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SUBJECT: SOVIET SPACE INSTRUMENTATION.

A Sibirian Scientific Research Institute of Terrestrial Magnetism, Ionosphere and Radiowave Propagation is being organized in Irkutsk as part of the Sibirian branch of the USSR Academy of Sciences on the basis of the existing facilities of the Irkutsk Magnetic-Tonospheric Station and the Irkutsk Regional Bureau of radio forecast. The institute will have five laboratories (terrestrial magnetian and electricity, ionospheric research, propagation of radiowaves, solar research, and study of cosmic rays). It will also have a design office, work shops, library and a group of stations. It will work on the requirements of industria and scientific organizations (Ref. Toid)

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AUTHORS:

Sergeyev, A.V., and Luzov, A.A.

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The barometric coefficient of the neutron component TITLE:

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 4, 1962, 13, ab-stract 4669 (V. sb. Kosmicheskiye luchi, no. 3, M., AN SSSR, 1961, 163-165)

TEXT: Calculations are reported on the barometric coefficients of the neutron component of cosmic rays, based on experimental data ob-tained at Irkutsk and Deep River. The average value of the barome-tric coefficient for 1958 - 1959 is  $\beta = -(0.69 \pm 0.01)$  %/mb. A sea-sonal variation was established for the barometric coefficient with a maximum in the summer (0.73 %/mb) and a minimum in the winter (0.65 %/mb). [Abstractor's note: Complete translation].

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221 (222) Approved For Release 2001/03/26 : CIA-RPP96-00787R000500130084-3 89799 s/169/61/000/003/017/022 9,9110 (2603, 1041,1046) A005/A005 Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 3, p. 32, # 3G282 AUTHORS: Mishin, V. M., Shchepkin, L. A. TITLE: Perturbations in the F2-Layer According to Observations at Irkutsk PERIODICAL: "Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te", 1959, No. 37, pp. 57-67 The statistical regularities of the "activity" of the F2-layer are TEXT: investigated, i. e., of the irregular fluctuations of the parameters  $f_0F2$  and  $h^{1}F2$ . Materials from observations at Irkutsk from the period 1948-1952 are used. As a measure of "activity", the deflections 4 f and 4 h from the median values of the corresponding magnitudes are taken which were obtained by stable days (in the sense of the undisturbed ionosphere state). The correlation between the intensity of the horizontal component of the Earth's magnetic field and  $\Delta$  f is close to zero. Hence it follows that the influence of magnetic effects on the perturbation of the F2-layer is small. The fluctuations |Af| in all seasons have a maximum about in midday. The diurnal course of the magnitude  $|Af|/f_0F2$  differs from the course Card 1/3 S/169/61/000/003/017/022 A005/A005

Perturbations in the F2-Layer According to Observations at Irkutsk

of  $[\Delta t]$  in such a manner that it has a maximum in winter by night. The diurnal course of  $[\Delta h]$  has a maximum in summer by day, in winter by night. The quantity  $[\Delta h]$  has a maximum in summer. The diurnal course of  $[\Delta f]$  does not change in shape at the transition from stable to magnitically disturbed days. The statistical regularities are individually considered for positive and negative  $\Delta f$  and  $\Delta h$ . The diurnal course of the positive  $\Delta f$  has by magnetically disturbed days a complicated structure and a relatively small amplitude; the negative  $\Delta f$  has a maximum about in midday and little change at the transition hours with a decrease in f F2 and inversely. In magnetically disturbed hours, h'F2 always increases whereat this effect has a maximum by night for  $\Delta f < 0$ , and by day for  $\Delta f > 0$ . Some other statistical regularities of the magnitudes  $\Delta h$  and  $\Delta f$  are also studied. A phase shift between the disturbance indices of the magnetic disturbance becomes apparent at  $\Delta h$  through 6-12 hours after the disturbance. From the analysis of the obtained regularities it is concluded that one can consider the negative perturbations  $f_0F2$  as a peculiar magnification of effects which are analogous to those which cause the anomalies of the F2-layer in summer.

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Perturbations in the F2-Layer According to Observations at Irkutsk

possible variation in intensity of the ionizing agent  $\delta I_0$  is estimated. By a summer day is  $\delta I_0 > 0$  for  $\Delta f < 0$ . In winter  $\delta I_0$  agrees in sign with  $\Delta f$ . L. Shchepkin

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

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Geomagnetic phenomena ...

