







Ministrii, f. F.

Nikol'Skiy, A. F. "The dual nature of ragnetic disturbances at hid. latitudes", Froblemy Arktiki, 1942, No. 2, p. 47-63, Bibliog: 21 items.

50: U-2068, 12 Feb. 53, (Letopin' Zhurnel Inyth Statey, No. 1, 1949).





NIKOL SKIY	FD-2900 lcs - Magnetic field of USSR
Ca. d 1/2	Pub. 45 - 11/11
Author	: Nikol'skiy, A. (reviewer)
Title	: Handbook on the variable magnetic field of the USSR
Periodical	: Izv. AN SSSR, Ser. geofiz., Nov-Dec 1955, 561-565 : Review of Spravochnik po peremernomy magnitnomu polyu SSSR, of 268 : Review of Spravochnik in 600 copies by the Hydrometeorological Press
Abstract	: Review of Spravochnik po peremernomy magnithomi polyd Sock) of Press pages, published 1954 in 600 copies by the Hydrometeorological Press for 16.30 rubles. The material of the handbook is given tabular form (112 tables) and also in the form of graphs (95 graphs), which give information on the variable magnetic field in all regions of the USSR, information on the variable magnetic field in the arctic) and covering the data of 18 active magnetic observatories (12 of which disposed in the middle latitudes and 6 in the Arctic) and covering the period from 1938 to 1948. It was compiled by scientific associates of the Scientific Research Institute of Terrestrial Magnetism under the editorship of V. I. Afanas'yeva, and is valuable both for theo- retical investigations in geophysics and also for practical engineers working the field of geological prospecting by magnetic methods. The reviewer notes that the variableness of the Earth's magnetic field is due mainly to the action of the Sun. In the main this handbook is necessary for investigators of physical phenomena occurring in the

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Card 2/2		FD-2900
lbstract	:	upper layers of the Earth's atmosphere at a height of 80-100 km and higher; e.g. normal and abnormal ionization, polar lights, magnetic disturbances, etc., radio wave propagation, etc.
Institution	:	-
Submitted	•	•



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HIROL'SKIY, A.F.

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Geneering M.P.Ben'keva's and M.G. Boriseva's article "Index K according to data of the Parlevskii Magnetic Observatory for 1916-1939." Trudy HIIZA no.11:111-118 (55. (NLMA 9:8) (Magnetica, Terrestrial)

