

NIKOL'SKIY, G.V.; FORTUNATOV, M.A.

Irrigation construction work and fisheries of the Aral Sea. Mat. k
povn. fauny i flory SSSR. Otd. zool. no.19:6-20 '50. (MIRA 11:3)

(Aral Sea--Fisheries)

(Amu Darya Valley--Hydraulic engineering)

(Syr Darya Valley--Hydraulic engineering)

ЖИГАЛИЕВ, С. В.; КИРИЛЛОВИЧ, В. П.

Fishes - Turkmenistan

Fish of the Murgab Basin (Turkmenia), Sbor. trud. Zool. muz., 7, 1951

9. Monthly List of Russian Accessions, Library of Congress, July 195². Unclassified.

NIKOL'SKIY, G. V.

Fishes

Dynamics of the fish count. Ryb. khos., 28, No. 5, 1952.

Monthly List of Russian Accessions Library of Congress October 1952 UNCLASSIFIED.

BOGUTSKIY, Ye.V.; KLYUCHAROVA, O.A.; NIKOL'SKIY, G.V.

Benthic invertebrates (zoobenthos) of the Amur basin and their role
in the nutrition of the Amur fishes. *Mat. k pozn. fauny i flory SSSR.*
Otd. zool. no. 12:5-139 '52. (NINA 11:4)

1. *Laboratoriya ikhtologii i Zoologicheskiy muzey Mskovskogo
gosudarstvennogo universiteta.*
(Amur Valley—Fresh-water fauna) (Fishes—Food)

1. НИКОЛАШВИ, С. В.
2. USSR (600)
4. Salmon - Amur River
7. Type of shoal dynamics and character of spawning in *Oncorhynchus gorbuscha* (Walb.) and *Oncorhynchus keta* (Walb.) in the Amur., Dokl. AN SSSR, 86, No. 4, 1952.

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

СРЕДНЕВЕКОВЫЕ РУССКИЕ ПИСЬМЕННЫЕ ПАМЯТНИКИ. Т. 1.

Редкая книга о селе под [The Arar River and Mr. Pichag]. Казань, 1893. 100 p.

SO: Monthly List of Russian Accessions, Vol. 7, No 4, July 1954.

MANTEYSEL', B.P.; NIKOL'SKIY, G.V.

Tasks of marine hydrobiology in solving the problem of the utilization of fish resources of the open seas. Vop. ikht. no. 1:18-23 '53. (MLRA 7:6)

1. Laboratoriya gidrobiologii Vsesoyuznogo nauchno-issledovatel'skogo instituta morskogo rybnogo khozyaystva i okeanografii. 2. Laboratoriya ikhtiologii Moskovskogo universiteta imeni M.V. Lomonosova.
(Marine biology)

NIKOL'SKIY, G.V.

Regularities in the quantity dynamics of fish. Vest.Mosk.un. 8 no.2:107-
113 P '53. (MIRA 6:5)
(Fishes)

NIKOL'SKIY, G.V., chlen-korrespondent.

~~NIKOL'SKIY, G.V.~~
Role of biology in the development of the fish industry. Vest.AN SSSR 23
no.11:72-77 N '53. (NERA 6:12)

1. Akademiya nauk SSSR.

(Fish trade)

NIKOL'SKIY, G.V.

The occurrence in modern times of the second living representative of
crossopterygian fishes. Zool.zhur. 32 no.3:478-479 K'y-Je '53. (MLA 6:6)

1. Laboratoriya ikhtiologii Moskovskogo gosudarstvennogo universiteta
imeni M.V. Lomonosova. (Crossopterygii)

NIKOL'SKIY, G.V.

Problem of species. Zool.zhur. 32 no.5:820-827 S-O '53.

(NINA 6:10)

1. Laboratoriya ikhtiologii Moskovskogo gosudarstvennogo universiteta.
(Origin of species)

NIKOL'SKIY, G.V.

Certain general problems in biology. Biol.MOIP. Otd.biol. 58 no.2:48-56
'53. (MIRA 6:6)
(Biology)

NIKOL'SKIY, G.V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Nicol'skiy, G.V.	"Special Ichthyology"	Moscow State University (named M.V. Lomonosov)

80: W-30604, 7 July 1954

NIKOL'SKIY, GEORGIY VASIL'YEVICH.

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1951

GRASHNAYA IDENTIFIKatsIYA (SERIAL IDENTIFICATION) IZD. 2 ISPR. I DOP.

MOSKVA, SOVETSKAYA NAUKA, 1951.

158 P. ILLUS., MAPS, TABLES.

"LITERATURA": P. 111-(131)

NIKOL'SKIY, G.V.
NIKOL'SKIY, G.V.

The "over-all method" and some other problems in hydrobiology. Inv.
AN SSSR. Ser. biol. no.6:26-32 V-2 '54. (PLATE 8:3)

1. Nakhovskiy ordena Lenina Gosudarstvennyy universitet im.
N.V.Lomonosova. Laboratoriya ikhtologii.
(FRESH-WATER BIOLOGY)

NIKOL'SKIY, G.V.

Problems in hydrobiology. Zhur.ob.biol. 15 no.3:225-232 My-Je '54.
(MIRA 7:6)

I. Laboratoriya ikhtologii Moskovskogo gosudarstvennogo universi-
teta. (FRESH-WATER BIOLOGY) (MARINE BIOLOGY)

NIKOL'SKIY, G.V.

USSR/ Biology - Ichthyology

Card 1/1 : Pub. 86 - 6/40

Authors : Nikol'skiy, G. V., and Soin, S. G.

Title : On the biological bases of salmon breeding in the Amur basin

Periodical : Priroda 43/4, 52-58, Apr 1954

Abstract : An account is given of a study of the characteristics of seven varieties of salmon, from which two were selected, the hump-backed salmon and the Siberian salmon, as being the ones maturing more rapidly. A detailed description is given of the biological factors involved in the hatching and raising of salmon and of the equipment installed in the Amur river for this purpose and the method of its operation. Illustrations; tables.

