S/169/62/000/004/010/103 D228/D302

AUTHOR: Gaynanov, A. G.

TITLE: Gravimetric determinations aboard the diesel-electric vessel "Ob!" on the first Antarctic voyage

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 4, 1962, 18, abstract 4A138 (V sb. Morsk. gravimetr. issledovaniya, no. 1, M., Mosk. un-t, 1961, 23.36)

TEXT: Gravity measurements were made with two triple-pendulum instruments (Cambridge and "Askania-Werke") in order to test new apparatus and clarify the conditions and possibilities of undertaking marine gravimetric observations. Before the beginning of the voyage the pendulum instruments were overhauled and fitted with gradient and vertical-acceleration recording blocks. Five marine chronometers and a device for checking the NAY - 4 (PPCh-4) watch were used as time emitters. The instruments are described. The "Askania-Werke" pendulum instrument with invar pendulums was was placed in a Helmholtz coil. The original and the final observations were carried out in Moscow, the control observations be-Card 1/2

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Gravimetric determinations aboard ... D228/D302

ing made in the ports of Leningrad, Capetown, Wellington and Adelaide, as well as at many points with a known gravity value. Data on the gravity field of the coastal zone of Antarctica's Indian sector were obtained for the first time; the Buguer anomalies were defined with a mean square error of from ± 8 to ± 9 milligals. The undertaken tests showed that on account of the strong engine vibrations it is only possible to carry out satisfactory pendulum observations on the diesel-electric vessel "Ob'" at stations. / Abstracter's note: Complete translation. /

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s/169/62/000/004/014/103 D228/D302

Zommer, I. E. and Gaynanov, A. G. AUTHORS:

Methods and results of gravity determinations in Ant-TITLE: arctica

Referativnyy zhurnal, Geofizika, no. 4, 1962, 19, ab-PERIODICAL: stract 4A143 (V sb. Morsk. gravimetr. issledovaniya, no. 1, M., Mosk. un-t, 1961, 63-68)

TEXT: Gravity measurements with a four-pendulum instrument, of the  $\Gamma_{AML}(GAISh)$  design with bronze pendulums, were carried out along the coast of Antarctica. The pendulum observation points were used as the original ones for a survey with FAK-3N(GAK-3M) gravimeter, transported in an AH-L(AN-2) aircraft and a helicopter. The pendulum gravity determinations are estimated to have a mean square error of + 2.0 milligals. The gravity anomalies, defined by gravimeter at points located on the pack ice, are estimated to have an error of + 3.2 milligals; the error at points, situated on the land \_ ice, is from + 10 to + 15 milligals. The characteristic peculiari-

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Methods and results ...

S/169/62/000/004/014/103 D228/D301

ties of gravimetric determinations, made with pendulums and gravimeters under conditions of large diurnal temperature changes (up to  $30 - 40^{\circ}$ C) and ice-sheet movements of Antarctica, are described. A table is given for the physical properties (density and coefficient of magnetic susceptibility) of 10 Antarctic rock specimens. On the grounds of the gravity field's character the authors note the considerable deviations of the plumb-line. They point out that it is expedient to use the gravimetric method for determining the thickness of the ice-sheet over the continental bedrocks. (Abstracter's note: Complete translation. 7



S/035/62/000/003/046/053 A001/A101

Gravimetric investigations ...

voyage. Quartz-metallic pendulums (6 main and 3 reserve ones), quartz clock of the Aerogravimetric laboratory at the Institute of Physics of Earth, AS USSR, (RZhAstr, 1960, no. 6, 5766) were used. A suspended magnetometer M-8 was employed to check the variations of magnetic field. The authors note the stabi lity of regulating the optical system of the pendulum instrument, the good quality of the Cardan joint, stability of quartz clock running, and small changes in the length of the pendulums. In view of a strong magnetic influence of the damper in the accelerometer unit on the periods of quartz-metallic pendulums (see 30221), magnetic damping was replaced by the air damping in the very beginning of the work. The authors describe the actermination of the constants of the instrument, the program of initial and marine observations, methods of processing observations and calculating corrections. The accuracy of determination of Fay and Bouguer anomalies from pendulum observations is estimated by errors of  $\pm 6 - 7$  mgal. The design principle of gravimeter with strongly damped elastic system proposed by Veselov (RZnAstr, 1957, no. 6, 5172) is described, as well as the design of the quartz system with horizontal filament and pendulum in a position near the horizontal one, proposed by Smirnov. The quartz system is placed into a liquid whose density and viscosity are so selected that it could serve simultaneously as the thermocompensator of the quartz system

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Gravimetric investigations ...

and a damping medium. Moreover, a thin quartz plate is fastened to the pendulum for damping, whose movement is restricted by a narrow gap between two fixed metallic plates. Fundamentals of the motion theory of such a damped pendulum are expounded for the case of existence of alternate, in sign, perturbing vertical accelerations. The design of marine gravimeters with ordinary and double quartz system is described, as well as methods and results of determining their constants, methods of measuring and processing photographic records, two methods of stabilizing horizontal position of gravimeter by means of Cardan joint and gyrostabilized platform, and the design of the latter. The marine gravimeter with ordinary quartz system was mounted in a Cardan joint, and the gravimeter with the double quartz system - on the gyrostabilized platform. Measurement results were discordant, both between gravimeters and pendulums. Insufficient damping of oscillations of the pendulum quartz system at large vertical accelerations is supposed to be the main cause of discrepancies. Amplitudes of residual effect of vertical accelerations ranged from a few tens to 600 mgal. Mean amplitude values in adjacent portions of the records differ by 100 - 150 mgal. The authors note necessity of a further improvement of the gravimeter, its adjustment to observational conditions on an above-water ship, studying the

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S/035/62/000/003/048/053 A001/4101

AUTHORS: Kuzivanov, V. A., Gavnanov, A. G.

TITLE: On measuring magnetic field while carrying out marine pendulum observations

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 3, 1962, 32, abstract 3G221 (V sb. "Morsk. gravimetr. issledovaniya", no. 1, Moscow, Mosk. un-t, 1961, 109-111)

TEXT: It was discovered at the starting point of the marine gravimetric expedition of GAISh (see 3G219) in 1957 that, in observations with a marine six-pendulum instrument, the unit of accelerometers with strong magnetic dampers creates magnetic fields up to 10 oe near the invar heads of the TsNIIGAiK quartzmetallic pendulums. This led to a change in the oscillation period of sèveral TsNIIGAiK quartz-metallic pendulums up to 110 x  $10^{-7}$  sec ( $\sim 45$  mgal). It is necessary to determine admissible strengths of magnetic field while using these pendulums, and in the field observations with pendulum instruments to observe that the magnetic field should not exceed admissible limits. A device widely used in practice of magnetometric studies is recommended for approximate

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GAYNANOV, A.G.; SMIRNOV, L.P.

Crustal structure in the transition area from the Asiatic continent to the Pacific. Sov.gcol. 5 no.3:108-118 Mr 162. (MIRA 15:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova i Vsesoyuznyy nauchno-issledovatel'skiy institut razvedochnoy gecfiziki. (Soviet Far East-Earth-Surface)

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SOURCE: Ref. zh. Geofizika, Abs.	S/0169/64/000/008/0005/0005 8017
AUTHOR: <u>Gaynanov, A. G.</u> TITLE: Some results of <u>gravimetr</u> Kurila-Kamchatka trench and adjac	ic investigations in the Sea of Okhotsk, the ent parts of the Pacific Ocean
CITED SOURCE: Sb. Morsk. gravimet	tr. issledovaniya. Vy*p. 2. M., Mosk, un-t, 1963,
- voicanism, pendulum gravimeter, or	ric survey, earth crust, island arc, seismicity, ravimeter, sea gravimeter, damped gravimeter, ontinuity, deep seismic sounding, airborne magne- tectonics
of the earth's crust in the transi Pacific Ocean in the zone of devel intense seismicity and volcanisme	in integrated seismic, aeromagnetic and gravimetric elof clarifying the character of the structure ition zone from the Asiatic continent to the opment of a recent geosyncline, island arcs, The gravimetric measurements were made using lamped gravimeters. The accuracy of determination
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of gravity anomalies in the Bouguer reduction ( $\sigma = 2.67 \text{ g/cm}^3$ ) in sectors with small gradients was + 6-8 mgal and in sectors with large gradients was + 15-20 mgal. The data from these investigations were used to complie a schematic map of the relief of the Mohorovicic discontinuity. It was found that the accuracy of determination of the thickness of the earth's crust to the Mohorovicic discontinu-Ity on the basis of gravimetric data is influenced by the variation in Bouguer anomalies depending on the thickness of sedimentary deposits and their density. The paper includes an analysis and computation of the change of density of sedimentary rocks with depth. As a result, it was established that at depths of the order of 10 km there is no difference in densities between compacted sedimentary deposits and granite rocks. The upper 4-km layer of sedimentary rocks exerts the maximum influence on the Bouguer anomaly. The collected data on the influence of the sedimentary layer were taken into account in determinations of the thickness of the earth's crust. The computations of the latter were made by three methods: standard columns of the earth's crust; the R. M. Demenitskaya method; and the Tsuboi-Tomada-Aki method. The basis of all three methods is described. This made it possible to compile a schematic map of the relief of the Mohorovicic discontimulty; the isobath interval is 3 km. There is a description of the influence of various factors on the accuracy of determination of the Mohorovicic discon-timulty on the basis of gravimetric data. It has been established that the princi-pal error in the latter is associated with the complexity of the structure of the ··· 2/3