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AUTHOR .	PA - 2241 MIKOL'SKIY, A.P
TITLE	MIKOL'SKIY, A.P. On the geographic Distribution of Radio Blackouts in Migh Latitudes.
	(X voprosu 6 geograficheskom representation
	anomal'nogo poglosnoneniya iaulo yalila Wr A. pp 628-631 (U.S.S.R.)
PERIODICAL	Doklady Akademii Mank SSSR, 1957, Volter, M. 4977 Reviewed 5/1957 Received 4/1957
ABSTRAOT	The occurrance of these absorptions and disturbances. This fact
Thologor	the simultaneous occurrance of magnetic at these absorptions is the
	allowed the assumption that the inter layers of the atmo-
	penetrating of solar particles into the upper investigated hitherto only sphere of the earth. One of the problems investigated hitherto only
	sphere of the earth. One of the problems investig maximum (in the little concerns the dependence of the time of the maximum (in the
	daily course of the probability much share have been found
	on the geographical althattatt balf of the day. Some previous
	mostly to occur during the line incussed in short. works bearing on the matter are discussed in short.
	The author believes it best to broken a distribution of absorp-
	the ignediate maximum on the curve of ant this. Attable con-
	tion-probability. The author also carried out this same relative to tains these moments relative to local time and the same relative to
	tains these moments relative to local time and the third which occurs Greenwich-time. The maximum of absorption-probability (which occurs
	during the first hall of the day the start a mette disturbances. for
	during the first half of the day) agrees well with the turbances, for occurrance of the maximum of matitutinal magnetic disturbances, for those ionosphere-stations for which data concerning magnetic activity
	those ionosphere-stations for which the the
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AUTHOR	PA - 2251 KIKOL'SKIY, A.P. On the geographic Distribution of magnetic Disturbances in the Ant- arctic (K voprosu o geograficheskom raspredelenii magnitnykh wosmushchenyy v antarktike). vosmushchenyy v antarktike). (Kikol'Skiy, A.P. PA - 2251 Interpretent of the Ant- PA - 2251 Interpretent of the Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Not the geographic Distribution of magnetic Disturbances in the Ant- Not the geographic Distribution of magnetic Distribution of magne	
PERIODICAL	Doklady Akademii Maur Basa, Vy/1900 Reviewed 4/1971	
ABSTRAGT	It would be of interest to verify to what extent the fulle unbanded ing the geographic distribution of metudicalHeagnetic disturbances (such as are encountered in arctic regions) apply also in the ant- (such as are encountered in arctic regions) apply also in the intinal arctis. If the isolines of the simultaneous occurrence of metutinal magnetic disturbance in arctic regions have the shape of spirals, magnetic disturbance in arctic regions have the shape of spirals, which wind themselves out of the pole of homogeneous magnetisation which wind themselves out of the pole of homogeneous magnetisation regions must emerge from the pole in the opposite direction. Certain regions are now to be made concerning the rules possibly gevern- assumptions are now to be made concerning the rules possibly gevern- ing magnetic disturbances in the unerplored antarctic regions the ing magnetic disturbances in the unerplored antarctic regions the secouracy of which could be verified by observations made in connec- tion with the coming geophysical year. The system of spirals moving in an anticlockwise direction is here plotted in the antarctic in such a manner that the point of the homogeneous magnetization of the system of spirals agrees with the pole of the homogeneous magneti- ration of the antarctic. Furthermore, the system of spirals is turned in such a manner that it agrees best with the observed data. If the in such a manner that it agrees best with the observed data. If the in such a manner that it agrees best with the observed data. If the	
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action of Ionospheric anglevic Storm	リハロレ 'ちイ	
 ances and Aurorae (0 planetarnom respredelenii magnituo- ionosfernykh vozmush chemiy i polyarnykh siyaniy) PERIODICAL Doklady Akudemii Nauk SSSR, 1957, Vol. 115, Nr 1, pp. 84 - 87 (USSR) ABSTRACT The author finds out the possible location of the four Störmer's zones with increased penetration of protons into the terrestrial zones with increased penetration of protons into the terrestrial statesphere in which an increased intensity of the magnetic ionospheric disturbances as well as of aurorae are to be observed. The author starts from the known facts on the geographic distribution of these phenomena. An analysis of the isochronous curves of the maximum of magnetic disturbances speaks in favour of the fact that on the Western hemisphere the protons can advance to a latitude of 40°. From 8 - 12 o'clook (worldtime) favourable conditions for the advance of protons may even exist to equatorial areas of the earth. The author points at experimental data in favour of this unerpected consequence. The exact investigation of the experimental data on magnetic ionosperic disturbances 	AUTHOR	Nikol'skiy, A.P.
(USSR) ABSTRACT The author finds out the possible location of the four Störmer's somes with increased penetration of protons into the terrestrial somes with increased penetration of protons into the terrestrial atmosphere in which an increased intensity of the magnetic iono- atmosphere in which an increased intensity of the magnetic iono- spheric disturbances as well as of aurorae are to be observed. The author starts from the known facts on the geographic distribu- The author starts from the known facts on the geographic distribu- The author starts from the known facts on the geographic distribu- tion of these phenomena. An analysis of the isochronous curves of the maximum of magnetic disturbances speaks in favour of the fact that on the Western hemisphere the protons can advance to a lati- tude of 40°. From 8 - 12 o'clook (worldtime) favourable condi- tions for the advance of protons may even exist to equatorial tions for the advance of protons may even exist to equatorial areas of the earth. The author points at experimental data in favour of this unexpected consequence. The exact investigation of the experimental data on magnetic ionosperic disturbances of the experimental data on magnetic ionosperic disturbances	TITLE	ences and Auroras (O planeternom raspredelenii gegnitno- ionosfernykh vozaush cheniy
somes with increased percentered intensity of the magnetic inde- atmosphere in which an increased intensity of the magnetic inde- spheric disturbances as well as of surgray are to be observed. The author starts from the known facts on the geographic distribu- tion of these phenomena. An analysis of the isochronous curves of the maximum of magnetic disturbances speaks in favour of the fact the maximum of magnetic disturbances speaks in favour of the fact that on the Western hemisphere the protons can advance to a lati- that on the Western hemisphere the protons can advance to a lati- tude of 40°. From 8 - 12 o'clock (worldtime) favourable condi- tions for the advance of protons may even exist to equatorial areas of the earth. The author points at experimental data in favour of this unexpected consequence. The exact investigation favour of the unexpected consequence. The exact investigation of the experimental data on magnetic ionosperic disturbances	PERIODICAL	(USSR) the four Störmer's
	ABSTRACT	zones with increased performance intensity of the magnetic inco- atmosphere in which an increased intensity of the magnetic inco- spheric disturbances as well as of surgray are to be observed. The author starts from the known facts on the geographic distribu- tion of these phenomena. An analysis of the isochronous curves of the maximum of magnetic disturbances speaks in favour of the fact that on the Western hemisphere the protons can advance to a lati- tude of 40°. From 8 - 12 o'clook (worldtime) favourable condi- tions for the advance of protons may even exist to equatorial areas of the earth. The author points at experimental data in favour of this unexpected consequence. The exact investigation
	Card 1/2	made it possible to outline in lites appear

NIKOL'SKIY, A.P.

Diurnal distribution of irregular magnetic disturbances at highlatitude stations of the vestern and eastern hemispheres. Geomag. (MIRA 17:11) 1 aer. 4 no. 5: 968-971 3-0 164.

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.