Institution :

Submitted :

MURZAYEV, B.M., doktor geograficheskikh nauk, redaktor; PAVLOVSKIY, Ye.N., akademik, redaktor; GRUND-GRZHMAYLO, redaktor; GELLER, S.Yu.; GHRASINOV, akademik; KALESHNIK, E.V.; LINDBERG, G.Yu.; MARKOV, K.F. MURZAYEV, B.M.; NIKOL'SKIY, G.V.; NIKOL'SKAYA, V.V.; GOSTYEV, D.V.; SVETOVIDOV, A.N. SMYKOVA, A.V., tekhnicheskiy redaktor

[In memory of Academician L.S.Berg; a collection of works on geography and biology] Pamiati akademika L.S.Berga; sbornik rabot po geografii i biologii, Moskva, Izd-vo Akademii nauk SSSR, 1955. 562p. (MIRA 9:1)

1. Akademiya nauk SSSR. 2. Chlen-korrespondent AN SSSR (for Kalesnik, Nikol'skiy, Svetovidov)
(Berg, Lev Semenovich, 1876-1950) (Biology) (Geography)

NIKOL'SKIY, G.V.

Biological bases of the fishing industry in inland water.
Trudy Biol.sta."Borok" no.2:136-141 '55. (MIRA 9:6)
(Fresh-water biology)

NIKOL'SKIY, G.V.; TSENTOLOVICH, F.F.

Notes on the hydrobiology of the Murgab Basin. Trudy Murg.gidrobiol.
sta. no.3:40-53 '55. (MLM 9:6)
(Murgab Valley--Fresh-water biology)

NIKOL'SKIY, G. V., professor

Let us multiply our fish resources. Nauka i zhizn' 22 no.5:
28-30 May '55 (NINA 8:6)

1. Onlin-correspondent Akademi nauk SSSR, 2. Moskviy
gosudarstvennyy universitet imeni N.V. Lomonosova.
(Fisheries)

НИКОЛ'СКИЙ, Г.В.

NIKOL'SKIY, G.V.

Content, theoretical bases, and principal problems of animal ecology.
Ecol.stud. 34 no.1:66-79 Ja-F '55. (NLSA 8:)

1. Laboratoriya ikhtologii MGU im.M.V.Lomonosova.
(Ecology—Ecology)

NIKOL'SKIY, G.V.

KONSTANTINOV, K.G.

"Specialised ichthyology." G.V.Nikol'skii. Reviewed by K.G.Konstantinov. Zool.zhur. 34 no.2:477-479 Mr-Ap '55. (MLBA 8:6)
(Nikol'skii, G.V.) (Fishes)

NIKOL'SKIY, G.V.

**Variability of organisms. Zool. zhur. 34 no.4:723-733 31-
Ag '55. (MLA 8:9)**

**1. Laboratoriya ikhtiologii Moskovskogo gosudarstvennogo
universiteta imeni M.V.Lomonosova
(Fishes) (Zoology--Variation)**

GRUMYATSKIY, M.A., prof.; IVANOV, A.V., prof., red.; MAUMOV, N.P., prof., red.; OBPENR, V.G., prof., red.; MATVYEV, B.S., prof., red.; POPOV, V.V., prof., red.; STRAUTMAN, F.I., prof., red.; NIKOL'SKIY, G.V., prof., red.; SHIBANOV, N.V., dots., red.

[Program in human anatomy for biology and soil biology faculties in state universities] Programma po anatomii cheloveka dlia biologicheskikh i biologo-pochvennykh fakul'tetov gosudarstvennykh universitetov. [Moskva] Izd-vo Mosk.univ., 1956. 10 p. (MIRA 11:3)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshago obrazovaniya.
(ANATOMY, HUMAN--STUDY AND TEACHING)

BORG, Lev Semenovich, akademik; GILLER, S.Yu.; GERASIMOV, I.P., akademik;
GRIGOR'YEV, A.A., akademik; KALESHIK, S.V.; LINDBERG, G.U.; MARKOV,
K.K.; MURZAYEV, E.M., doktor geograficheskikh nauk, otvetstvennyy
redaktor; NIKOL'SKIY, G.V.; NIKOL'SKAYA, V.V.; OBRUCHEV, D.V.;
FAVLOVSKIY, Ye.N., akademik; SVETOVIDOV, A.N.; BOLYNSKAYA, V.S.,
redaktor izdatel'stva; KASHINA, P.S., tekhnicheskiy redaktor;
ZEMLYAKOVA, T.A., tekhnicheskiy redaktor

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akademii nauk
SSSR. Vol.1. [The history of science] Istorija nauki. 1956. 394 p.
(MIRA 9:9)

1. Chlen-korrespondent AN SSSR (for Kalesnik, Nikol'skiy, G.V.,
Svetovidov)
(Science--History)

CHERFAS, Boris Iosifovich, professor, doktor biologicheskikh nauk; KOZHIN,
N.I., professor, rezensent; NIKOL'SKIY, G.V., professor, rezensent;
IL'INA, V.V., redaktor; CHEBYSHEVA, Ye.A., tekhnicheskiy redaktor

[Fish culture in natural waters] Rybovodstvo v estestvennykh vodotokakh.
Izd. 3-e, perer. i dop. Moskva, Fishchepromizdat, 1956. 468 p.
(Fish culture) (MIRA 10:1)

NIKOL'SKIY, GEORGIY VASIL'YEVICH

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631.43
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RYBY BASSEYNA AMURA (FISHES OF THE AMUR RIVER BASIN) MOSKVA, AKADEMICHESKAYA 1956.