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studied area of the earth's crust. In the region of the Okhotskiy platform the thickness of the earth's crust is 25-30 km. In the southern basin of the Sea of Okhotsk, in the central parts of the Kurlle Island arc and in the little Kurll'skiy Ridge the thickness of the earth's crust decreases to 15-18 km. The northern and southern groups of the Kurlle Islands are characterized by an increase in the thickness of the earth's crust to 20-27 km, while to the south of Petropavlovsk-Kamchatskiy the latter is 30 km. The comparison of gravimetric data with deep seismic sounding and airborne magnetometer surveys made it possible to detect the boundaries between the sedimentary and crystalline rocks and between the "granite" and "basalt" layers and detect zones of faults and the occurrence of thick extrusive strata, as well as determine the tectonic patterns for the Kurlle Island arc. S. Zhitnikova

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AUTHOR:	Soloviyev, 0. N. and Gaynanov, A. G.	
TIT <u>LE</u> :	Features of the deep-seated geological structures of the transitional zone from the asiatic continent to the pacific ocean in the region of the kurile-kamchatka island arc	
PERIODICAL:	Sovetskaya geologiya, no. 3, March 1963, pages 113-123	
Participating Physics of th razvedochnoi physics), Gos Astronomic In Faculty of Mon of Fhysics of	ticle deals with a complex and intensive geological and geophysical Kurile-Kamchatka region in connection with International Geophysical ations were made by seismic, gravimetric and magnetometric methods. agencies were Institut fiziki zemli Akademii nauk USSR (Institute of e Earth, AS, USSR), Vsesoyuzniy nauchno-issledovatel'skiy institut geofiziki (All-Union Scientific Research Institute of Exploratory Geo- stitute im. P. K. Sternberg), Geologicheskiy fakul'tet MGU (Geological the Earth.	
	erable bibliography (21 articles) mainly by researchers of named	

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Features of the deep-seated ....

organizations is included. One U.S. source is cited since results in similar structural areas are compared: Mason, R. B. and Raff, A. D. "Magnetic Survey of the West Coast of N. America", <u>Bull. Geol. Soc. of Amer.</u>, v. 72, No. 8, 1961.

Purpose of the study is clarification of characteristics of the earth's crust in the region. By seismic methods, three types of earth crust were determined to exist in the region: 1. Three layered continental type, consisting of sedimentary, granitic and basaltic layers, averaging 20-30 km; near Sakhalin, Kamchatka, Northern Kuriles and also between southern islands of the arc and the deep water basins. This continental type, characterized chiefly by its granitic layer, is typical of the northern and central parts of the Sea of Okhotsk. 2. Oceanic type crust, consisting of a thin sedimentary layer (up to 1 km) and basalt (5-12 km), and having an average thickness of 10-17 km, including 5 km of water. This is observed beyond the Kurile-Kamchatka deep water trough, in the region of the ocean plateau. 3. The intermediate zone, differing from the continental by the absence of a granitic layer, and from the oceanic by its significantly thicker sedimentary layer. Comparing these findings with those obtained by use of magnetometer surveys, discrepancies were found to exist. Several theories are postulated as to reasons for this, and it is concluded that further research, based on seismic, gravimetric and magnetometric methods, is

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	he deep-seated	1/000/003/001/002
	r surveys, as well as more intensive study of av rder to clarify the deep structures of the compl	
ASSOCIATION:	Vsesoyuznyy nauchno-issledovatelskiy institut r (All-Union Scientific Research Institute of Exp and Moskovskiy gosudarstvennyy universitet im. (Moscow State University im. M. V. Lomonosov)	loratory Geophysics)

GAYNANOV, A.G.; SOLOV'YEV, O.N.

Nature of magnetic anomalies in the area of transition from the Asiatic continent to the Pacific Ocean. Dokl. AN SSSR 151 no.6: 1399-1401 Ag '63. (MIRA 16:10)

I REFER TO SECTION A

1. Predstavleno akademikom D.I.Shcherbakovym.

APPROVED FOR RELEASE: 07/19/2001

I. 12454-65 EWT(1)/FCC/EEC(2) Po-4/Pi-4 R4EM(2) ACCESSION NR: AP4048356	GN S/0215/64/000/010/0122/0128
AUTHOR: <u>Gaynanov, A. G.</u> TITLE: The nature of <u>magnetic anomalies</u> along transit:	mal rongs of the Pasific
Ocean SOURCE: Sovetskaya geologiya, no. 10, 1964, 122-128	
TOPIC TAGS: geomagnetic field, <u>ocean</u> , Moho discontinu ABSTRACT: The author compares the topographic character	