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Translation	from: Referativnyy	zhurnal, Geofizik	a, 1960, No. 7, F	. 209, # 8495		
AUTHOR:	Nikol'skiy, A.P.		r			
TITLE	Magnetic Disturban	ces in the Aratic	Circumpolar Regio	n		
	V sb.: Probl. Sev	era, No. 1, Moscow	, AN SSSR, 1958,	pp. 116-132		
$(\pm 2 \text{ hours})$ are most in the magneti the designa of the geog	A large number of sturbances at all sta . The nightly magnet tense. The instants c activity vary for t tions "morning" and " graphic distribution wed also the conclusion of magnetic disturbance	ations of the globe ic disturbances in of occurrence of m the various station daily ⁿ are condition the magnetic dis ion that a second i	the zone of <u>file</u> the zone of <u>file</u> crning and daily is in wide limits; cnal. Analyzing turbances in the internal zone of e	r aurorae ir maxima of therefore, the features circumpolar mhanced	X	
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FIEOL'SEIT, A.P.

Fiendl distribution of active perieds of megnetic disturbances
in high latitudes. Magne-iomsf. voss. no.1:7-11 '59.
(MIRA 13:1)
(Magnetic storms)



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UTEOE:	SOV/20-127-1-21/65
PITLE:	Solar Protons as the Cause of Matinal- and Mocturnal Magneti: Perturbations in High Latitudes (Solnechnyye protony kak prichina utrennikh i nochnykh magnitnykh vozmushcheniy v vysokikh shirotakh)
PERIODICAL:	Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 1, pp 82 - 85 (USSR)
ABSTRACT: Card 1/4	As a result of the investigations carried out in antarctic re- gions from 1958 to 1948, the author discovered new facts and laws for these phenomena, and he also undertook several attempts at explaining their nature. Because of the extended knowledge now available concerning magnetic perturbations in high latitu- des, some of the conclusions arrived at at that time as well as some of the explanations given must now be revised from a new point of view. The author first gives a report on his earlier assumptions. Later investigations, which were based on a volu- minous observation material and on a large number of stations, permitted new conclusions to be drawn with respect to the na- ture of magnetic perturbations in high latitudes. It was shown in this connection that the isochronous curves of the matinal

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Solar Protons as the Cause of Matinal- and Mocturnal SOV/20-127-1-21/65 Magnetic Perturbations in High Latitudes

maximum of magnetic perturbations consist of spirals emerging from the pole of homogeneous magnetization and rotating glockwise. The author believes that the Stoermer particles coming from the sun descend along this spiral. In this case, the matinal perturbations must be caused by protons. At present, certain experiments are being carried out with a view of reviving the Birkeland-Stoermer theory of polar currents and zagnetic phenomena. By the direct observation of the matinal zaximum of magnetic perturbations the author was able to follow the spirals in the longitudinal direction only over a limited stretch of the order of 180°. From Stoermer's theory it follows for terrestrial conditions that the actual spiral of the descent of protons in arctic regions extends to 360°. According to Stoermer's theory, the spiral of the descent of charged particles (among them also protons) in arctic regions contains domains in which the trajectories of the protons are contensed. These domains are concentrated for 15; 20; 02 and 08 o'clock of local geomagnetic time, and are here described as the domains A, B, C, D. The nocturnal maximum of magnetic perturbations is produced by the sum of the effects of Stoermer's zones B

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Solar Protons as the Cause of Matinal- and Nocturnal SOV/20-127-1-21/65 Magnetic Perturbations in High Latitudes

and C. If this is correct, both matinal- and the nocturnal magnetic perturbations are the result of the fact that protons slone penetrate into the upper somes of the terrestrial stacsphere. However, this conclusion is in contradiction to the author's assumption that matinal- and nocturnal perturbations are caused by particles of various signs (i.e. by electrons and protons). Without removing this contradiction, it was not possible to give a more exact interpretation of the observed facts. By analysis of the conclusions arrived at on the basis of Stoermer's theory, it is possible to eliminate this contradiction. According to a formula developed by Stoermer, the angular distance of the deviation of the spiral from the pole depends especially also on the velocity of the corpuscles. With increasing the average velocity of the protons contained in the proton flux, the spiral as a whole shifts toward South and Southeast. The shifting of the nocturnal maximum towards an earlier time of the day may also be explained by great storms, if it is assumed that also the nocturnal maximum is due to protons, and that it is located on the spiral of their descent. Further details are mentioned. According to the results obtained by the present paper,

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	it is necessary to take Stoermer's theory into account to a considerable extent for the purpose of explaining the origin of magnetic perturbations in high latitudes. There are 2 figures and 12 references, 6 of which are Soviet.
ASSOCIATION:	Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut (Arotic- and Antarctic Scientific Research Institute)
PRESENTED:	February 4, 1959, by V. V. Shuleykin, Academician
SUBMITTED:	February 4, 1959
Card 4/4	





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000/007/084/104 A006/A101

1410 Nikol'skiy, A.P. 6.11.12R:

TITLE:

On the problem of the geographical distribution of aurora polaria in the Arctic

FERIODICAL:

Referativnyy zhurnal. Geofizika, no. 7, 1961, 34, abstract 70243 (V sb. "Issled. polyarm. siyaniy, no. 4", Moscow, AN SSSR, 1960, 14-19, English summary)

On the basis of contemporary data on the geographical distribution of aurora polaris and magnetic disturbances, the author considers that neither the Pritz nor the Vestayn zone can be regarded as fully real, since they were both plotted on the basis of non-equivalent and incompatible observation data. In some high-latitude regions of the northern hemisphere the isochasms are plotted by taking into account the appearance of both nocturnal and early aurora. (north-eastern Canada and southern Greenland regions), whereas for other regions (Eurasi. only nightfall and nocturnal polar auroras were taken into account, On the basis of an analysis of observations carried out in the Central Arctic by Soviet air expeditions and the drifting stations "North Pole" during 1948 - 1955,

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CIA-RDP86-00513R001137

1121日日日 第二日 11日 27420 S/169/61/000/007/087/104 A006/A101 3,1810 Nikol'skiy, A.P. AUTHOR: On the location of the zone of Aurora polaris in the Antarctic TITLE: PERIODICAL: Referativnyy zhurnal. Geofizika, no. 7, 1961, 35, abstract 70246 ("Inform. byul. Sov. antarkt. ekspeditati", 1960, no. 24, 38 - 41) A A review of studies published by a number of authors who attempted TEXT: to determine the location zones of auroras polaris in the Antarctic, indicates that the Antarctic zone is probably situated over the southern geographical pole, i.e. sharply asymmetrically in respect to the zone of auroras polaris in the Arctic. This asymmetry is difficult to explain merely by the difference in the structure of the magnetic field of the Earth. Such a discrepancy may also be emlitted otherwise, if, contrarily, one starts from the symmetry in the run of purera polaris and magnetic disturbance phenomena, caused by the intrusion of solar corpuscies, in the Arctic and Antarctic. Based on an analysis of magnetic disturbances in the Arctic, the author advances the hypothesis that in the circumpelar region of the Arctic there is a second zone with a raised frequency ani intensity of magnetic disturbances and auroras polaris. This assumed second zone Cari 1/2

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	also 1041, 1046)	S/169/61/000/002/021/039 A005/A001	
renslation	from: Referativnyy zhurnal, Geo	fizika, 1961, No. 2, p. 39, # 20281	
UTHOR	Nikol'skiy, A. P.		
ITLE:	On the Global Distribution of M	agnetic-Ionospheric Disturbances	
ERIODICAL:			
agnetic dis he morning community of pposite dir ecause thes orpusoles p y high abso	sturbances are verified by the sta magnetic disturbances in the Anta regularities in the arctic and rection of evolution of the helica is helicas represent the projection	udy of geographical distribution of srotic region. It is concluded on the antarotic disturbances and on the es - isochrones of disturbance maximum ons of trajectories of the solar sphere, the distribution of anomalous-	×
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Translation	from: Re	ferativnyy z	hurnal,	Geofizika,	1961, No.	2, p. 3	, # 2017		
AUTHOR	Nikol'sk	iy, A. P.							
TITLE:	Some Pro	blems in the	Methods	of Invest	gation of	Magneti	o Distur	bance	
PERIODICAL:	"Tr. Ark	t. 1 Antarkt	. n1.	in-ta", 190	60, Vol. 2	23, pp.	150-171		
variations)	or the ph	na: he cons	iders th	e field of	the Sn- a	ind D _{et} -V	ariation		
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a summary fi ly. The post considered. geophysical of the pheno mathematical	leid of a ssibility It is po data to i omenon get 1 methods.	of applicati inted out th nvestigate (lost in the in particul	ion of th ist it is wery time averaging ist of the	e statisti necessary the prob ng process harmonic	al method for stati lem, wheth . The app al analysi	is to ged latical d ler essen plicabili is, to th	physics veraging tial asp ty of the invest	is ; of ects ; ;iga-	ł

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S/169/62/000/C06/083/093 D228/D304

AUTHOR: Nikol'skiy, A. P.

TITLE: Position of the second auroral zone and the relation of morning radiances to magnetic disturbances

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 24, abstract 66140 (V sb. Polyarn. siyaniya i svecheniye nochn. neba, no. 7, M., AN SSSR, 1961, 37-42)

TEXT: The suggestion that there is a second zone of auroras and magnetic disturbances was expressed by the author (RZhGeofiz, no. 4, 1957, 3661) on the grounds of the analysis of the course of magnetic disturbances at high-latitude stations. In the present article the author cites certain data of a number of research workers, which may serve as further proof for the possibility that there is a second zone. 16 references. [Abstracter's note: Complete trans-