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associate of the Kafedra radiofiziki Irkutskogo gosuniversiteta (Chair of Radiophysics of the Irkutsk State University), to A.V. Bukhnikivshvili, Director of the Institut geofiziki (Institute of Geophysics) of the AN Gruzinskaya SSR, to M.A. Belousova, scientific associate of the Institut zemnogo magnetizma Akademii nauk SSSR (Institute of Terrestrial Magnetism of the Academy of Sciences USSR), and to T.N. Panov, scientific associate of the Sverdlovsk Magnetic Observatory. There are 2 figures, 1 set of figures and 8 references, of which 4 are Soviet and 4 non-Soviet. The 4 English-Ianguage references are: T. Gold, Gas Dynamics of Cosmic Clouds. Edit. by H.C. van de Hulst, T.M. Burgers, Amsterdam, 1955; S.F. Singer, Trans. Amer. Geophys. Union, 38, 2, 1957; H.E. Petschek, Rev. Mod. Phys., 30, 1958, 966; H. Uyeda, H. Maeda, A. Kimpara, T. Obayashi, S. Ishikava, a. Y. Kawabata, J. Geomagn. and Geoelectr., 11, 42, 1959. [Abstracters note: Essentially verbatim translation].

Card 3/5

32140 s/534/61/000/021/004/005 D055/D114 Geomagnetic phenomena ... Fig. 1 Changes in the H component of the Earth's magnetic field observed at the Irkutsk Magnetic Observatory after the explosion of the Tunguska meteorite (GMT; marking correction for one hour 4.2 min). , +∆H 2 Card 4/5321/10 s/534/61/000/021/004/005 Geomagnetic phenomena ... D055/D114 Fig. 2 Changes in the Z component of the Earth's magnetic field observed at the Irkutsk Magnetic

+ΔZ 0<sup>h</sup> 2<sup>h</sup>

Observatory after the explosion of

the Tunguska meteorite (GMT; no correction).

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AUTHOR: None given

TITLE: News in Brief

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, No. 8, p. 117

TEXT: 1) On the Organization of the Sibirskiy institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln (Siberian Institute of Geomagnetism, Ionosphere, and Propagation of Radio Waves). The Presidium decided to establish this Siberian institute in Irkutsk within the framework of the Sibirskoye otdeleniye (Siberian Department), on the basis of the Irkutskaya magnitno-ionosfernaya stantsiya (Irkutsk Magnetic-ionospherical Station) and the Irkutskoye zonalnoye byuro radioprognozov (Irkutsk Zone Office of Radio Forecasts). The structure of this institute consisting of five laboratories (for geomagnetism and electricity, investigations of the ionosphere, propagation of radio waves; investigations of the sun, cosmic rays), as well as a design office, workshops, a library, and a group of stations, was approved.

Card 1/3

News in Brief

s/030/60/000/008/010/013 B021/B054

2) On the Organization of the Polyarnyy geofizicheskiy institut (<u>Geophysical Polar Institute</u>). The Presidium decided to establish the Geophysical Polar Institute within the framework of the Kol'skiy filial im. S. M. Kirova (Kola Branch imeni S. M. Kirov) in order to coordinate the geophysical research work carried out on the Kol'skiy Peninsula by institutes of the Akademiya nauk SSSR (Academy of Sciences USSR). This institute is to be established in Murmansk/on the basis of the local department of the Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln (Institute of Geomagnetism, Ionosphere, and Propagation of Radio Waves), of the Lovozerskaya stantsiya Instituta fiziki Zemli (Lovozero Station of the <u>Institute for the Physics of the Earth</u>), and of the seysmicheskaya stantsiya "Apatity" (Seismic Station "Apatity"). S. I. Isayev, Candidate of Physical and Mathematical Sciences, was appointed Deputy Director of the institute. 3) Award of Name Prizes. On a resolution by the expert commissions, the following name prizes were awarded for 1960: the Prize imeni P. P. Anosov of 20.000 rubles to I. A. Oding, Corresponding Member AS USSR, V. S. Ivanova, V. V. <u>Burdukskiy</u>, V. N. Geminov, Candidates of Technical Sciences, for their

Card 2/3

News in Brief

S/030/60/000/008/010/013 B021/B054

paper on the theory of creeping and the durability of metals; the Prize imeni N. N. Miklukho-Maklay of 10.000 rubles to M. G. Levin, Doctor of Historical Sciences, for his paper "Etnicheskaya antropologiya i problemy etnogeneza narodov Dal'nego Vostoka" (Ethnic Anthropology and Problems of Ethnogenesis of the Peoples of the [Soviet] Far East). 4) On the Organization of the "Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki". In the place of the publication of nonperiodical collective volumes on calculating mathematics, the above-mentioned periodical is to be published as from 1961 as the organ of the Otdeleniye fiziko-matematicheskikh nauk (Department of Physical and Mathematical of 3,000 copies. One copy will cost 15 rubles. Academician <u>A. A.</u> Dorodnitsyn's appointment as chief editor of the periodical was approved.