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the second se	that the anomaly in the oceanic segment is due to inhomogeneities in the upper mantle. Depths to the upper edge have been computed to be 1-4 km, to the lower edge 6-9 km. The author considers the anomalies to be due to volcanic rocks of different thicknesses and ages. Computations for the Aleutian zone indicate the upper edge to be 14-24 km, the lower edge 48-60 km in the deepwater basin, 4-14 km and 17-26 km along the island ridge, and 3-9 km and 15-25 km in the Bering Sea. Basalts from drill holes at Guadalupe Island have susceptibilities ranging from $40 \cdot 10^{-6}$ to $1170 \cdot 10^{-6}$ cm g sec. The direction of the remanent field is reverse. The author concludes that the cause of the magnetic anomalies in the transitional zones of the Pacific Ocean is chiefly thermoremanent magnetism of bodies, produced during cooling in the earth's field. The variations in field may be due to variations in position of the Mohorovicio discontinuity in passing from the continents to the ocean basin. Magnetic anomalies in the ocean basin may be due to sources in the "basaltic" layer or even in the "peridotitic" layer. Orig. art. has: 5 figures. ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lemonosova (Moscow	
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L 13848-66 ENT(1) GW	
ACC NR: AR6000807 SOURCE CODE: UR/0169/65/000/009/G004/G005	
SOURCE: Ref. zh. Geofizika, Abs. 9G27	
AUTHOR: <u>Gaynanov, A. G.</u> TITLE: Some peculiarities in the structure of the earth is exactly a structu	
TITLE: Some peculiarities in the structure of the earth's crust in transition zones of the Pacific Ocean according to geophysical data	
CITED SOURCE: Sb. Geofiz. issledovaniya. No. 1. M., Mosk. un-t, 1964, 228-241	
TOPIC TAGS: geophysics, magnetic anomaly, gravitational field	
TRANSLATION: A brief general survey of the results of Soviet and foreign geophysi- cal studies made in the Pacific Ocean. A general conclusion is drawn that the boun- dary regions of the ocean, which are transitional zones to the continental regions, are characterized by anomalous geophysical fields (gravitational, magnetic) associ- ated with the structure not only of the earth's crust, but also of the upper mantle.	
This is shown by gravitational anomalies as the difference between the actual values and those theoretically calculated for deep seismic sounding profiles assuming a constant density within the layers of the earth's crust and the subcrustal layers.	
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ACCESSION NR:	AP4046375	S/0020/64	/158/003/0594/0597	8
AUTHOR: Gayn	anov, A. G.; Ushakov.	<u>S. A.</u>		1 B
Depression	y and plutonic structure I the Pacific Ocean in th SR. Doklady*, v. 158,	e region of the C	hishima-Kamchatka	Asiatic i
ABSTRACT: Red	arth crust, isostatic de cent investigations have y (W. A. Heiskanen and Y 1958) The present	disclosed that the the the the the the the the the th	ie earth crust has a leinst The Forth o	consi-
in which the pres H is the depth of is valid for H410	Y. 1958). The present the method suggested sure $P = \frac{7}{7}G_{c}H_{i} = constthe compensating surfa0 km. The method wasAsiatic continent-Pacing$	by Lyustikh, Tr. ., where $\sigma_i$ is th .ce, n-number of applied to the si	Geofiz. inst. 38, 2 le density of the i-la layers. This expre-	2 (1957) ayer, ession
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	ACCESSION NR: AP4046375
	Kamchatka depression. Orig. art. has: 1 figure
	ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)
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<u>L 21427-66 EVT(1)/FCC/EWA(h)</u> GW	
ACC NR: AT6010298 SOURCE CODE: UR/3195/65/000/006/0060/00	65
AUTHOR: Gaynanov, A. G.; Tulina, Yu. V.; Kosminskaya, I. P.; Zverev, S. M.; Veytsman, P. S.; Solov'yev, O. N.	4
ORG: none	
TITLE: Comprehensive interpretation of data from geophysical observations in the Sea of Okhotsk and the Kurile-Kamchatka zone of the Pacific Ocean $\frac{1}{12}$	
SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. Seysmicheskiye issledovaniya, nc. 6, 1965, 60-65	
TOPIC TAGS: seismology, gravimetry, geomagnetism, deep seismic sounding, geophysic anomaly, transition zone	al
ABSTRACT: Data on the earth's crust acquired during the <u>IGY</u> from geological and geophysical studies (by <u>magnetic</u> , <u>gravimetric</u> , <u>and seismic methods</u> ) in the transi- tional zone between Asia and the Pacific Ocean were used to investigate two problem 1) qualitative comparison of special features of anomalous gravitational and magnet fields with structures of the earth's crust determined by seismic data (deep seismi	10
sounding); and 2) some results from a quantitative comparison of gravitational and magnetic anomalies with deep seismic-sounding data. A map of magnetic anomalies shows moderate isometric anomalies in the Sea of Okhotsk and pronounced anomalies	
in narrow belts in the Sea of Okhotsk, along the Kurile-Kamchatka ridge and adjacen	t
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parts of the Pacific, and near the Komanderskive Islands. The sources of magnetic anomalies in the North Okhotsk and Sakhalin depressions seem to be confined to the uppermost or lowermost portions of the "granitic" layer and the upper part of the "basaltic" layer. In areas in the Pacific off the Kurile Islands, the anomalies are in the uppermost part of the mantle, and east of the deep offshore trench, they are in the upper mantle and the "basaltic" layer. It can be assumed that these magnetic anomalies are caused by processes associated with the formation of discontinuities and lava intrusions from the upper mantle onto the ocean floor. Comparisons of the anomalous gravitational field with deep seismic-sounding data showed that the principal features of the field coincide with the structures in the crust indicated by the sounding data thus making it possible to identify regions of anomalous density. Orig. art. has: 4 figures. SUB CODE: 08/ SUBM DATE: none/ ATD PRESS:  $\mu 2.21$ 

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### CIA-RDP86-00513R000514520018-5

<u>L 7977-66</u> EWT(1) GW ACC NR: AP5026536 SOURCE CODE: UR/0286/65/000/019/0079/0080 AUTHORS: Veselov, K. Ye.; Gaynanov, A. G.; Luginets, A. P.; Smirnov, L. P.; Shelkovnikov. G. I. 44,55 44,55 44,55 44,55 44,55 ORG: none GW1 TITLE: Gravimeter for measuring the force of gravity in motion. Class 42, No. 175257 / announced by All-Union Scientific Research Institute of Geophysical Recon-naissance Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki) SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 79-80 TOPIC TAGS: gravimeter, gravimetry, gravitation ABSTRACT: This Author Certificate presents a gravimeter for measuring the force of gravity while in motion. The gravimeter is provided with an automatic compensating system (see Fig. 1). It includes an elastic sensitive system, photoelectric converter of angular displacements, filter, amplifier, electric motor, reducer, and measuring potentiometer. To increase the accuracy of continuous measurements of the gravity force, the quartz sensitive system of the gravimeter Card 1/2 UDC: 550.831

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-	<u>1 5214-66</u> EWT(1) GW	tinani misto	
	ACC NR: AP5021211 SOURCE CODE: UR/0213/65/005/004/0684/0691		
	AUTHOR: Stroyev, P.A.; Gaynanov, A.G.		•
	ORG: <u>Moscow State University im. M. V. Lomonosov</u> (Moskovskiy gosudarstvennyy universitet) 44.55		•
	TITLE: The structure of the Earth's crust in the Indian Ocean from geophysical investi- gation data $\frac{12}{12}$ , $\frac{14}{5}$ , $\frac{12}{5}$		
	SOURCE: Okeanologiya, v. 5, no. 4, 1965, 684-691		
	TOPIC TAGS: ocean floor topography, oceanographic expedition, gravimetric analysis, earth crust/Indian Ocean		
and and a set of the s	ABSTRACT: The structure of the Earth's crust under the Indian Ocean is not well known The present article: 1) gives a comprehensive survey, with 29 references, of geophysica research carried out in the Indian Ocean from the first studies of Vening-Meiness in 192 to the present; 2) presents a comprehensive discussion of the newest results obtained during the IGY by British, US, and Soviet expeditions; 3) establishes, on the basis of these recent data, the Capetown-Queen Maud Land and Ceylon-Shackelton Ice Shelf pro- files; and 4) presents the graphs showing the Fay and Bouguer anomalies as function of	1	
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the Indian (	Ocean depths	. Orig.	art. has: 2 formulas and 2	l figures.			
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ACC NRI AP6035596 AUTHOR: <u>Gaynanov, A. G.</u> ORG: Geology Department, <u>Moscov State University</u> (Geologicheskiy 27 fakul'tet Moskovskiy gosudarstvennyy universitet) TITLE: Density inhomogeneity of the upper mantle SOURCE: AN SSSR. Isvestiya. Fizika Zemli, no. 10, 30-39 TOPIC TAGS: upper mantle, seismic modeling, earth crust, gravity anomaly, earth density measurement
ORG: Geology Department, Moscow State University (Geologicheskiy 27 fakul'tet Moskovskiy gosudarstvennyy universitet) TITLE: Density inhomogeneity of the upper mantle SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 10, 30-39 TOPIC TAGS: upper mantle, seismic modeling, earth crust, gravity anomaly, earth density measurement
ORG: Geology Department, <u>Moscov State University</u> (Geologicheskiy 27 fakul'tet Moskovskiy gosudarstvennyy universitet) TITLE: Density inhomogeneity of the upper mantle SOURCE: AN SSSR. Isvestiya. Fizika Zemli, no. 10, 30-39 TOPIC TAGS: upper mantle, seismic modeling, earth crust, gravity anomaly, earth density measurement
TITLE: Density inhomogeneity of the upper mantle SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 10, 30-39 TOPIC TAGS: upper mantle, seismic modeling, earth crust, gravity anomaly, earth density measurement
TOPIC TAGS: upper mantle, seismic modeling, earth crust, gravity anomaly, earth density measurement
anomaly, earth density measurement
12
ABSTRACT: Investigations of the correlation dependence of gravity anomalies on the thickness of the Earth's crust, carried out on various models of a single-layer and double-layer crust, have shown that com- putations of the density difference between layers of the Earth's crust and the upper mantle using the formula for attraction of an infinitely plane-parallel layer considerably underestimate the true difference in density. Comparison of correlations between crustal thicknesses, as determined from seismic data, and gravity anomalies for different regions with correlations computed for models of the Earth's crust re-
veal the density inhomogeneity of the upper mantle. This inhomogeneity is most evident in the transition sones from continents to oceans. To
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ACC NRI AP6035596

compute the effect of gravity, a model of the Earth's crust 120 km in radius with an uplift of 15 km for cases with apexes located at depths of 15, 30, 45, and 60 km was selected. Computations were made on the "Strela" computer programmed by O. K. Litvinenko and V. R. Melekhova of Moscov State University for 18 different models of the Earth's crust For the first three groups of models, the Earth's crust is assumed to be a single layer or a double layer with the following density differences in subcrustal and crustal matter: 1) 3.4-2.7 = 0.7 g/cm<sup>3</sup>, 2) 3.3-2.8 = 0.5 g/cm<sup>3</sup>, and 3) 3.2-2.9 = 0.3 g/cm<sup>3</sup>. It is recommended that in future investigations gravity and seismic data be combined with data obtained by artificial satellites so as to provide an even better picture of the horizontal density inhomogeneity of the upper mantle. Orig. art. has: 4 figures and 3 formulas.