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39102 5/169/62/000/006/085/093 D228/D304 3.1810 3.9120 Causes of the asymmetry in the position of the auro-Nikol'skiy, A. P. AUTHOR: ral zone in the Arctic and the Antarctic PERIODICAL: Actorativnyy zhurnal, Georizika, no. 6, 1962, 25, ab-stract 66142 (V sb. Polyarn. siyaniya i svecheniye nochn. neba, no. 7, M., AN SUBR, 1961, 61-64) TAXT: The IGY's problem included the task of determining the location of the zone of the maximum frequency and intensity of auroras in Antarctica. It was previously noted that the Antarctic auroral zone has an evident tendency to pass through the geograwhice pole. Such a disposition for the auroral zons in Antarctica DIE DUE. DUEN A DISPUSITION FOR THE ABFORME ZONS IN ANOMFORIDA differs abruptly from the Arctic zone's position, which is at pre-sent known from more extensive and reliable data. It is difficult to recognize that this asymmetry is explained by the actual curt to recognize that this asymmetry is explained by the actual asymmetry of the earth's magnetic field. This difference can be explained in another way if one proceeds from the conviction that Card 1/3 and the second second second

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Causes of the asymmetry ...

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the morning observations. In other words, the auroral zone found for Antarctica may actually consist of the segments of two zones: the second (inner) zone, associated with morning radiances, and the first (normal) zone, associated with night radiances. The dis-position of the Antarctic stations during the IGY, like that for the stations operating there previously, was evidently such that the effect of the existence of two different zones for morning and night radiances was displayed especially strongly. [Abstracter's note: Complete translation. 7

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NIKOL'SKIY, A.P.

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Experimental evidence for the existence of a second some of magnetic disturbances in the eastern Arctic. Geomag. 1 aer.1 no.61959-964 N-D '61. (MINA 15:2)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. (Arctic regions-Magnetiam, Terrestrial)

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LLL55 8/203/62/002/006/012/020 A160/A101

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AUTHOR: Nikol'skiy, A. F.

TITLE

E HERITAR

A comparison of the magnetic disturbance in high latitudes with

Störmer's theory

PERIODICAL: Geomagnetizm i aeronomiya, v. 2, no. 6, 1962, 1122 - 1125

TEXT: The author investigates the data on the magnetic disturbance at the Chelyuskin Cape, $C\Pi$ -4 (SP-4) and SP-6 stations, and compares these data with Störmer's theory. It is shown that the average interval length of the increased values of magnetic disturbance is 6 to 8 hours. The spatial-time distribution of irregular magnetic disturbances in the Arctic is satisfactorily explained on the basis of Störmer's theory in a number of respects. It was determined that the most typical form of a diurnal variation of the magnetic disturbance in high latitudes is a curve with three maximat a morning, an evening and a night maximum. Pigure 1, 1 presents data of the Chelyuskin station, and Pigure 1, 2 - of the SP-6 station for summer 1957. During this period, the SP-6 station was almost on the same geomagnetic latitude as the Chelyuskin one, but 60° east from

Card. 1/4

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 A comparison of the magnetic disturbance in... 8/203/62/002/006/012/020 A160/A101 and the conclusions of Störmer's theory prove that it is possible to use it for qualitative explanations of some aspects of this phenomenon. Störmer's theory should be further developed on the basis of data of the processes in outer space, and the obtained data have to be checked with data of other similar stations. ASSOCIATION: Arkticheskly i antarkticheskly nauchno-issledovatel'sai; institut (Arctic and Antarctic Scientific Research Institute) SUBJUTTED: June 23, 1962 Card 3/4 ,

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45215 8/203/63/003/001/013/022 A061/A126

Nikoliskiy, A. P.

TITLE

AUTHORI

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Characteristics of the daily distribution of irregular magnetic disturbances between the geomagnetic and geographic poles in Arctica

PERIODICAL: Geomagnatizm i seronomiya, v. 3, no. 1, 1963, 104 - 112

TEXT: The data of the drifting stations $C\Pi-3$ (SP-3) and $C\Pi-7$ (SP-7), which were between the geomagnetic and geographic poles during (SP-7), which were between the geomagnetic and geographic poles during 10 menths in 1954 - 1955 and during 7 months in 1958 - 1959, were examined. The daily course of the magnetic activity, estimated by changes of the The daily course of the magnetic activity, estimated by changes of the disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; disturbance vector in the horizontal plane, has four maxima (9.3; 3.8; should be maxima differs in different months. The good agreement beshould be tween the observations described and those made at Alert station and at Port Konger. In accordance with C. Störmer (The Polar

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NIKOL'SKIT, A.P.; OL', A.I.