551 P. ILLUS., DIAGRS., TABLES.

AT HEAD OF TITLE: AKADEMIYA NAUK SSSR.

"LITERATURA": P. (530) - 540.

NIKOL'SKIY, G.V.

Data on ecology of animals in the Hindu epics Mahabharata and Ramayana.
Vop.ist.est. i tekhn. no.2:146-154 '56. (MIRA 10:1)
(Epic poetry, Hindu)
(Zoology--Ecology)

NIKOL'SKIY, G.V.

- BENEDIKTOV, I.A., redaktor; GRITSERKO, A.V., redaktor; IL'IN, M.A., zamestitel' glavnogo redaktora, LAPTEV, I.D., LISKUN, Ye.F.; LOBANOV, P.P., glavnyy redaktor; LYSENKO, T.D.; SKRYABIN, K.I.; STOLETOV, Y.E.; PAVLOV, G.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SOKOLOV, M.S., professor, nauchnyy redaktor; ANTIPOV-KARATAYEV, I.N., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KARPINSKIY, N.P., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHENSTAKOV, A.G., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; RUBIN, B.A., doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KOMARNITSKIY, N.A., dotsent, nauchnyy redaktor; LYSENKO, T.D., akademik, nauchnyy redaktor; POLYAKOV, I.M., professor, nauchnyy redaktor; SHCHERBOLIN, V.N., doktor sel'skokhozyaystvennykh nauk, professor, nauchnyy redaktor; YAKUSHKIN, I.V., akademik, nauchnyy redaktor; LARIN, I.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; SMOLOV, S.P., professor, doktor biologicheskikh nauk, nauchnyy redaktor; MEL'SHTAYN, V.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SHCHERBACHEV, D.M., professor, doktor meditsinskikh nauk, nauchnyy redaktor; OGOLIVETS, G.S., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor; YAKOVLEV, P.N., akademik, nauchnyy redaktor; YEKIMOV, V.P., agronom, nauchnyy redaktor [deceased], BYTINGIN, G.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; TIMOFAYEV, N.N., professor, nauchnyy redaktor; TUROV, S.I., professor, doktor biologicheskikh nauk; YUDIN, V.M., akademik, nauchnyy redaktor; LISKUN, Ye.F., akademik, nauchnyy redaktor; VITT, V.O., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; KALININ, V.I., kandidat sel'skokhozyaystvennykh nauk, nauchnyy redaktor

(Continued on next card)

-BENEDIKTOV, I.A.--- (continued) Card 2.

GRIBNIK', L.K., akademik, nauchnyy redaktor; NIKOLAYEV, A.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; RED'KIN, A.P., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; SMIRNOV, S.I., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POPOV, I.S., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; MANTYFEL', P.A., professor, nauchnyy redaktor; INIKHOV, G.S., professor, doktor khimicheskikh nauk, nauchnyy redaktor; ANFINOV, A.N., professor, nauchnyy redaktor; GUBIN, A.F., professor, doktor sel'skokhozyaystvennykh nauk, nauchnyy redaktor; POLTEV, V.I., professor, doktor veterinarnykh nauk, nauchnyy redaktor; LINDEN, V.V., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; CHERGAS, B.I., professor, doktor biologicheskikh nauk, nauchnyy redaktor; NIKOL'SKIY, G.V., professor, nauchnyy redaktor; AVTOKRATOV, D.M., professor, doktor veterinarnykh nauk, nauchnyy redaktor; IVANOV, S.V., professor, doktor biologicheskikh nauk, nauchnyy redaktor; VIKTOROV, K.P., professor, doktor veterinarnykh nauk, nauchnyy redaktor; KOLYAKOV, Ya.Ye., professor, doktor veterinarnykh nauk, nauchnyy redaktor; ANTIPIN, D.N., professor, doktor veterinarnykh nauk, nauchnyy redaktor; MARKOV, A.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; DOMRACHEV, G.V., professor, doktor veterinarnykh nauk, nauchnyy redaktor; OLIVKOV, B.M., professor, doktor veterinarnykh nauk, nauchnyy redaktor [deceased]; FLEGMATOV, M.A., professor, doktor veterinarnykh nauk, nauchnyy redaktor; BOLTINSKIY, V.N., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; VIL'YANS, Vl.P., professor, doktor tekhnicheskikh nauk, nauchnyy redaktor; KRASHOV, V.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor;

(Continued on next card)

BENEDIKTOV, I.A. --- (continued) Card 3.

YEVSEYEV, M.G., akademik, nauchnyy redaktor; SAZONOV, M.A., doktor
tekhnicheskikh nauk, nauchnyy redaktor; NIKANDROV, B.I., inzhener,
nauchnyy redaktor; KOSTYAEV, A.M., akademik, nauchnyy redaktor;
CHERKASOV, A.A., professor, doktor tekhnicheskikh nauk, nauchnyy redak-
tor; DAVITAYA, F.F., doktor sel'skokhozyaystvennykh nauk, nauchnyy
redaktor; IVANOV, N.N., professor, doktor tekhnicheskikh nauk, nauchnyy
redaktor; ORLOV, P.M., professor, doktor tekhnicheskikh nauk, nauchnyy
redaktor, LOZA, G.M., kandidat ekonomicheskikh nauk, nauchnyy redaktor;
CHERNOV, A.V., kontrol'nyy redaktor; ZAVARSKIY, A.I., redaktor; ROS-
SOSHANSKAYA, V.A., redaktor; FILATOVA, M.I., redaktor; YEMEL'YANOVA,
M.I., redaktor; SILIN, V.S., redaktor BRANZBURG, A.Yu., redaktor;
MAGNITSKIY, A.V., redaktor terminov; KUDRYAVTSEVA, A.G., redaktor
terminov; AKSENOVA, A.P., mladshiy redaktor; MALYAVSKAYA, O.A., mlad-
shiy redaktor; FIMOTOVA, A.F., tekhnicheskij redaktor

(Continued on next card)

БЕНДИКОВ, И.А.---(continued) Card 4.