SUB CODE: 08/ SUBM DATE: 25Mar66/ ORIG REF: 018/ OTH REF: 009/ ATD PRESS: 5103

DRG: none TITLE: <u>Gravimeter for measurement of gravity</u> during motion. Class 42, No. 187337 (announced by the All-Union Scientific Research Institute of Prospecting Geophysical <u>Methods</u> (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 131 TOPIC TAGS: gravimetry, gravimeter, geodetic instrument, surveying instrument ABSTRACT: An Author Certificate has been issued for a <u>gravimeter</u> for the measure- ment of gravity during, motion. The device consists of a gravimeter with double optical-mechanical damping and two flexible quartz sensitive systems on a single armature immersed in a damping fluid. To increase measurement accuracy and work productivity, the flexible sensitive systems have equal products of time constants for each system on the scale division. SUB CODE: 08/ SUBM DATE: 23Apr65/ ATD PRFSS: 5106	ACC NR: AP6035896 S0	URCE CODE: UR/0413/66/000/020/0131/0131	
TITLE: <u>Gravimeter for measurement of gravity</u> during motion. <u>Class 42</u> , No. 187337 [announced by the All-Union Scientific Research Institute of <u>Prospecting Geophysical</u> <u>Methods</u> (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyve znaki, no. 20, 1966. 131 TOPIC TAGS: gravimetry, gravimeter, geodetic instrument, surveying instrument ABSTRACT: An Author Certificate has been issued for a <u>gravimeter</u> for the measure- ment of gravity during, motion. The device consists of a gravimeter with double optical-mechanical damping and two flexible quartz sensitive systems on a single armature immersed in a damping fluid. To increase measurement accuracy and work productivity, the flexible sensitive systems have equal products of time constants for each system on the scale division. SUB CODE: 08/ SUBM DATE: 23Apr65/ ATD PRESS: 5106	INVENTOR: <u>Gaynanov</u> , A. G.; <u>Dmitriyev</u> , V Panteleyev, V. L.; Smirnov, L. P.	A.; Luginets, A, P.: Mikhaylova, K. K.;	
<ul> <li>Tazvedki)]</li> <li>SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyve znaki, no. 20, 1966, 131</li> <li>TOPIC TAGS: gravimetry, gravimeter, geodetic instrument, surveying instrument</li> <li>ABSTRACT: An Author Certificate has been issued for a gravimeter for the measurement of gravity during motion. The device consists of a gravimeter with double optical-mechanical damping and two flexible quartz sensitive systems on a single armature immersed in a damping fluid. To increase measurement accuracy and work productivity, the flexible sensitive systems have equal products of time constants for each system on the scale division.</li> <li>SUB CODE: 08/ SUBM DATE: 23Apr65/ ATD PRESS: 5106</li> </ul>	TITLE: Gravimeter for measurement of gr fannounced by the All-Union Scientific R	avity during motion. Class 42, No. 187337 Research Institute of Prospecting Geophysica	1
TOPIC TAGS: gravimetry, gravimeter, geodetic instrument, surveying instrument ABSTRACT: An Author Certificate has been issued for a gravimeter for the measure- ment of gravity during, motion. The device consists of a gravimeter with double optical-mechanical damping and two flexible quartz sensitive systems on a single armature immersed in a damping fluid. To increase measurement accuracy and work productivity, the flexible sensitive systems have equal products of time constants for each system on the scale division. SUB CODE: 08/ SUBM DATE: 23Apr65/ ATD PRESS: 5106	razvedki)]		
productivity, the flexible sensitive systems have equal products of time constants for each system on the scale division. SUB CODE: 08/ SUBM DATE: 23Apr65/ ATD PRESS: 5106	TOPIC TAGS: gravimetry, gravimeter, geo ABSTRACT: An Author Certificate has bee ment of gravity during. motion. The devi optical-mechanical damping and two flexi	odetic instrument, surveying instrument	
	productivity, the flexible sensitive sys	stems have equal products of time constants	
Cord 1/1 IDC: 550.831	SUB CODE: 08/ SUBM DATE: 23Apr65/ A	TD PRFSS: 5106	
	Cord 1/1	IDC:550.831	

AUTHOR: <u>Gaynanov, A. G.</u> DRG: none FITLE: Several results of gravimetric investigations in the Sea of Okhotsk, the Aurile-Kamchutka depression, and in adjacent parts of the Pacific SOURCE: Moscow. Universitet. Astronomicheskiy institut. Geologicheskiy fakul'te Morskiye gravimetricheskiye issledovaniya; sbornik statey, no. 2, 1963, 66-76	
NITLE: Several results of gravimetric investigations in the Sea of Okhotsk, the Aurile-Kamchutka depression, and in adjacent parts of the Pacific SOURCE: Moscow. Universitet. Astronomicheskiy institut. Geologicheskiy fakul'te	
Curile-Kamchutka depression, and in adjacent parts of the Pacific SOURCE: Moscow. Universitet. Astronomicheskiy institut. Geologicheskiy fakul'te	
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	et.
TOPIC TAGS: gravity measurement, marine pendulum, damped gravimeter, accelometer gravity anomaly, Bouguer reduction, anomaly gradient, Mohorovicic DISCONTINUITY ERAVINTETRY, EARTH CRUST, STRATIBRA PAY, OCENNOGRAPHIC EXPEDITION /OKNOTSI	,
ABSTRACT: Gravity measurements were made with a Soviet marine pendulum apparatus and marine damped gravimeters. Second-order corrections for sea swells were	
determined by accelerometers. A quartz clock was used for time measurements. The low accuracy of the determination of the ship's position and sea depth caused a provide the ship's position and sea depth caused	he
error in Bouguer anomaly reductions of $\pm 6$ 8 mg t in regions with small gradies	nts
and ±15-20 mgl in regions with steep gradients. The northern part of the Sea of Dkhotsk and Sakhalin are characterized by weak positive and negative Bouguer	51
anomalies. The southern basin of the Sea of Okhotsk has intense positive Bouguer	r
anomalies. The arc formed by the Kurile Islands and the Kurile-Kamchatka deep depression have anomalies with great gradients located along the ridge beneath th	he

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514520018-5"

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ACC NR: AT6028018

water. In the northwest part of the Pacific, great positive Bouguer anomalies are predominant. A schematic map of the Mohorovicic discontinunity was compiled on the basis of gravity anomalies and deep seismic soundings. The accuracy of the thickness of the earth's crust to the Mohorovicic discontinunity depends upon the sediments and their influence on the Bouguer anomalies. The maximum quantity of sediments was found to the south of Sakhalin and the southern basin of the Sea of Okhotsk. The density of the sediment matter was determined by an exponential formula. Table 1 shows the dependence of the gravity anomaly upon the mass sediments. Bouguer



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anomalies were corrected for sediemnt influence, and thickness of the carth's crust was determined. A standard column for the whole thickness was chosen with a mean density consisting of sediment, granite, and basalt layers. The thickness of the column was determined from Bouguer anomalies allowing the depth of the Mohorovicic surface to be computed. A preliminary map of depths was compiled for the Sea of Okhotsk and the Pacific depression. Orig. art. has: 2 tables, 3 figures, and 12 formulas. SUB CODE: 08/ SUBM DATE: 22Nov63/ ORIG REF: 014/ OTH REF: 003