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Comments on V.M. Mishin and I.A. Zhulin's article "Some problems of magnetic activity. Part 1." Geomag. 1 aer. 3 no.21370-373. Mr-Ap '63. (MIRA 1712)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

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A	UTHOR: Nikol's	kiy, A. P.; Kord	onskiy, G. A	6 ,		t i
T	ITLE: Effect of	the distance betwee rescent x-ray spe	een the x-ray ctrometers	tube and the	specimen upon the	
	OURCE: Priber	v* i tekhnika eksp	erimenta, no	. 3, 1964, 1	68-169	
		ectrometer, x ra	y spectromete	er, fluoresco	ent spectronmeet	4 4
A b b	BSTRACT: Exp etween the exit be varied within spectrometer if	periments on an op window of a BKhV 10-50 mm withou the angle of fluore bot an exact simula	ptical simulat -6 x-ray tube t impairment scence collec ator insofar a	or establish and a 30×1 to the sensi- tion is varie as the x-ray	ed that the distance 8-mm specimen ca tivity of a fluoresc ed correspondingly tube anode radiatio	• n is
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ACCUSSION NRI AP4046298	\$/0203	/64/004/065/0	968/0971		
ACTEDRE HIROI'SKIY, A. P.			,2	9 	
TITLE: Un the daily distribution	of irregular	magnatic dis	turbances	Ĕ	_
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»CE Gebonegietism i serocomiy/	ι, ν. ά, πο.	5, 1964, 968-	971		
TAGS: irregular magnetic di	storbance, m	agnetogram, g	comagneti	C E	
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a, ridar reflection, magnetic	setlvit - geo	sagnetic time	I		
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of Canadian atations is bade. Spe	cial actonts	on is paid to	the Cane	🗝 Polizzaria 🛔 🛔	
set station Churchill, where the	maxima and t	heir changes	are not	1	
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ACCESSION NR: AP4038782

E/0048/64/028/005/0677/0679

AUTHOR: Nikol'skiy, A.P.

TITLE: Some formulas for calculating the intensity of fluorescence excited by a polychromatic x-ray beam /Report, Seventh Conference on X-Ray Spectroscopy held in Yerevan 23 Sep to 1 Oct 1963/

SOURCE: AN SSSR. Investign. Seriga finicheskaya, v.28, no.5, 1964, 677-679

TOPIC TAGS: K-ray excitation, fluorescence integral

ABSTRACT: The evaluation of the "fluorescence integral"

$$\Phi = \sum_{k=1}^{\infty} \frac{\lambda^{2} (\lambda - \lambda_{0})}{\lambda^{2} + \kappa} [1 - e^{-\Delta C (\lambda^{2} + \kappa)}] e^{-\Delta C \lambda^{2}} d\lambda_{y}$$

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in which the exponential factors take account of the finite thickness of the sample and the absorption of the primary beam by the x-ray tube window, was approximately reduced to the evaluation of tabulated exponential integrals. No details of the reduction are given, except to say that the "quadratic integral approximation" (B. I. Demidovich, I.A. Maron, E.E. Shuvaleva, Chislenny" ye metody® analiza.Firmatgiz.K.1982) was employed. The error is reasonably small (<10%) for K lines of elements with

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which is according than photon flux, then neither expo ts expression in this case an appr tion that the app	will to the will appropria is, however, mential factor terms of the coximation is propriate mean	not adequate for Ly lines of elemintegral obtained by dividing the integral obtained by dividing the te when the intensity is defined a sufficiently accurate even for the r need be considered, the integral logarithm and the inverse tangent given based on the theorem of the is the arithmetic mean of the lin	o integrand by λ , and as energy flux rather he heavy elements. I is elementary, but t is involved. For mean and the assump-
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ACC NR. AP5027009 SOURCE CODE: UR/0120/65/000/005/0071/0073	
AUTHOR: Klyukvina, Ye. F.; Chaykovskiy, V. G.; Kikol'skiy, A. P.; Yevlanov, I. Ya.	
ORG: none	
TITLE: Construction and technical characteristics of a proportional counter	
SOURCE: Pribory i tekhnika eksperimenta Dno. 5, 1965, 71-73	
TOPIC TAGS: gas discharge counter, proportional counter	
ABSTRACT: A proportional counter designed for detection of 1-10-kev x-radiation is described. To meet the requirement of a large-area input aperture of minimum thick- ness, the design contains a cathode equipped with two 10- μ Al film apertures 25 x 16 mm each. To reduce attenuation of fluorescent radiation by the surrounding air, the counter itself is placed in a vacuum while the remainder of the unit is subjected to normal atmospheric pressure. Provisions are made for connecting the output of the counter to a scintillation counter. The active elements of the counter are a stain- less steel cylindrical cathode 25 mm in diameter, a tungsten wire anode 0.05 mm in diameter, and a gas mixture of 90% Ar and 10% CHq which is passed through the counter - interior at a rate of 5-20 cm ³ /min. Fig. 1 shows the output pulse height as a func- tion of the applied potential. The linear region corresponds to a gas avalanche fac- tor range of (1.3-1.6) x 10 ⁶ . The efficiency of the counter as a function of wave- length is shown in Fig. 2. The effectiveness of the counter in detecting hard radia-	
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EWT(m)/FCC/T IJP(c) 1, 1846-66 UR/3136/64/000/618/0001/0016 ACCESSION NR: AT5022288 AUTHOR: Mishakova, A. P.; Nikol'skiy, 3. A. TITLE: Paired angular correlation of secondary particles in cosmic showers with energy E sub O greater than 10 super 11 ov SOURCE: MOSCOW. Institut atomnoy energii. Doklady, IAE-618, 1964. Parnaya uglovaya korrelyatsiya vtorichnykh chastits v kosmicheskikh livnaykh s × energivey Eo>10llev, 1-16 TOPIC TAGS: cosmic ray shower, secondary cosmic ray, cosmic ray particle ABSTRACT: Experimental distributions of paired angles between secondary cosmic ray particles with energy $E_0 > 10^{11}$ ev are compared with calculated distributions obtained by assuming the absence of a systematic angular correlation of shower particles. A good agreement between the calculated and experimental distributions is observed. The results obtained are analyzed from the standpoint of the existence of unstable shower particles which decay into particles of short lifetime. "In conclusion, the authors express their appreciation to Prof. I. I. Gurevich for numerous discussions and for reviewing the results." Orig. art. has: 7 figures and 9 formulas. Card 1/2