[Agricultural encyclopedia] Sel'skokhoziaistvennaia entsiklopediia.
Iss. 3-e, perer. Moskva, Gos. izd-vo selkhoz. lit-ry. Vol. 5. [T-IA.]
1956. 663 p. (MIRA 9:9)
(Agriculture--Dictionaries and encyclopedias)

N. Nikol'skiy, G.V.

USSR/General Division - New Journals and Series.

A-6

Abs Jour : Ref Zhur - *Biologiya*, No 1, 1957, 116.

Author : Nikol'skiy, G.V.

Inst :

Title : Works on Hydrobiology in China.

Orig Pub : *Zool. Zh.*, 1956, 35, No 3, 476.

Abst : The volume "Acta hydrobiologica sinica" is the first issue of the works of the Institute of Hydrobiology of the Academy of Sciences of China. It was published in 1955. It includes four articles devoted to different problems of the fishing industry in inland waters. The titles of the articles are "The Determination of the Minimal Quantity of Oxygen in which some Pond Fish can Live" (Chen Nin-shen and Shi Chuan-fan); "Account of the Works for the Protection of Carp from Diseases" (Ni Da-shu); "Productivity in Two Experimental Ponds Fertilized by Traditional Methods Utilized in Chinese Pisciculture" (Liu Tseen-kan);

Card 1/2

НИКОЛАШВИЛИ, Г.В.

Some data on the marine period of the Pacific lamprey *Lampetra japonica* (Martens) [with English summary in insert]. *Zool.zhur.*
35 no.4:588-591 Ap '56. (MLBA 9:8)

1. Laboratoriya ikhtologii Neekevskogo gosudarstvennogo universiteta
imeni N.V. Luninseva.
(Lampreys)

NIKOL'SKIY, G.Y.

Ichthyological research in the Chinese People's Republic. Iscl.shur.
35 no.11:1747-1764 D '56. (NIRA 10:1)

1. Ikhtiologicheskaya komissiya Akademii nauk SSSR i laboratoriya
ikhtiologii biologo-pochvennogo fakul'teta Moskovskogo gosudarstven-
nogo universiteta imeni M.V. Lomonosova.
(China--Ichthyological research)

NIKOL'SKIY, G.V.

Forty-fourth session of the International Council for the Exploration
of Seas. Zool. zhur. 36 no.7:1112-1117 J1 '57. (NLMA 10:9)

1. Laboratoriya ikhtiologii Moskovskogo gosudarstvennogo universite-
ta i ikhtologicheskaya komissiya Akademii nauk SSSR.
(Copenhagen--Fisheries--Congresses)

NIKOL'SKIY, G. V.

"Some Problems Concerning the Biological Foundations of Salmon Fishing in the Far East," Oceanographic Research of the Northwestern Part of the Pacific Ocean, Moscow, Izd-vo AN USSR, 1958. (Fluctuations in the quantity of salmon depends on climatic conditions. The article stresses the need to improve conditions for natural spawning in rivers and estuaries, and, whenever necessary, to organize spawning farms.)

COVERAGE: This collection of articles reports the results of observations made in the Pacific by the Institute of Oceanology of the Academy of Sciences, USSR. In 1949, the Institute launched a systematic five-year program of scientific exploration of certain hydrographic peculiarities of the Soviet Pacific area. The operations were carried out as a "Complex Oceanographic Expedition," using the motorboat Vityaz' as its base. The Expedition worked in collaboration with the Hydrographic Institute of the Soviet Navy (VMS), the Pacific Institute of Piscatology and Oceanography and some 40 other institutes of the Academy of Sciences. Between 1949 and 1954, 18 trips were made, covering about 130,000 miles. Among the subjects of direct concern were: meteorology, hydrology, Oceanography, hydrochemistry, sedimentation, geography of the littoral, geology and contours of the sea bottom, fauna, plankton, microbiology, and gravimetry. Twenty-eight authors contributed to the collection which consists of 27 articles.

NIKOL'SKIY, G.V.

Biological foundations of fishery regulation. Vop. ikht. no.11:
3-15 '58. (NERA 12:1)

1. Ikhtologicheskaya komissiya AN SSSR i Institut morfologii
shivetnykh AN SSSR.
(Fisheries)

AUTHOR: Nikol'skiy, G. V., Corresponding Member 30-58-4-11/44
of the AS USSR

TITLE: Meeting of the International Council for Marine
Research (Sessiya mezhdunarodnogo soveta po
izucheniyu morey)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Vol. 28, Nr 4,
pp. 69-70 (USSR)

ABSTRACT: This Council at present includes 16 countries. The
Soviet Union was accepted in 1955. From September
30 till October 6, 1957 the 45th annual meeting of
this Council took place at Bergen (Norway). The
Soviet delegation consisted of N. K. Miryukov, T. F.
Bement'yev, N. A. Dmitriyev, A. Ye. Kriss, I. I.
Lagunov, V. A. Lednev, M. N. Lishev, Yu. Yu. Marti,
G. V. Nikol'skiy, N. N. Fedosev. Before the meeting
a symposium on problems of the primary capacity of
the sea as well as a special discussion on the
protection of bottom fishes in the Baltic Sea. The
majority of the reports was devoted to the problems

Card 1/3

Meeting of the International Council for Marine Research

30-58-4-11/44

of the conditions of the stocks of industrial fishes and the measures for their protection. The Soviet scientists were interested in data on the conditions of the swarms of Atlantic-Scandinavian herrings. On these problems the Soviet delegation submitted three reports: Ju. Ju. Marti on "The Influence of Industry on the Stocks of Herrings"; M. N. Lishev on "The Dynamics of the Quantity of the small herring of the East Baltic Sea", and on the Selectivity in the Drag-Net Industry in the East Baltic Sea". N. A. Maslov and Yu. Yu. Marti reported on the stock of cod-fish in the Barents Sea. A number of reports was dealing with methodological and terminological problems. D. V. Madakov and D. S. Nikolajev (USSR) reported on the change of the effectivity of fishing equipment when ravenous fish are present in the zone of catching. I. I. Legunov and V. V. Asbelev (USSR) reported on the influence of a fish haul at the GES, Tulom, on the salmon swarm. The next, 46th meeting was decided to take place in Copenhagen on September 29, 1958;

Card 2/3

Meeting of the International Council for Marine Research

30-98-4-11/44

Before that meeting it is intended to hold a symposium on salmon breeding problems. In the spare time research ships and museums were visited. The author considers the participation in this meeting very fruitful.