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FIRM NO. CLASSIFICATION CARD NO. WJR 2216422 Approved For Release 2001/03/26 CIA-RDP96-00787 R0005001300844 1960 CODE ...... IRKUTSK INDUSTRIAL CATEGORY CODES 438 CODE ! COUNTRY 1131 491 USSR DATE/INFO DATE/SOURCE EVAL. REMARKS MN. & NO. DA. MO. YR. DA. MD. YR. OULE VDE CIA NO SOURCE PB 131632 8 58 SOVIET BLOC INTERNATIONAL GEOPHYSICAL YEAR INFOR Ionospheric Perturbations Classified by Soviet Scientist Ionospheric perturbations according to the data on the middle-latitude stations (Leningrad, Moscow, Sverdlovsk, Irkutsk) and Alma-Ata) are discussed by N.V. Mednikova. According to an abstract of her article "Ionospheric Perturbations in the Middle Latitudes," in Fizika Korpuskulyarnykh Potokov i ikh Vozdeystriye na Verkhnyuyu Atmosfery Zemli (Physics of Solar Corpuscular Flows and their Effect on the Upper Atmosphere of the Earth), Academy of Sciences USSR, 1957, pp 183-244, 245, Mednikova presents a classification of disturbances by different types in relation to the symbol and value of variations of the critical frequency of F2 (f F2) from the sliding median values ( $\Delta$  pert. f F2) FORM NO. 1 NOV 54 329a (20) -6022758 2 9 DEC 1958 Official Use Only 2-2 642 CODE COUNTRY CODE . P. S. LOCATION INDUSTRIAL CATEGORY CODES 438 491 1131 IRKUTSK USSR DATE/INFO REMARKS DATE/SOURCE EVAL. MN. & NO. DA. MO. YR. DA. NO. YR. CIA NO. AND SOURCE SUMMARY OF WORLD BROADCASTS, BBC 22 9 58 Printing chronometers have been dispatched to Irkutsk and Barnaul from the Leningrad electric-clock works. These new instruments can measure time with an accuracy of the 5,000th part of a second. Since they register the time simultaneously with calculating it they can be used for astronomical purposes. Already 115 instruments have been made for the USSR Acadamy of Sciences. (Moscow 19.30, 10.9.58) SG1A

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70-2-1 1 www. \$-\$-W 1 22 Approved For Release 2001/03/26 : CIA-RDR96400787 R000500180084-3 14.01 24 -AUTHOR: TITIE: Meeting of Seismological Section of the Ac.Sc.USSR 22 MAR 1960 WJR (Sessiya soveta po seysmologii AN SSSR po voprosam seysmicheskogo rayonirovaniya) PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1958, Nr 8, pp 1054 - 1056 (USSR) ABSTRACT: The meeting took place on March 20 - 26, 1958, in Moscow, About 150 members from various districts of the USSR were present. Over 30 papers were read. S.V. Medvedev (Institut fiziki Zemli AN SSSR - Institute of Terrestrial Physics Ac.S. USSR) described the modern trends in seismic divisions in Russia and abroad. He listed the main drawbacks of the present division maps of the USSR prepared in 1957 and suggested ways of improvement. B.A. Petrushevskiy (Institute of Terrestrial Physics, Ac.Sc.USSR) read the paper about the relation between the earthquakes of maximum intensity and geological conditions. The author was working on seismic properties of both the Asian alpine and the Asian plateau regions, including those of the Paleozoic base. He observed that Card1/10 the regions of plateaux have considerably stronger Meeting of Seismological Sections of the Ac.Sc.USSR on the Question of Seismic Division into Districts earthquakes in comparison with the alpine ones, with a far greater number of earthquakes in the latter. The cause of this phenomenon could be the difference in strength of the materials between these two kinds of regions. Yu.V. Riznichenko and I.L. Nersesov (as above) described a numerical method of seismic division into districts. Their hypothesis was based on a relation between the number of the earthquakes of various intensities as estimated from literature and found experimentally by the Tajik seismic expedition of the Institute. The authors showed a close correlation of the number of earthquakes and their intensities for various regions. They introduced a method where the seismic characteristics are expressed by means of correlation graphs. The frequency of weak earthquakes could be employed in order to predict the major A mathematical calculation for determination of the ones. various data was given. N.A. Vvedenskaya (as above) stated in her report that, according to experimentation carried out in Central according to experimentation carried out in Central Asia, the distribution of the weak earthquakes does not Card2/10 SOV/49-58-8-17/17 Meeting of Seismological Sections of the Ac.Sc.USSR on the Question of Seismic Division into Districts correlate with the earlier earthquakes of maximum intensity. It is possible, however, to draw a boundary enclosing the strong, early earthquakes as determined from the observations of the weak ones. A.Z. Kats (as above) referred to the physical basis of separating small areas (micro-division). The relation of the intensity of oscillation at the surface of sedimentary layers to that of the crystallic base could be explained not so much by the physical properties of the rocks but by the resonant properties of the layers. The theoretical calculations of these properties agree very well with the data obtained from both the weak earthquakes and the general observations of the provisional scismic stations. For the better seismic differentiations. the author suggests considering the seismic deformations rather than the amplitude of oscillations. A calculation of the dislocation at the surface of a layer as related to its resonant properties, with consideration Afrequencing of the seismic energy in the interior of the laye: Approved For Release 2001/03/26: CHARDED6-00787R000500130084-3