APPROVED FOR RELEASE: 07/19/2001

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ACC NR: AT7000193	SOURCE CODE: UR/0000/64/000/000/0228/0241
AUTHOR: Gaynanov, A. G.	
ORG: none	
TITLE: Some characteristics zones of the Pacific Ocean	of the structure of the earth's crust in the transition
zemnoy kory. Geofizicheskiye Izd-vo Mosk. univ., 1964 228	, hydrographic survey, geologic survey, smic profiling, gravity survey, upper mantle, continental
Soviet geophysical investigat clusion is drawn that the mar to the continents, possess fer magnetic) related to the stru- mantle as well. This is prov- as the difference between the for deep seismic profiling on of the earth's crust and subc	rvey is presented of the results of Soviet and non- ions conducted in the Pacific Ocean. The general con- ginal zones of the ocean, those marking the transition atures of anomalous geophysical fields (gravity and cture not only of the earth's crust but of the upper en by the presence of remanent gravity anomalies obtained ir actual values and the values computed theoretically the assumption of a constant density within the layers rustal layer. These anomalies suggest a decrease in the nder the Kurile and Aleutian Island chains. Lower
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"fringes" and sometimes upper "fringes" of magnetically disturbed masses are often associated with the upper mantle. Orig. art. has: 3 figures.							
SUB CODE: 08/	SUBM DATE: 05Nov64/ ORIG	REF: 016/ OTH REF:	018/	•			
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ord 2/2	•						

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GAYNANOV, S.1 USSER d "A to "readine et" of soke at the table if reduce. If A. (A to "readine et" of soke at the table if reduce. If A. (musaltis, P. I. Turchenko, S. I. Galmanor, N. P. Yar'eva-kayar, and A. I. Sukkenko. The fg fatt. Counch. Felo-neonyck, Akal. Neak S. S. R. 3, 69-77(1031) — The status of coke in the oven when the obling powers is complete h-called its "readines". The properties of the coke depend-ent the coking regime and the final trans, dusing coking they are deaded by resistance measurements of the product (C. A. 13, 4831d). Four degrees of readines. Its obtained with twith the coke resistance of 0-0.7 slim, II 0.7-5.0 shrand-int 5-100 ohas, and W over 160 of ans. Its obtained with transitive coking, II with correct contact. If headbled even her, and IV, only on between the bay in own a character is be appined in d. by 6 prosable mere, we in own a character is be appined in d. by 6 prosable mere, we in own a character is be appined in d. by 6 prosable mere, we in own a character is be appined in d. by 6 prosable mere, we in own a character is be appined in d. by 6 prosable mere, we in own a character is be appined in d. by 6 prosable mere, we in own a character is be appined in d. by 6 prosable mere we in own a character is be appined in d. by 6 prosable mere we in own a character is be appined in d. by 6 prosable is produce the interview in the set of the coking time, and uto to produce the interview interview in the set of the other is the mere interview of the other is the interview in the interview interview interview interview interview interview in the other interview in the interview interview interview interview interview interview in the interview inte 

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#### CIA-RDP86-00513R000514520018-5

LYALYUTSKAYA, Ye., nauchnyy sotrudnik; GAYNANOVA, S., aspirantka; PUSVASHKITE, O. [Pusvaskyto, O.], aspirantka

> Garden pests feeding on leaves. Zashch. rast. ot vred. i bol. 10 no.12:26-27 '65. (MIRA 19:1)

1. Odesskaya sel'skokhozyajstvennaya opytnaya stantsiya (for Lyalyutskaya). 2. Saratovskiy sel'skokhozyajstvennyy institut (for Gaynancva). 3. Litovskaya sel'skokhozyajstvennaya akademiya (for Pusvashkite).

## APPROVED FOR RELEASE: 07/19/2001

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	11-58-5-6/16	
AUTHORS:	Ivanov, B.V.; Moléva, V.A.; Gaynanova, Ye.I.	
TITLE:	On the Alteration of Crystalline Sch1st During Heating (Ob izmenenii kristallicheskogo slantsa pri nagrevanii)	
PERIODICAL:	Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr 5, pp 60-77 (USSR)	
ABSTRACT:	The authors studied the alteration of the crystalline shist in a block taken out of the lining of the furnace used for the lime-calcination. This block was cut out of the albito-actinolitic shist and the results of its roentgeno- graphic study are given (Table 1). This block underwent a long process of furnace heating and was composed of three different colored parts: grey, brown, and dark-brown (shokoladno korichnevaya). The microscopic study of the grey part showed that its mineralogic composition remained unchanged, and only the crystals of the actinolite were gradually transformed into separate filaments. The results of the roentgenographic study of this part (Table 4) show- ed that it was composed of albinite, diopside, and hema- tite. The last two products could be called the pseudo-	
Card 1/4	morphic actinolite. The roentgenographic study also showed	

11-58-5-6/16

On the Alteration of Crystalline Schist During Heating

oxidation of the magnetite and its transformation into hematite. The albite remained absolutely unchanged. The brown part of the block, sharply differs from the grey part in its structure and mineral composition. The linealparallel texture disappears and the glass-like phase appears in a small quantity, indicating the beginning of the melting of the rock. The transformation of the albite is also observed. Its larger grains had started to melt and its smaller grains were transformed into a mass of finegrained plagioclase. The labradorite was found in the glass-like phase. The results of the roentgenographic study are shown in Table 5. The dark-brown, porous part of the block had a very dense caked structure and was characterized by the presence of large and small pores. Caverns were found in spots on the surface, filled by a light-grey fine-grained mass. The albite disappeared completely, it had melted and formed a part of the glasslike mass. The quantity of the labradorite increased, and a new product appeared in the glass - colorless crystals of pyroxene. The ferric oxides were also found in the glass-like substance, containing small cubic crystals

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11-58-5-6/16

On the Alteration of Crystalline Schist During Heating

of secondary magnetite. Results of the roentgenographic study of this part of the block are given in Table 6. The caverns on the surface of the block were filled with a powder, caked into a solid mass. Between this mass and the dark-brown surface, small seams of characteristic minerals were formed. According to the authors, these seams represent a miniature skarn. The roentgenographic study of the powder showed that it was composed of calcite. The seams were formed as a result of interaction of the lime and the components of the block. The composition of these seams were: well formed crystal of melilite; yellowgreen pyroxene and colorless pyroxene. The comparison of the chemical analysis of the original minerals and of two heated parts showed the identity of their composition, which proved the supposition that in the zones of the blocks of rocks, reactions in a hard state occur by the redistribution of the oxides of the composing products of the rock without addition of any new material. There are 8 tables, 2 figures, 9 photos and 14 Soviet references. Ē

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APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514520018-5

11-58-5-6/16
On the Alteration of Crystalline Schist During Heating
ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moscow (Geological Institute of Ore Deposits, Petrography, Mineralogy and Geochemistry of the AS USSR, Moscow)
SUEMITTED: 12 July 1957.
AVAILABLE: Library of Congress
Card 4/4 1. Rocks-Crystal-Heating-Physical effects

APPROVED FOR RELEASE: 07/19/2001

IVANOV, B.V.; GATMANOVA, Ye.I. [Hainanova, O.I.]

Iron cordierite, Fe\_Al<sub>4</sub>Si<sub>5</sub>O, from the bottom of an electric furnace used for smelting calcium carbide [with summary in Mnglish]. Dop.AN URSR no.12:1328-1331 '58. (NIRA 12:1)

1. Institut geologii rudnykh mestorozhieniy, petrografii, mineralogii i geokhimii AN USSR. Predstavil akademik AN USSR P.P.Budnikov [P.P.Budnykov].

(Cordierite)

APPROVED FOR RELEASE: 07/19/2001

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CIA-RDP86-00513R000514520018-5

"APPROVED FOR RELEASE: 07/19/2001

sov/131-59-11-5/13 Tatarokaya, T.B., Gaynanova, Ye. I. Peculiarity of the Destruction of the Fireproof Casing of a Nolybdenum Furnace With Hydrogen Filling 15(2) AUTHORS: Ogneupory, 1959, Nr 11, pp 507-510 (USSR) In the work under review the authors carried out physico-TTLE: chemical as well as petrographic investigations of unumruss as work as yourugraymed investored on on their use in high-aluminiferous chamotte and magnesite for their use in budmerer modeling with moment to the chamotte with high contain high-aluminizerous onemotie and magnesite for their use in hydrogen medium. With respect to the chamotte with high content PEHIODICAL: Warogen meutum, what respect to he onemotes while math inter on terms of alumina, samples were investigated from Vault and bottom of a molybdenum furnace with hydrogen filling after uninter-ABSTRACT: rupted work in the course of it asys by a working temperature of 1500 and were compared with a muffle sample before its use. The sample from the furnace vault exhibits a strong change in the sample from the furnace read and the furnace of the strong change in ite external appearance after uses. The furnace bottom Changed but little in ite chemical composition (see Table). The but little in its chemical composition (see Table). The netrographic investigation screen has a clin with the chemical petrographic investigation agrees basically with the chemical analysis, Magnesite samples of the pasing of a molyheavyment HIBLYDLU, BU MBY UT DECH LEUM VHT MLOFOBULUVUREB IN ILGUR 1 and 2. Magnesite Samples of the casing of a molybdenum funce with hydrogen filling were investigated after their mut use during 30 days at a working temperature of 1600°. Their Card 1/3