1. Fishes—Salmon (sea)

Card 3/3

NIKOL'SKIY, G.V.

Effect of the decrease in fish stocks caused by fishing on the
population structure of commercial fishes [with summary in English].
Ecol. zhur. 37 no.1:41-56 Ja '68. (NINA 11:2)

1. Laboratoriya ikhtiologii Instituta morfologii zhivotnykh AN
SSSR, Moskva.

(Fisheries--Research)

NIKOL'SKIY, G.V.

NIKOL'SKIY, G.V.

Second plenum of the international commission for fishery research
in the western part of the Pacific Ocean. Zool. zhur. 37 no.1:198-
160 Ja '58. (NINA 11:2)

(Pacific Ocean--Fisheries--Congresses)

NIKOL'SKIY, G.V.; PIKULEVA, V.A.

Adaptive significance of the amplitude of variability of specific characters and properties of the organism [with summary in English].
Zool. zhur. 37 no.7:972-988 JI '58. (MIRA 11:8)

1. Laboratoriya ikhtiologii Moskvskego gosudarstvennogo universiteta.

(Adaptation (Biology)) (Fishes--Food)

NIKOL'SKIY, G.V.

Some problems concerning the interrelationship between biology,
chemistry, and physics. Nauch. dokl. vys. shkoly; biol. nauki
no.4:7-14 '59. (MIRA 12:12)
(Biology)

NIKOL'SKIY, G.V.; BELYANINA, T.N.

Population dynamics in some forms of the Atlantic herring.
Zhur.ob.biol. 20 no.3:161-173 My-Je '59. (NINA 12:8)

1. Laboratory of Ichtiology, Institute of Animal Morphology,
Academy of Sciences of the U.S.S.R.
(NORTH SEA--HERRING FISHERIES)

NIKOL'SKIY, G.V.; BELYANINA, T.E.

Effect of the selective action of gill nets on the qualitative composition of the fish population. Izv. AN SSSR, Ser.biol, 24 no.6:889-897 K-D '59. (NIRA 13:4)

1. Laboratory of Ichthyology, Institute of Animal Morphology,
Academy of Sciences of the U.S.S.R., Moscow.
(FISHING NETS) (FISHERIES--RESEARCH)

NIKOL'SKIY, G.V.

Ichthyological research in the Korean People's Democratic Republic.
Zool.shur. 38 no.5:797-799 My '59. (MIRA 12:7)

1. Laboratoriya ikhtiologii Moskovskogo gosudarstvennogo universiteta.
(Korea, North—Ichthyological research)

PAVLOVSKIY, Ye.N., akademik; ZAYTSEV, V.P.; NIKOL'SKIY, G.V.; OMERZ, S. B.I.

Tasks in the field of fishery biology in connection with the seven-year plan for fishery development. Zool.zhur. 3^o no.6:80;-811 Je '59.
(MIRA 12:11)

1. Ichthyological Commission of the Academy of Sciences of the U.S.S.R., Moscow.

(Fisheries--Research)

LEBENKOV, V.D.; NIKOL'SKIY, G.V., prof., otv.red.; POMALEN'KAYA, O.F.,
red.; YERMAKOV, M.S., tekhn.red.

[Quaternary fresh-water fishes of the European part of the U.S.S.R.]
Freshvodnaya chetvertichnaya ikhtiofauna Evropeiskoi chasti SSSR.
Moskva, Izd-vo Mosk.univ., 1960. 401 p. (MIRA 13:12)

1. Chlen-korrespondent AN SSSR (for Nikol'skiy).
(Fishes, Fossil)

BERG, Lev Semenovich, akademik; MURZAYEV, N.M., doktor geograf.nauk.
stv.red.; PAVLOVSKIY, Ye.N., akademik, red.; GELLER, S.Yu., red.;
GEMASINOV, I.P., akademik, red.; GRIGOR'YEV, A.A., akademik,
red.; KALENIK, S.V., red.; LINDBERG, G.U., red.; MARKOV, K.K.,
red.; NIKOL'SKIY, G.V., red.; NIKOL'SKAYA, V.V., red.; OBNUCHEV,
D.V., red.; PAVLOVSKIY, Ye.N., akademik, red.; SVETOVIDOV, A.N.,
red.; SPRIGINA, L.I., red.isd-vs; GOLUB', S.P., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Isd-vo Akad.nauk SSSR.
Vol.3. [Central Asia. Loose] Sredniasia Azia; Loose. 1960.
550 p. (MIRA 13:11)

1. Chleny-korrespondenty AN SSSR (for Kalesnik, Nikol'skiy,
Svetovidov).
(Soviet Central Asia--Physical geography) (Loose)

NIKOL'SKIY, Georgiy Vasil'yevich; MUKHAYEV, R.S., red.; FLAKSERMAN,
R.S., transl. Ed.

