S/169/60/000/012/009/010
A005/A001

f

On the 11-yearly Cycles of Variations in the Number of Aurora Polaris

cycles is generally absent, but in the anomalous cycles appears even the tendency to increased cloudiness near the minimum of the 11-yearly cycles. Therefore, the observed anomalous behavior of the aurora recurrence in some 11-yearly cycles cannot be connected with the corresponding variations of cloudiness. The assumption is expressed that auroras observed at the end of anomalous cycles pertain to red auroras of the B type. It is known that their recurrence has a maximum near the minimum of the 11-yearly cycles of the solar activity, and that the energy of the solar corpuscles causing these auroras is relatively high. - There are 15 references.

A. I. Ol'

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

Card 2/2

3.2410

S/169/61/000/012/078/089
D228/D305

AUTHOR:

Zhukovskaya, N. A., and Ol', A. I.

TITLE:

Change in the amplitude of the diurnal variation of the cosmic-ray intensity in relation to the magnetic activity

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1960, 10, abstract 12G57 (v sb. Variatsii kosmich. luchey i solnechn. korpuskulyarn. potoki. no. 2. M., AN SSSR, 1960, 101-104)

TEXT:

The dependence of the amplitude of the diurnal variation of cosmic rays on the magnitude of K--the index of geomagnetic activity during the solar activity maximum (1957)--is established. The data were divided into 5 groups depending on the magnitude of the diurnal sum of the K-indices--ΣKp. It is shown that the amplitude of the diurnal variation increases

Card 1/2

Change in the amplitude...

S/169/61/000/012/078/089
D228/D305

with the growth of ΣKp to 19 - 23, and that it then sharply decreases at values of $\Sigma Kp = 24 \div 33$. A further increase in in the amplitude is observed at $\Sigma Kp = 34$. An analogous relationship is also detected for the period of the solar activity minimum (1954). Subsequent analysis disclosed that the mean-daily intensity values for days with $\Sigma Kp = 24 \div 33$ show no anomalous behavior. The possible causes of the detected effect are discussed. [Abstracter's note: Complete translation.]

✓
B

Card 2/2

33072

S/169/61/000/012/081/089
D228/D305

3.2410 (2205, 2705, 2805)
AUTHOR: Ol', A. I.

TITLE: Change in the intensity of cosmic rays at the
time of magnetic storms with sudden and gradual
outbreaks

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1961,
10, abstract 12G60 (V sb. Variatsii kosmich.
luchey i solnechn. korpuskulyarn. potoki. no.
2. M., AN SSSR, 1960, 131-136)

TEXT: The difference in the variations of the intensity of
the rigid component of cosmic rays at the time of geomagnetic
storms with sudden and gradual outbreaks is studied from data
recorded at several points in 1937-1946. A positive correlation
has been found between the amplitude of the intensity reduction
and its duration. The magnetic activity increases markedly on

Card 1/3

33072

S/169/61/000/012/081/089
D228/D305

Change in the intensity...

with gradual outbreaks. [Abstracter's note: Complete trans-
lation.]

+

Card 3/3

S/169/61/000/012/082/089
D228/D305

AUTHORS: Ol', A. I., and Tyasto, M. I.

TITLE: The relation of the intensity of cosmic rays
to the magnetic activity and radio-emission
of the sun

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1961,
11, abstract 12G62 (V sb. Variatsii kosmich.
luchey i solnechn. korpuskulyarn. potoki. no.
2. M., AN SSSR, 1960, 142-145) ✓

TEXT: It has been shown that an abrupt growth in the geomag-
netic activity is observed on days with a high level of solar
radio-emission coinciding with the reduction in the cosmic-ray
intensity. The radio-emission maxima related to the growth of
the cosmic-ray intensity are accompanied by reduction of the geo-
magnetic activity. [Abstracter's note: Complete translation.]

Card 1/1

3,9110 (112, 1482)

29885
S/169/61/000/009/048/038
D228/D304

AUTHOR: Ol', A. I.

TITLE: Synoptic maps of magnetic disturbances in the Arctic

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1981, 25,
abstract 9G207 (Geomagnitn. vozmushcheniya, no. 4, M.,
AN SSSR, 1980, 22-29)

TEXT: Synoptic maps of magnetic disturbances for 1957 - 1958 (maps of r_H^Y -- the hourly values of the amplitude of the geomagnetic field's horizontal component) were constructed from the data of Soviet high-latitude observatories and drifting stations. Two-hourly maps for 1957 and examples of successive hourly maps for individual disturbances are given. Considerable variations were discovered in the distribution of disturbances according to world time. This distribution is characterized by the presence of individual disturbance foci. The disturbance distribution more often changes haphazardly from hour to hour, but sometimes the disturbance

Card 1/2