APPROVED FOR RELEASE: 07/19/2001

Peculiarity of the Destruction of the Fireproof SOV/131-59-11-5/13 Casing of a Molybdenum Furnace With Hydrogen Filling

> microstructures are shown in figures 3 and 4. It is stated in conclusion that the refractories with a high content of alumina change markedly after their use in the vault of a furnace with hydrogen filling, namely in their coloring, density and mineralogical structure. The porosity of the furnace bottom dropped from 23.8 to 1.8%. Data from publications are confirmed, according to which refractories with an SiO, content are not suited for use in hydrogen medium. Under these conditions, at tomperatures of from 1000 to 1600°, compact corundum products are advisable. When used in hydrogen medium, magnesite also changes markedly, namely in coloring and crystallization, which is, however, not accompanied by a change in porosity, in volumetric weight, and in shrinkage. The use of ordinary magnesite tiles in hydrogen medium can be recommended only at temperatures of 1400-1600°. There are 4 figures, 1 table, and 6 references. 3 of which are Soviet.

ASSOCIATION: TENIICHERNET = Teentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy) Institut geologii rudnykh mestorozhdeniy,

APPROVED FOR RELEASE: 07/19/2001



APPROVED FOR RELEASE: 07/19/2001

GAYNANSHINA, A.M.; POLUYAN, I.G.; CHEMODANOV, V.S.

Efficiency in using production wells drilled in layer D<sub>1</sub> of the Bavly oil field. Nefteprom.delo nc.10:3-5 465.

(MIRA 19:1)

1. Neftepromyslovoye upravleniye "Bavlyneft'" i Tatarskiy neftyanoy nauchno-issledovatel'skiy institut.

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GAYNANSHIN, I.G.; ZINATULLINA, A.M.; DANILIN, R.A.; RAFIKOV, R.A.

Stimulating the recovery of oil in the Bavly field by using surfactants. Nefteprom. delo no.2:24-26 '64. (MIRA (MIRA 17:4)

1. Neftepromyslovoye upravleniye "Bavlyneft'".

APPROVED FOR RELEASE: 07/19/2001

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CIA-RDP86-00513R000514520018-5

20921

S/057/61/031/003/005/019 B125/B202

9,2585 AUTHORS:

Zagorodnov, O. G., <u>Gaynberg, Ya. B</u>., Yegorov, A. M., and Bolotin, L. I.

TITLE: Multiplication of the frequency by means of plasma "slamming"

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 3, 1961, 297-300

TEXT: The present paper deals with the experimental study of the problem of frequency multiplication by slamming. As is known, a Doppler effect occurs when electromagnetic waves are reflected from a moved surface. In this case frequency and amplitude of the incident wave are changed. The effect concerned can be considerably increased in the case of multiple reflection. This is attained, e.g., by concentrating the electromagnetic energy in a volume completely or partially filled with the plasma. This volume is then rapidly reduced by slamming the plasma. In this case not only density but also the total electromagnetic energy are increased. In the case concerned the energy of the photons that are multiply reflected from the plasma is increased. This effects the reversal of the Fermi

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CIA-RDP86-00513R000514520018-5

20921 s/057/61/031/003/005/019 B125/B202 Multiplication of the frequency... acceleration effect. In the case of multiple reflection frequency and amplitude strongly increase even in the case  $V_{\bullet} \ge C(V \ll C)$ . This effect was experimentally checked for an  $H_{011}$  wave in the 10-cm region. The electromagnetic field was compressed in a resonator having the shape of a metallic rectangular resonator. The plasma piston entered the resonator by a grating consisting of three metal bands. The second front face of this waveguide gradually passed into a waveguide with the critical wavelength  $\lambda_{cr}$  = 4.6 cm. This waveguide serves as filter for the harmonic frequencies. The plasma piston was produced by a two-electrode discharge with special ignitor and with additional electrodynamic acceleration. Fig. 1 shows the general block diagram of the experimental arrangement. The beginning of discharge can be regulated such that the plasma compression occurs two to three microseconds after the beginning of the high-frequency pulse in the waveguide. On slamming also the frequency of the electromagnetic field increases as a result of multiple reflection from the moved plasma until the frequency of the field exceeds the critical frequency of the waveguide filter. Fig. 3 illustrates the oscillograms of the high-frequency signals with the "multiplied" frequency at different instants of time of the Card 2/4

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#### Multiplication of the frequency...

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plasma slamming. In this case the maximum pulse height of the highfrequency signal with the multiplied frequency corresponds to the shortest duration of slamming. These outputs are separated from the high-frequency pulse which is interrupted by the moving piston by the time interval C. This time interval corresponds to the "slamming time", i.e., the time required for the multiplication of the frequency of the initial value (in this case 2840 megacycles) to a value slightly exceeding the critical frequency of the waveguide (6530 megacycles). Thus, the frequency was increased by little more than 2.3 times. The spectrum of the oscillations produced by the magnetron contained harmonic oscillations of small amplitudes which penetrate into the waveguide. Their amplitudes reproduce the form of the magnetron pulse. During slamming dissipation of the field energy caused by losses in the cavity and in the plasma compression occurs besides the frequency multiplication and the intensification of the field amplitude. To obtain a sufficiently large amplitude of the signal at the output the "slamming time" must be of the same order of magnitude as the attenuation time  $T_{\alpha} = Q/\omega$ . In the experiments described slamming takes ~0.4 microseconds, which corresponds to a

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Multiplicatio	on of the frequency	S/057/61/031/003/00 B125/B202	05/019 J
was shown the can be attain 2 non-Soviet	at by slamming a sufficient and. There are 3 figures a bloc. The 2 references to E. L. Ginston, Science, 12	he plasma compression. Thus ly strong frequency multipl nd 8 references: 6 Soviet English language publicati 7, 3303, 1858; A. C. Kolb,	lication -bloc and lons read
ASSOCIATION:	Fiziko-tekhnicheskiy inst of Physics and Engineering	itut AN USSR Khar'kov (Ins of the AS UkrSSR Khar'kov)	titute
SUBNITTED:	Мау 20, 1960		
Card 4/4			

GAYNETDINOV, M., kand.ekonomicheskikh nauk

Possibilities for lowering costs on state fattening farms. Mias. ind. 3358 31 me.4:34-35 '60. (MIRA 14:7)

1. Ryazanskiy sol'ekokhozyaystvennyy institut. (Cattle-Feeding and feeds)

GAYNETDINOV, M.

Beef cattle should be fattened in specialized enterprises. Mias. ind. SSSR 34 no.3:34-35 '63. (MIRA 16) (MIRA 16:7)

1. Ryazanskiy sel'skokhozyaystvennyy institut.

GATHETDINOV, H., kand. ekon. nauk.

Capacity of livestock fattening farm. Mias. ind. SSSR 28 no.5:41 '57. (Bashkiria--Cattle--Feeding and feeding stuffs) (MIRA 11:1)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514520018-5"

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GATHETDIKOV, M., dots. Fattening swine on distillers' feed. Mauka i perod.op.v sel'khoz. 9 no.8:17-18 Ag '59. (MIRA 12:12) 1. Sverdlovskiy sel'skokhozyaystvennyy institut. (Swine--feeding and feeds) (Distilling industries--By-products)

APPROVED FOR RELEASE: 07/19/2001

# GAYNETDINOV, M.F.

Fattening of cattle with the by-products of the alcohol-industry. Spirt.prom. 26 no.7:25-26 '60. (MIRA 13:10) (Distilling industries-By-products) (Cattle--Feeding and feeds)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514520018-5"

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GAYNETDINOV, M.F.

Wastes of distilleries as an important source for increasing feed production. Spirt. prom. 29 no.7:35-37 '63. (MIRA 16:12)

1. Ryazanskiy sel'skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514520018-5"

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# GAYNETDINOV, M.F.