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15777-66 EWT(1)/FCC/EWA(h) ACC NH: AP6006669	GW BOURCE CODE: UR/0203/66/006/001/0140/0141
UTHOR: Hikol'skiy, A. P.	281
CRG: Arctic and Antarctic Scient ticheskiy nauchno-issledovatel's	tific Research Institute (Arkticheskiy i antark-
ITLE: Correlation between magne 2 layer	etic activity and disturbances in the ionospheric
OURCE: Geomagnetizm 1 aeronomiy	ra. v. 6, no. 1, 1966, 140-141
OPIC TAGS: ionospheric disturbu geomagnetic time	ance, magnetic perturbation, forbidden period,
ions, both phenomena were studie wears. Peaks in magnetic perturb	onospheric disturbances with magnetic perturba- ed simultaneously using data obtained over many pations at various hours of the day were taken
rom Chelyuskin, Dikson, Tiksi, a f geomagnetic peaks occurs very ctic time. This time interval i	and Uelen (Welen) stations. The appearance seldom between 0800 and 1400 hr local geomag- is considered to be the forbidden period. Ion- layer coincide with the forbidden period and

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 L 15717-66 ACC HR: AP6006669 have a negative sign. Forbidden periods increase as the station latitude decreases. The length of the forbidden period in Tiksi and Welen is from 0700 to 1500 hr local geomagnetic time. The duration of the forbidden period at Chelyuskin is about 4 hr. OHig. art. has: 1 figure. [EG] SUB CODE: 04/ SUBM DATE: 04Jan65/ ORIG REF: 003/ ATD PRESS: 4200 Card 2/2

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L 29978-66 EWT(1)/EWT(m)/EWF(t)/ETI IJF(c) JD ACC NR. AP6012486 SOURCE CODE: UR/0181/66/C03/004/1	1203/1211 43 43
AUTHOR: Nikol'skiy, A. P.	B
ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut	BLAIL
1 splavov)	
1 splavov) TITLE: The mechanism of electric conductivity of ferrites	
SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1208-1211	
TOPIC TAGS: ferrite, electric conductivity, x ray spectrum, a line, line broadening, crystal lattice structure, line splitt	ectric con-
ABSTRACT: The author has made a simultaneous study of the ele ductivity of ferrites of the system $M_{2}O_{3}$ -Re ₂ O ₃ and of the ductivity of ferrites of the system $M_{2}O_{3}$ -Re ₂ O ₃ and of the	ex ray the 3d
lines of Fekas (3d-> 1s) characterizing the choras of differe	nt relative
electrons. The tests were made with eight samples of difference compositions and resistivities. The results show that on goi sample with the minimum resistivity to that with the highest the x-ray lines broaden in the vicinity of the peak and kinks the contours, corresponding to splitting of the central peak. the concluded from an interpretation of the test results that the	appear in It is
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137. NIKOL'GKIY, A.P.; KORDENSKIY, G.A. Kifect of the distance between an I-ray tube and the specizen mider study on the sensitivity of fluorescent I-ray spectrounder study on the sensitivity of fluorescent I-ray spectro-(HIRA 18:1) 1. Tientral'taya laboratoriya avtomatiki.


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1. BIRGLIGHTT, A. P

2. USGR (600)

- 4. Wolframite Group Altai Hountains
- 7. 1. Granitoids of the Altai and Kalbin; 2. Mineralogy of the wolframite deposits of the Altai and Kalbin.; 3. Types of wolframite deposits of the Altai and Kalbin. (Abstract). Izv. Glav. upr. geol. fon., no. 2. 1947.