[Unity of the organism and environment as a theoretical foundation of
economy based on the utilization of animal and plant kingdoms]
Edinstvo organizma i sredy kak teoreticheskaya osnov khoviatstva,
baziruyushchegosia na ispol'sovanii khivo'nogo i rastitel'nogo mira.
Moskva, Ob-vo po rasprostraneniю polit. i nauchn. znanii SSSR,
1960. 38 p. (MIRA 14:9)

1. Chlen-korrespondent AN SSSR (for Nikol'skiy).
(Ecology) (Fisheries)

NIKOL'SKIY, G.V.

Studying the dynamics of fish populations. Izv. AN SSSR. Ser.
biol. no. 4:533-541 JI-Ag '60. (MIRA 13:8)

1. Institut morfologii zhivotnykh imeni A.N. Severtsova.
(FISHES) (ANIMAL POPULATIONS)

NIKOLSKI, G.V. [Nikolskiy, G.V.]

Basic problems of Soviet ichthyology. *Analele biol* 14 no.2:125-147
Ap-Je '60. (SERIAL 9:11)
(RUSSIA--FISHES)

NIKOL'SKIY, G.V.

Forms of quantitative self-regulatory adaptations in fish populations.
Zhur. ob. biol. 21 no.4:233-244 JI-4g '60. (MIRA 13:7)

1. Chair of Ichthyology, University of Moscow and the Institute of
Animal Morphology, U.S.S.R. Academy of Sciences.
(FISHES -- PHYSIOLOGY) (ANIMAL POPULATIONS)

NIKOL'SKIY, G.V.; VERIGIN, B.V.; KLYUCHAREVA, O.A.

Fishery management in the middle and upper Amur Basin in connection with the planned hydraulic construction work. Zool.shur. 39 no.3): 407-416 '60. (MIRA 13:6)

1. Chair of Ichthyology, and Agrobiological Station of the Moscow State University.
(Amur River--Fisheries--Research)

NIKOL'SKIY, G.V.

Symposium on problems related to the population dynamics of
commercial animals. Zool. zhur. 39 no.11:1747-1750 N '60.

(MIRA 14:1)

(Animal populations--Congresses)

(Game and game birds)

(Fisheries)

~~NIKOL'SKIY, Georgiy Vasil'evich; KUDINSKAYA, L.V., red.; FERROVSKAYA,
L.F., red.; PAVLOVA, V.A., tekhn.red.~~

[Ecology of fishes] Ekologiya ryb. Moskva, Vysshaya shkola,
1961. 336 p. (MIRA 14:3)

1. Kafedra ikhtologii Biologo-pochvennogo fakul'teta Moskovskogo
gosudarstvennogo universiteta im. M.V.Lomonosova (for Nikol'skiy).
(Fishes) (Ecology--Ecology)

PAVLOVSKIY, Ye.N., akademik, glav. red.; NIKOL'SKIY, G.V., zam. glav. red.; MARTI, Yu.Yu., red.; CHUGUNOVA, N.I., red.; SABLINA, T.B., red. izd-va; ASTAF'YEVA, G.A., tekhn. red.; DOROKHINA, I.N., tekhn. red.

[Studies on the biological foundations of fishery management; problems in the theory of the dynamics of the abundance of fishes] Ocherki po biologicheskim osnovam rybnogo khoziaistva; voprosy teorii dinamiki chislennosti ryb. Moskva, Izd-vo Akad. nauk SSSR, 1961. 238 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Ikhtologicheskaya komissiya. 2. Chlen-korrespondent AN SSSR (for Nikol'skiy).
(Fisheries)

BERG, Lev Semenovich, akad.; ANDRIYASHEV, A.P., [translator]; BERG, S.L., [translator]; LONZA, M.I., [translator]; LINDBERG, G.U., doktor biolog. nauk, otr. red.; PAVLOVSKIY, Ye.N., akad., red.; GERASIMOV, I.P., akad., red.; MURZAYEV, E.M., red.; GELLER, S.Yu., red.; GRIGOR'YEV, A.A., akad., red.; KALESHNIK, S.V., red.; MARKOV, K.K., red.; NIKOL'SKIY, G.V., red.; NIKOL'SKAYA, V.V., red.; OBRUCHEV, D.V., red.; SVETOVIDOV, A.N., red.; STRELKOV, A.A., red.izd-va; SMIRNOVA, A.V., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad.nauk SSSR. Vol.4. [Ichthyology] Ikhtiologiya. 1961. 746 p. (MIRA 14:5)

1. Chlen-korrespondent AN SSSR (for Kalesnik, Nikol'skiy, Svetovidov)

(Ichthyology)

NIKOL'SKIY, G.V.

Some problems of biological fishery research in Uzbekistan. *Uzb. biol. sbur.* no.1:69-74 '61. (MIRA 14:3)

1. Moskovskiy gosudarstvennyy universitet.
(UZBEKISTAN—FISHERIES—RESEARCH)

NIKOL'SKIY, G.V.

Some future problems of fishery research in the Aral Sea. Stor. rab.
po ikht. i gidrobiol. no.3:45-51 '61. (MIRA 15:1)

1. Predsedatel' Ikhtiologicheskoy komissii AN SSSR.
(Aral Sea--Fisheries--Research)

DEMENT'YEVA, T.F.; MARTI, Yu.Yu.; MOISEYEV, P.A.; NIKOL'SKIY, G.V.

Factors determining the dynamics of fish populations.
Trudy sov. Ikht. kom. no.13:7-20 '61. (MIRA 14:8)

1. Ikhtiologicheskaya komissiya AN SSSR i Vsesoyuznyy nauchno-
issledovatel'skiy inatitut morskogo rybnogo khozyaystva i
okeanografii - VNIRO
(Fish populations)

NIKOL'SKIY, G.V.

Some characteristics of the effect of fishing on the population structure and properties of individuals in a commercially fished school. Trudy sov. Ikht. kom. no.13:21-33 '61.