STREET CONTRACTOR CONTRACTOR

Use of distillery wastes for cattle fattening. Ferm. 1 spirt. prom. 30 no.6:15-17 <sup>1</sup>64. (MIRA 17:11)

1. Pyazanskiy sel'skokhozyaystvennyy institut.

## CIA-RDP86-00513R000514520018-5

GAYNETDINOV, M.

Transportation of food industry by-products used as feeds. Avt. transp. 42 no.10:39-41 0 '64. (MIRA 17:11)

1. Ryazanskiy sel'skokhozyaystvennyy institut.

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## CIA-RDP86-00513R000514520018-5

GAYNIYEV, S.S., dots.; KIRILLOVA, A.A., dots., glav. red.; BLAGOVESHCHENSKAYA, N.N., dots., red.; SINYAGINA, N.P., st. prepod., red.

> [Vertebrates of Ul'yanovsk Province] Pozvonochnye zhivotnye Ul'ianovskoi oblasti. Ul'ianovsk, Gos. pedagog. in-t, 1959. 74 p. (NIRA 16:10) (Ul'yanovsk Province--Vertebrates)

APPROVED FOR RELEASE: 07/19/2001



## GAYNOV, A. T.

Cand Phys-Math Sci - (diss) "Several problems of the theory of non-associative rings." Novosibirsk, 1961. 9 pp; (Academy of Sciences USSR, Siberian Division, Joint Academic Council for Physics-Mathematics and Technical Sciences); 160 copies; free; bibliography at end of text (11 entries); (KL, 7-61 sup, 218)

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#### CIA-RDP86-00513R000514520018-5



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#### CIA-RDP86-00513R000514520018-5

86369 S/020/60/133/006/018/031XX 0 111/ 0 333 Free Commutative and Free Anticommutative Products of Algebras  $Ot_1, \ldots, Ot_n$  have the length 1, then at least two of them lie in different  $O_{L_{\infty}}$ . Parentheses are arbitrarily distributed in the product  $b_1, b_2, \dots, b_k p_1$  ( $O_{L_1}, \dots, O_{L_n}$ )  $c_1, c_2, \dots, c_l$ . Definitions The factor algebra  $G = \overline{G}/I$  is called the reduced free product of the algebras  $A_{\alpha}$ ,  $\alpha \in S$ , which is given by the identity relations (P)  $p_i(x_1, \ldots, x_n) = 0$  ( $i = 1, 2, \ldots$ ), or in short: P-free product of the algebras  $A_{\infty}$  , and is denote with  $G = \prod_{k=1}^{\nabla} A_{k} = A_{1} \nabla A_{2} \nabla \dots$ . The author gives a second equivalent definition. He enumerates nine properties of the P-free products, e.g. I. A  $\nabla$  B = B  $\nabla$  A V. If G = A  $\nabla$  B, and A is the bilateral ideal which is generated by A in C, then it is  $G/\overline{A} \cong B$ . Every algebra, for the arbitrary elements  $x_1, x_2, \ldots, x_n$  of which all the equations (P) are satisfied, is called P-algebra. The reduced free products defined by the systems (K) xy - yx = 0 or (AK) xy + yx = 0 are denoted as free commutative (K-free) or free anticommutative (AK-free) products of algebras. Card 2/5

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#### CIA-RDP86-00513R000514520018-5

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Free Commutative and Free Anticommutative Products of Algebras

In the following P-free is understood as K-free or AK-free. Theorem 1: Let  $G = \prod_{k=1}^{\infty} A = \nabla_{k} F$ 

be the P-free product of arbitrary algebras  $A_{eq}$  and of the free P-algebra F; let H be a P-algebra which is assumed to be a subalgebra of G. Then it is

 $H = \frac{\Pi^{\nabla}}{\Pi^{\nabla}} B_{\alpha} \nabla \nabla, \text{ where } \Pi^{\nabla} \text{ is the same P-free}$ 

product,

 $B_{\downarrow} \simeq H \land A_{\chi}$  and V a certain free P-algebra.

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Theorem 2: Let G be a P-algebra with finitely many generators

(2) 
$$g_1, g_2, \ldots, g_n$$

and let  $G = A_1 \nabla A_2 \nabla \dots \nabla A_k$  be a P-free product. By elementary transformations (see (Ref.5)) the system (2) can be Card 3/5

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Free Commutative and Free Anticommutative Products of Algebras

brought to a form such that all generators (2) lie in the factors  $A_1, \ldots, A_k$ , where: if  $g_1, g_2 \ldots g_1$  are all generators from (2) which lie for instance in  $A_1$ , then they generate  $A_1$ .

The author introduces the notion of the isomorphism of two P-free decompositions of an algebra and states that decompositions with irreducible factors are isomorphic.

A. G. Kurosh is mentioned. The author thanks A. J. Mal'tsev and A. J. Shirshov.

There are 5 Soviet references.

[Abstracter's notes (Ref.1) concerns a paper of A. G. Kurosh in Matematicheskiy sbornik, 1947, Vol. 20, No. 2, p. 239; (Ref. 5) concerns a paper of A. G. Kurosh in Matematicheskiy sbornik, 1955, Vol. 37, No. 2, p. 251] .

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APPROVED FOR RELEASE: 07/19/2001

86 36 9 s/020/60/133/006/018/031XX C 111/ C 333 Free Commutative and Free Anticommutative Products of Algebras

ASSOCIATION: Institut matematiki Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Mathematics of the Siberian Department of the Academy of Sciences USSR)

PRESENTED: April 14, 1960, by A. J. Mal'tsev, Academician SUBMITTED: April 6, 1960

Card 5/5

REFERENCE

APPROVED FOR RELEASE: 07/19/2001

GAYNOV, A.T.

B CORRECTION AND

Commutative and anticommutative free products of algeoras. Sib.mat.zhur. 3 no.6:805-833 N-D <sup>1</sup>62. (Algebra, Abstract) (MIRA 15:11)

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KOZLOVSKIY, M.T.; GLADYSHEV, V.P.; GAYNRIKHS, K. Ya.; THABER, G.A.

Separation of bismuth from lead and some other metals by the amalgam method in perchloric acid electrolytes. Zhur. prikl. khim. 37 no.ll:2402-2407 N '64 (MIRA 18:1)

Kazakhskiy gosuderstvennyy universitet.

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CIA-RDP86-00513R000514520018-5

SOV/92-58-1-5/22

AUTHOR:

Gayntsev, A. F., Senior Engineer

TITLE: Drilling the Loose Devonian Argillaceous Rocks (Bureniye v osypayushchikhsya argillitakh devona)

PERIODICAL: Neftyanik, 1958, Nr 1, pr. 7-8 (USSR)

ABSTRACT: The author states that serious difficulties are encountered in drilling Devonian sedimentary rocks in the Stalingrad petroliferous area. These difficulties are mostly caused by stalled tools, sudden pump pressure increases, and even by the loss of circulation. All these troubles begin when loose Devonian argillaceous rocks, 800-1,000 meters thick, are reached. Of the total number of oil wells drilled during the last five years only two were drilled there to the depth of 2882-2936 meters, although it was planned to reach the depth of 3000 meters. Various drilling fluids and reagents were tested during this period of time. Among other reagents the alkali

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### CIA-RDP86-00513R000514520018-5

SOV/92-58-1-5/22

### Drilling the Loose Devonian Argillaceous Rocks

carbonate solution (UShChR) was used in various combinations with liquid gless and soda ash. The successful drilling of the No. 205 cil well proved that the UShChR content may be raised to 35-40 percent without increasing the looseness of the formation drilled. The following specifications of the drilling mud may be recommended as a result of numerous tests: viscosity at least 50 seconds, shear stress, after one minute, not less than 70-100 milligrams per cu. centimeter, specific gravity not less than 1.30, and water filtration at the borehole bottom 6 cu. centimeters. The problem of cleaning boreholes under existing conditions should also be taken into consideration because the pollution of the drilling fluid increases with the deepening of perforation. When viscous solutions with UShChR are used, it is necessary to decrease their adhesiveness and to increase their fluidity in order to prevent clogging in the formation. Oil-emulsions with an admixture of petroleum in the amount of 10-12 percent and lime-starch solutions mixed with petroleum : may serve the purpose. These recommendations are based on observations made in the course of operations when drill tools were lowered and listed without difficulty, turbo-drills worked satisfactorily and operating pressure was normal. Properly treated drilling fluids having the

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rilling the	Loose Devonian Argillaceous Rocks	<b>807/92-58-1-5</b> /22
	properties may be useful for drilling Devo alingrad region or in any other region when a prevail.	
SSOCIATION:	TaNIL tresta Stalingradneftegazrazvedka – neftegazrazvedka Trust)	(Table of the Stalingrad-
	1. Petroleum industry 2. Drilling mach 3. Drilling fluidsPerformance 4. Dri	
Card 3/3		

LIPKES, MI.I.; GAYNTSEV, A.F.; DUKHON, P.Yu.; ANAN'YEV, A.N.