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> V.V. Popov (Voyenno-inzhenernaya akademiya - <u>Military</u> Engineering Academy) gave a summary of the geological and engineering investigations which should precede construction of a map for a small area. As an example, he showed the procedure in micro-dividing A.N. Safaryan (Institut stroitel'nogo dela AN Gruzinskoy SSR - Institute of Construction Ac.Sc. Georgian SSR) described a method of micro-dividing carried out on the areas where large hydro-technical constructions in the Caucasus and Central Asia were erected. He stressed th need of preserving the documentation of the old, major earth-He stressed the

I.V. Sukhov (Moldavskiy filial AN SSSR - Moldavian Branch of the Ac.Sc. USSR) gave a short description of the geological Uard4/10

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structure of the eastern slopes of the Eastern Carpathian Mountains and indicated the possibility of the isoseismics of the Carpathian earthquakes running across the structural line of the South Bessarabian Range., which was established recently in the course of drilling oilwells. On the eviden of this and other observations made by the author during On the evidence the earth quake in 1940, adjustments were made in the seismic divisions of Moldavia with the transfer of part of the Kishinev area into the eight-mark region. Ye.I. Byus and A.D. Tskhakay (<u>Institute of Geophysics of</u> <u>the Ac.Sc. Georgian SSR</u>) showed how the Caucasus region is divided seismologically as a result of the extensive seismic observations carried out on its Russian side.

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V.A. Rastvorova and D.N. Rustanovich (Institute of Terrestrial Physics Ac.Sc.USSR) gave an account of the

Institute's expedition to Krasnaya Polyana region where seismic and tectonic structure of the southern slopes of the West Caucasus Mountains (between Sochi and Sukhumi) were investigated.

I.V. Kirillova and A.A. Sorskty (<u>Institute of Terrestrial</u> <u>Physics, Ac.Sc.USSR</u>) presented a map of seismic divisions of Caucasus in 1:1 000 000 scale and described the method of its compilation - also a map in 1:200 000 scale of West Turkmenia was described by I.A. Rezanov, V.A. Rastvorova and N.N. Leonov (as above). S.V. Puchkov (as above) told about the geological differe-

ntiation of the Ashkhabad earthquake area, based on the seismic observations of the provisional stations. N.P. Kostenko (Geologicheskiy fakul'tet Moskovskogo Universiteta - Geological Faculty of Moscow University)