(MIRA 14:8)

1. Laboratoriya ikhtiologii Instituta morfologii zhivotnykh AN SSSR.

(Fish populations)
(Fisheries)

MIRONOV, M.N.; NIKOL'SKIY, G.V.

The law on the protection of nature and problems in ichthyological
research. Vop. ikht. 1 no. 1:4-8 '61. (MIRA 14:5)

1. Ikhtiologicheskaya komissiya Akademii nauk SSSR.
(Fisheries—Research)

NIKOL'SKIY, G.V.

Causes of fluctuations in the abundance of fishes. Vop. ikht.
I no.4:659-665 '61. (PIRA 14:12)

1. Kafedra ikhtiologii Biologo-pochvennogo fakul'teta
Moskovskogo gosudarstvennogo universiteta.
(Fisheries)

BORISOV, P.G.; NIKOL'SKIY, G.V.

Principal stages in the development of biological fishery research
in Russia during the past one hundred years. *Zool.*
zhur. 40 no.8:1227-1239 Ag '61. (MIRA 14:8)

1. Ichthyological Commission of the U.S.S.R. Academy of Sciences
(Moscow).

(Fisheries—Research)

NIKOL'SKIY, Georgiy Vasil'yevich, prof.; STAROSTENKOVA, M.M., red.;
NAZAROVA, A.S., tekhn. red.

[Species and the formation of species] Vid i vidobrazovanie.
Moskva, Izd-vo "Znanie," 1962. 47 p. (Novoe v zhizni, nauke,
tekhnike. VIII Seriya: Biologiya i meditsina, no.5)

(MIRA 15:6)

1. Chlen-korrespondent Akademii nauk SSSR, Moskovskiy gosudarstvennyy universitet (for Nikol'skiy).

(Origin of species)

NIKOL'SKIY, G.V.

Some goals of biological fishery research in the White Sea. Vest.
Mosk. un. Ser. 6: Biol. pochv. 17 no. 4: 3-9 N-D '62.

(MIRA 17:6)

1. Kafedra ichtiologii Mosk. gos. universiteta.

NAUMOV, N.P.; NIKOL'SKIY, G.V.

Some general characteristics of the dynamics of animal populations.
Zool.shur. 41 no.8:1132-1141 Ag '62. (MIRA 15:9)

1. Biological and Soil Faculty, Moscow State University.
(Animal populations)

KARZINKIN, G.S.; NIKOL'SKIY, G.V.

Michurin's trend in biology and ichthyological research. Vop.
ikht. 3 no. 1:7-14 '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo
rybnogo khozyaystva i okeanografii (VNIRO) i kafedra ikhtiologii
Biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo
universiteta.

(Biology--Philosophy)

(Ichthyological research)

NIOL'SKIY, G.V.; PIROZHNIKOV, F.L.; BORUTSKIY, Ye.V.

Seventh Plenum of the Commission on the Exploration of Fisheries
in the western part of the Pacific Ocean. Vop.ikht. 3 no.1:203-
205 '63. (MIRA 16:2)
(Pacific Ocean—Fisheries—Congresses)

NIKOL'SKIY, G.V.; DERENT'YEV, G.P.; POLUSHINA, N.A.; STRAUTMAN, F.I.

Brief news and information. Zool. zhur. 42 no.4:634 '63.
(MIRA 16:7)

(Crustacea) (Ornithology—Congresses)

BORISOV, Pavel Gavrilovich, prof.; OVSYANNIKOV, Nikola~ Sergeyevich, dots.; NIKOL'SKIY, G.V., prof., retsenzent; KOSKOVA, O.N., red.

[A manual for commercial fishes of the U.S.S.R.] Oprodelitel' promyslovyykh ryb SSSR. Izd.4., perer. i dop. Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 318 p.
(MIRA 17:8)

NIKOL'SKIY, G.V.

Methods for increasing the productivity of the biosphere as
exemplified by the populations of commercial aquatic organisms.
Zool. zhur. 43 no. 3:398-408 '64. (MIRA 17:5)

1. Chair of Ichthyology, Biologico-Pedological Faculty, State
University of Moscow.

NIKOL'SKIY, G.V., otv. red.; MAKAROV, B.M., red.

[Theoretical principles of fish culture; reports and resolution of the Conference] Teoreticheskie osnovy rybovodstva; doklady i reshenie Soveshchaniia. Moskva, Nauka, 1965. 244 p. (MIRA 18:7)

1. Vsesoyuznoye soveshchaniye po teoreticheskim voprosam rybovodstva, Moscow, 1964.

NIKOL'SKIY, G.V.

Some modern problems in the field of animal population
dynamics. Zool.zhur. 44 no.8:1131-1138 '65. (MIRA 18:11)

1. Institut morfologii zhivotnykh AN SSSR, Moskva.

ACCESSION NR: AT4026287

S/0000/62/000/000/0003/0009

AUTHOR: Dushin, L. A.; Kibal'skiy, I. K.; Pavlichenko, O. S.

TITLE: Spectroscopic method of measuring proton energy in plasoids

SOURCE: Diagnostika plazmy⁴ (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1969, 2-8

TOPIC TAGS: plasma physics, plasoid, proton, Stark effect, energy distribution, plasma confinement

ABSTRACT: A spectroscopic method is proposed for the measurement of the energy distribution of protons in plasoids. It is free of some of the shortcomings of existing methods in that it does not require that the plasoid be taken out of the working volume to the analyzer. The bremsstrahlung and recombination-radiation spectra of the plasoid are investigated in this method directly, and the proton energy from a Fanning ion source is also measured. The procedure can be used to measure the distribution of the proton energy in plasoids having a density exceeding 10^{13} cm^{-3} and an energy exceeding 100 eV. The tests were made with a continuous Fanning discharge in hydrogen and in a longitudinal magnetic field reaching

Card 1/3

ACCESSION NR: AT4025287

3500 Os, at source voltage up to 2 kV. The spectral distribution of the radiation intensity near the H_β line with $\lambda = 4,061 \text{ \AA}$ was measured. It is shown that the density of the ions in the plasmod can be determined if the exact values of the charge exchange cross sections at the excited levels are known. The plasma density can also be estimated from the Stark broadening of the line. The experimental maximum in the velocity distribution corresponded to an estimated proton energy 30 MeV. The maximum shifts towards higher energy with increasing voltage and with decreasing pressure. Orig. art. has: 1 figure and 10 formulas.