Industrial tests of chlorolignin a new viscosity reducing reagent for drilling muds. Trudy VNIING no.2:20-26 '63. (MIRA 17:5)

GAYNTSEV, F.M.

. . . . . . . .

Possible main source of diamonds in the Southern Chunya Basin. Mat. po (MIRA 17:2) geol. i pol.iskop.Kras.kraia no.3:237-239 '62.

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# Electric Motors

Increasing the stability of an electric motor when working in two phases. From. energ., 9, 10.7, 1952.

Monthly List of Russian Accessions, Library of Concress, October 1950, UNCLASSIFIED

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## CIA-RDP86-00513R000514520018-5

GAYNTSEY, YU V. 831 313.322 : 621 316 339
831 313.322 : 621 316 339
833 AUTOMATIC EXCITATION REGULATOR FOR SMALL HUGH-SPEED ALITHINATORS & YU.X.Gaintsex.
836 also Abstr. 2538-9 (1956). The regulator described may br upplied for medium and formal 100-300 kVA high-speed alternity are a surplified regulator has a compounding syntem applied to the processing and a single phase corrector. The latter consists either of a local corr wellnear impedance, or of a measuring bridge. At nominal voltage the rector current is zero. Any unbalance preduces a restoring current the another internation of a measuring bridge. At nominal voltage the error current is zero. Any unbalance preduces a restoring current the another internation of a measuring bridge. The store current the statistical grandomers are required. For a 125 U.A. the Y 831.313.322 : 621 316 949 1996 rev/min alternator the corrector consumes  $240~W_{\odot}$  1400 V.3. By time constant is 0.017 sec. The characteristics of a regulated alternator and of a corrector are shown. W.M.Zycki

APPROVED FOR RELEASE: 07/19/2001

GAYNTSL', G

Diaphysial fractures of the bones of the forearm and their treatment. Ortop., travm. i protez. no.1:15-23 \*63.

(MIRA 16:10) 1. Iz khirurgicheskogo otdela bol'nitsy dlya gornorabochikh (glavnyy vrach - doktor meditsiny G.Gayntal') v Eyslebene, Germanskaya Demokraticheskaya Respublika.

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GAYNUDINOVA, F.Kh.; KRUGLOVA, Ye.K.

Copper and its forms in irrigated Fergana Valley soils. Uzb. (MIRA 1632)

1. Institut pochvovedeniya AN UzSSR. (Fergéna--Soil chemistry) (Copper-Analysis)

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Heating of the sewing machine needle during sewing. Shvien. prom. no.6:14-15 N-D '61. (MIRA 14:12) (Sewing machines)

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Effect of the speed rate of the sewing machine operation on the heating of the needle. Shvein. prom. no.3:16-19 My-Je '63. (MIRA 16:8)

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l. Leningradskiy tekstil'nyy institut imeni S.M. Kirova. Rekomendovana kafedroy tekhnologii shveynogo proizvodstva.

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GAYNULLIN, T. R.

Materials on epizootiology of paratuberculous enteritis of cattle in the Bashkir ASSR. Veterinariia, 29, No 6, 1952.

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GAYNULLIN, T.R., kandidat veterinarnykh nauk.

-----Treatment of cattle in paratuberculeus enteritis. Veterinariia (MLRA 8;12) 32 no.11:27-29 ¥ '55.

> 1.Vashkirskaya nauchne-issledevatel'skaya veterinarnaya epytnaya stantsiya.

(JOHDE'S DISHASE)

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Author	: Gaynullin, T.R. : Kazan' Scientific Research Veterinary Institute.
Inst	: Kazan' Scientific Rescurse : Hidden Bacillus Transmission in Paratuberculosis of : Hidden Dacillus Transmission in Paratuberculosis of : Hidden Dacillus Transmission in Paratuberculosis of
Title	: Hidden Bacillus Transmission in Paratusciont). Large Horned Cattle (The Author's Own Report).
Orig Pub	Large Horned Cattle (income Eyul. nauchno-tekhn. inform. Kazansk. ni. vet. in-ta, 1957, No 1, 20-21
Abstract	Microscopic examination of bacteria in biopsy specimens of intestinal mucosa of the rectum of four clinically healthy heads of cattle from farms where paratuberculo- sis was present, uncovered paratubercullar bacteria. When allergen was applied these animals showed a
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GAYNULLIN, T.R., kand.veterinarnykh nauk

Sulfanilamide therapy in paratuberculosis. Veterinariia 37 no.8:27-30 Ag \*60. (MIRA 15:4)

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Complement fixation reaction in the diagnosis of paratuberculosis. Veterinariia 39 no.1:30 Ja '62. (MIRA 15:2)

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GAYNULLIN, T.R., kand. veterin. nauk

Raising healthy calves from cows infected with paratelesteroelosis. Veterinariia 41 no.4:39 Ap <sup>1</sup>64. (MIRA 17:8)

1. Bashkirskaya nauchno-proizvodstvennaya veterinarnaya làboratoriya.

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DVIGANTSEV, V. Mekhani $_{Z}$ atsiya i organizatsiya truda v kolkhoznom kormoproizvodstue. -- sm. 20004.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, Moskva, 1949.

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GAYNULLINA, Kh.G., veterinarnyy vrach. Modified method of diagnosing rabies. Veterinariia 31 no.2:32 (MLRA 7:2) 1 154. 1. Bashkirskaya respublikanskaya veterinarnaya bakteriologicheskaya laboratoriya. (Veterinary medicine--Diagnosis) (Hydrophobia) SPOT STREET -----

GUMEROVA, M.Kh.; ARISTOVA, T.V.; GIL'MANOVA, R.G.; L'VOV, F.V.; BUKCHANTAYEVA, M.S.; MUKHAMETSHINA, M.A.; GAYHULLINA, N.H.; KHRAMOVA, N.P.; KOBRANOVA, I.N., red.; LABUDIN, N.T., red.; IBROGIMOVA, Z.A., tekhn.red.

> [Forty years of the Tatar A.S.S.R.; statistical collection] Tatarskaia ASSR za 40 let; statisticheskii sbornik. Kazan', Tatarskoe knizhnoe izd-vo, 1960. 171 p. (MIRA 14:3)

1. Tatar A.S.S.R. Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Tatarskoy ASSR (for Kobranova). (Tatar A.S.S.R. --- Statistics)

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CIA-RDP86-00513R000514520018-5"

KHABIBULLIN, Sh.T.; GATHULLINA, B.Kh.

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Analysis of visual and photographic star counts in the direction of the nebula "North America". Uch.sap.Kas.un. 116 no.5:63-68 '56. (MLRA 10:4)

1. Kafedra astronomii. (Stars--Distribution)

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88938 S/035/61/000/001/014/019 311810 A001/A001 Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1961, No. 1, p. 58, # 1A413 AUTHOR: Gaynullina, R.Kn. TITLE: Spectrophotometry of Red Portion of the Spectrum of Low-Latitude Aurora of September 29-30, 1957 PERIODICAL: "Izv.Astrofiz.in-ta AN KazSSR", 1959, Vol.8, pp.79-81 (Engl.summary) The author presents results of determining intensity of red lines TEXT:  $\lambda$  6300 and 6364 (OI) during the aurora of September 29-30, 1957, on the Kamensk plateau near Alma-Ata with a (N-48: (SP-48) spectrograph. The absolute values of intensities were obtained by comparing with the Sun. The intensities of lines  $\lambda$  6300 and 6364 turned out to be 108x10<sup>-3</sup> and 41x10<sup>-3</sup> erg/cm<sup>2</sup>sec sterad respectively at 17<sup>h</sup>52<sup>m</sup> UT and 38x10<sup>-3</sup> and 12x10<sup>-3</sup> erg/cm<sup>2</sup>sec sterad at 21<sup>h</sup>55<sup>m</sup> UT. There are 7 references. N. D. Translator's note: This is the full translation of the original Russian abstract. Card 1/1------

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