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(ye) intensity of these movements. V.I. Bune (Institut seysmologii AN Tadzhikskoy SSR -Institute of Seismology of the Ac.Sc.Tajik SSK) and S.A. Zakharov (Institut geologii AN Tadzhikskoy SSR - Institute of Geology of the Ac.Sc. Tajik SSR) gave an account of the seismic observations in connection with the work on the hydro-technical construction on the River They also reviewed some of the seismic data Vakhsh. obtained from the instrumental measurements of the Stalinabad area. A.T. Kon'kov (Seysmicheskaya stantsiya "Andizhan" -Seismic Station "Andizhan") gave a seismic history of the Fergana Valley with an emphasis on the periodic character of the major earthquakes in that region and the apparent migration down the Fergana break of their pl. focus. Yu.V. Fesenko (Seismic Station "Naryn") presented some details of several strong earthquakes in Central Kirgizia. V.K. Iodko (Seismic Station "Namangan") described a Card7/10 continued SOV/49-58-8-17/17 Meeting of Seismological Sections of the Ac.Sc.USSR on the Question of Seismic Division into Districts

method of collecting the macro-seismic data of earthquakes and stressed the importance of the extensive collection of the non-destructive earthquake data. (11)

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of the non-destructive earthquake data. N.A. Florensov, A.A. Tres kov and V.P. Solonenko (Vostochno-Sibirskiy filial AN SSSR - East-Siberian Branch of the Ac.Sc.USSR) gave a short account of their project of the seismic divisions of East Siberia. The greatest part of Zabaykal'e region, together with the area of Muya earthquake in 1957 they included into the eighth-marked region.

N.M. Organova (Dal'nevostochnyy filial AN SSSR - Far East Branch of the Ac.Sc.USSR) outlined a project of seismic divisions of the peninsula Trudnyy.

G.D. Panasenko (Kol'skiy filial AN SSSR - Kola Branch of the Ac.Sc.USSR) referred to the tectonic interpretation of the seismic phenomena of the Kola Peninsula M.D. Ferchev (Sakhalinskiy kompleksnyy nauchno-issledovatel'-

skiy institut AN SSSR - Sakhalin Research Institute, of the Ac.Sc.USSR) described the project of seismic and tectonic Card8/10 divisions of Sakhalin.

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> G.P. Gorshkov (Geological Department of Moscow University) spoke of the desirability of the work on seismic divisions on the territories adjacent to the USSR. I.V. Kirildova presented a composite chart of the seismic conditions of Caucasus, Turkey and Western Urals. G.N. Korostin (Institut fiziki i geofiziki AN Turkmenskoy SSR - Institute of Physics and Geophysics of the Turkmenian SSR) described an accellograph, a device for recording the acceleration of strong earthquakes. M.P. Barshteyn (Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva

> i arkhitektury SSSR - Central Research Institute of Construction and Architecture Academy USSR) told of an application of the probability method in dynamic computation of the seismic effect on constructions. A.G. Nazarov (Ac.Sc. Armenian SSR) spoke on an application of the comparison method for the experimentation on the seismic condition of constructions.

Two papers were received by post: M.M. Rubinshteyn (Geological Institute Ac.Sc.Georgian SSR) Card9/10 on "Geological Data for the Seismic Divisions of Georgia"

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Ye.P. Denisov and A.M. Smirnov (Far East Branch of the Ac.Sc.USSR) on "The Latest Slow Movements of the South Coast and the Adjacent Areas". About 20 members took part in the discussions, the main

subject of which was the necessity of continuation of work on the seismic divisions. Some minor scientific reports. were also announced.

The detailed account of the meeting will be published in the Bulletin of Seismorogy.

A talk on the results of a preliminary inspection of the epicentral region of the Gobi-Altay (Mongolia) earthquake on December 4, 1957, was given by A.A. Treskov, N.A. Florensov and V.P. Solonenko. The discussion on some administrative matters concluded the meeting.

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#### Main Geophysical Observatory at the Beginning of the IGY

N. P. Rusin, chief of the Methods Division of the Main Geophysical Observatory imeni Voyeykov, discusses the activity at the observatory at the time of the opening of the IGY as follows.

SOURCE:

(Znaniye-Sila, No 9, Sep 57, p 24)

Before the official opening of the IGY, associates of eight <u>stations</u> <u>conducting observations on atmospheric electricity met</u> in Leningrad. Some of these stations, Murmansk, Leningrad, <u>Kiev</u>, and Odessa, are located along a meridian, and others, Sverdlovsk, <u>(Irkutsk</u>), Tashkent, and Yuzhno-Sakhalin, <u>deployed in a latitude direction</u>. In Leningrad, the associates of these stations received new and unique instruments especially made for the IGY

and learned how to use them. These instruments permit not only the measurement of the intensity of the electrical field of clouds, but also the recording of the number of electrical charges in a cloud, the determination of the time numberval between discharges during which the charge is built up again in the cloud and a flash of lightning occurs.