9. Nonthly List of Hussian Accessions, Library of Congress, March 1953. Unclassified.

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1.	NIKOL'SKIY, A. P.	
2.	USSR (600)	
4.	Rocks, Igneous - Altai Mountains	
7.	Concerning the article "Magna of small intrusions of the Altai." A. P. Nikol'skiy. Reviewed by G. N. Shcherba. Izv. AN SSSR. Ser. geol. No. 2, 1953.	
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9.	Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.	
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MINGLIS	CIU, A.F. y - Book review	- - -		
Card 1/1	Pub. 46 - 18/24			
Authors	Nikol'skiy, A. P.			
Title	Blased criticism			
Foriodical 1	Izv. AN SSSR. Ser. geol. 6, 129-134, Nov-Dec 1954			
Abstract : Rebuttal is given to the criticism of a report written by the author on the subject of. "The Geology of the Krivoy Rog Region." Eleven USSR references (1939-1954).				
Institution	1			
Sutmitted	3 June 8, 1954			
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Translation	15-57-8-11216 from: Referativnyy zhurnal, Geologiya, 1957, Nr 8, p 151 (USSR)
AUTHOR:	Nikol'skiy, A. P.
TITLE:	Metasomatites of the Iron-Bearing Quartzites of the Eastern Part of the Ukrainian Crystalline Shield and the Origin of Rich Iron Ores (Metasomatity zhelezistykh kvartsitov vostochnoy chasti Ukrainskogo kristalliches- kogo shchita i voprosy genezisa bogatykh zhelenznykh rud)
PERIODICAL:	Sov. geologiya, 1956, sb. Nr 50, pp 28-53
ABSTRACT:	The author gives a description of the metasomatic processes developed in the strata of the iron-bearing quartzites of the eastern part of the Ukrainian crystalline shield. He presents the most intensively developed phases of replacement as follows: 1) for- mation of iron ores of the magnetite type of the
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YELISETEV, N.A.; LINOLASHIY, A.F.; KUSHEF, V.G.; FOLLANOV, A.A., skadenik, Javnyy red.; STATNOVA, Ye.A., red.izd-va; ROCHEVER, V.T., telba.red.
[Ketasomatites of the Krivoy Roy ore telt] Ketasomatity brivorozhek pro rudnogo polasa. Moskva, Izd-vo Akad.nauk SSSR, 1961. 204 p. (Akademila nauk SSSR. Laboratorila geoloril dokerbrila. Trudy, no.13). 1. Chlen-korrespondent AN SSSR (for Yeliseyev). (Krivoy Roy Basir--Ketasomitite)



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1931日期日本市民会

MATEYEV, Ye.; MIKOL'SKIY, A.S. (translator); PAVFEROV, V.F. [translator]; FU-TSUKANOV, V.I. [translator]; SAVOST 'IANOV, V.V. (translator]; FU-ZIS; G.S. [translator]; STEPANOV, S.K.[trans. ~r]; VIKET'IWV, A.I., red; GU'SWICH, Yu.Ia., red; FRIMANTSUVA, c.G., Poins. red.
[Labor productivity and the reproduction of the means of production under socialism] Proivvoditel'moot' truds i vospocivodstvo pri sotsialisms. Pod red. A.I.Vikent'eva. Predisl. V.S.Nemchinova. Moskra, Imi-vo incert. lit-ry, 1961. 269 p. (NIRA 14:10)
1. Gius-i-vo:respondent &X Karodnoy Respubliki Bolgarii (for Kateyer). (Labor productivity) (Economics)









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	Akadamiya nauk 2002. Institut mashinovedeniya. Kaxissiya po tekimologii mashinostroyeniya	-
	Osnovnys vogrosy vysokoproizvoditel'nogo shlifovniya (Basie Problems in Bigh-Productivity Grinding) Moscow, Mashgiz, 1960. 195 p. 5,000 copies printed.	
	 Bd. (title page): Ye. H. Maslov, Doctor of Technical Sciences, Professor; Bd. (Inside book): A. T. Popov, Engineer; Tech. Ed.: V. D. El'kind; Managing Ed. for Literature on Metalworking and Instrument Construction (Mashgis): V. V. Exhavinskiy, Engineer. FUNFORM: This book is intended for technical personnel in actal grinding. 	
	COVERAGE: This collection of articles deals with problems of efficient grinding of metals, the theory of grinding, the mechanism of the outting action of grains, chip formation, and the effect of certain factors on the productivity of the grinding process. Hophasis is also given to the extension of the grinding process. A maker of articles deal with the grinding of carbides and titanium alloys. Ho personalities are metican References follow each article.	
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HARFARKSKA Vite 115. st		
•	Basic Problems (Cont.) SCW/3918	
•	TABLE OF CONTENTIO:	5
	From the Editor	
	Maelov, Ye. N. [Doctor of Technical Sciences, Professor]. Mechanism of the Cutting Action of Abrasive Grains in Grinding The author discusses arrangement, spacing, dimensions, and geometry of abrasive grains. The theory of the process of chip formation and the thickness of the layer removed by a single grain are also discussed.	5
	Popov, S. A. [Candidate of Technical Sciences]. Analysis of Types of Chip Formation in Connection With the Geometry of the Grinding-Wheel Surface	30
-	Mikol'skiy, A. V. [Candidate of Technical Sciences]. Effect of Various Factors on Productivity in Cylindrical Grinding The anthor describes a method for determining optimum feeding rate, unit pressure between work and wheel, and the cutting depth of single grains necessary for the maximum utilization of grinding wheels.	59
	Vekser, D. B. [Docent]. Effect of the Geometry of an Abrasive Grain on the Properties of the Grinding Wheel Card 2/6	75



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