ASSOCIATION: None

SUBMITTED: 19Oct63

SUB CODE: ME

DATE ACQ: 16Apr64

NR REF SOV: 002

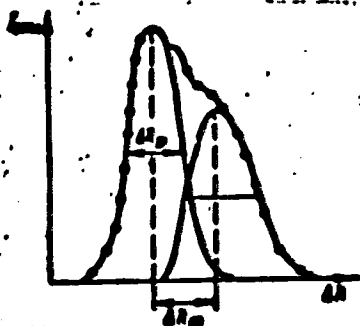
ENCL: 01

OTHER: 004

Card 2/3

ACCESSION NR: AT4025287

ENCLOSURE 01



($\lambda_0 = 0.85 \text{ \AA}$, $\Delta\lambda_0 = 0.05 \text{ \AA}$)

Spectral distribution of
intensity

Card 3/3

ACCESSION NR: AP4028943

S/0057/64/034/004/0590/0596

AUTHOR: Pavlichenko, O.S.; Dushin, L.A.; Nikol'skiy, I.K.; Brshechko, L.V.

TITLE: Macroscopic plasma instability in a reflex discharge

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.4, 1964, 590-596

TOPIC TAGS: plasma, plasma instability, reflex discharge plasma, PIG Reflex, anomalous plasma diffusion, helium plasma

ABSTRACT: Plasma stability and diffusion were investigated in a cold-cathode reflex discharge in a longitudinal magnetic field (PIG Reflex). The discharge took place in a glass tube 5 cm in diameter containing helium at pressures from 5×10^{-4} to 10^{-2} mm Hg. The aluminum electrodes were 44 mm in diameter. The cathodes were separated by 70 cm, and the anodes, provided with 36 mm openings, were mounted 8 cm from their respective cathodes. Potentials up to 2 kV were applied, and currents from 50 to 300 mA were obtained. The longitudinal magnetic field was uniform within 0.5% and could be varied up to 3400 Oe. The following diagnostic instruments or procedures were employed: simple probes; a double electric probe on the axis; 3 cm microwave transmission measurements; electron temperature measurement by observation

Card 1/3

ACCESSION NR: AP4028943

of the intensity ratio of the He II 4686 Å to He I 4921 Å lines; luminous intensity measurements. Electron densities and temperatures of the order of $5 \times 10^{11} \text{ cm}^{-3}$ and 20 eV, respectively, were observed. It was found, in agreement with the observations of J.F.Bonnal, G.Briffod and C.Kanus (Phys.Rev.Let.6,665,1961) that the ion current to the wall of the tube reached a minimum at a certain critical value of the magnetic field and increased in stronger fields. The value of the critical magnetic field increased with helium pressure from about 500 Oe at 10^{-3} mm Hg to 1200 Oe at $5 \times 10^{-3} \text{ mm Hg}$. The electron temperature and density on the axis reached maxima at the critical magnetic field. A radial electric field developed in the plasma at the critical magnetic field and increased with further increase of the magnetic field. Values over 60 mV/cm were observed. Macroscopic motion of the plasma column was observed by rotating mirror time-resolution photography. The column developed helical structure at magnetic fields above the critical, and pulsed at frequencies from 200 to 800 cycles/sec. Density oscillations at frequencies from 20 to 50 kilocycles/sec were observed by microwave and probe measurements. The electron temperature and the luminous intensity decreased monotonically with increasing distance from the axis, and the electron temperature had two maxima, one on the axis and one in the outer portion of the column. The increased ion diffusion at fields above

Card 2/3

ACCESSION NR: AP4028943

the critical field is ascribed to the macroscopic motion of the column. It is suggested that these oscillations were not observed by Bonnal, Briffod and Manus (loc. cit.) because of their very low frequency. The rotation of the column is ascribed to azimuthal drift in the crossed radial electric and longitudinal magnetic fields. The origin of the radial electric field is not understood; several possibilities are briefly discussed. The failure of F.Chen and A.Cooper (Phys.Rev.Let.9,333,1962) to observe the increased diffusion is ascribed to the stabilizing influence of the metal walls of their discharge chamber with respect to the development of large amplitude magnetohydrodynamic instabilities. "In conclusion, the authors consider it their duty to express their gratitude to B.B.Kadomtsev, V.T.Tolek and Ya.B.Faynberg for discussing the results, and to I.Yu.Adamov and V.I.Kompanecko for assistance in the work." Orig.art.has: 1 formula and 10 figures.

ASSOCIATION: none

SUBMITTED: 05Apr63

DATE ACQ: 26Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 003

OTHER: 006

Card 3/3

L 16088-66 EPF(n)-2/EWT(1)/ETC(f)/ENG(m) IJP(c) AT

ACC NR: AP5027660

SOURCE CODE: UR/0051/65/019/005/0674/0679

AUTHOR: Dushin, L. A.; Kononanko, V. I.; Pavlichenko, O. S.; Nikol'skiy, I. K.

ORG: none

TITLE: Damping radiation in the infrared region of the spectrum of plasma under electrodeless induction discharge

94
B

SOURCE: Optika i spektroskopiya, v. 19, no. 5, 1965, 674-679

TOPIC TAGS: plasma diagnostics, hydrogen, germanium, photoresistor, IR radiation

ABSTRACT: The authors investigated the damping radiation in the infrared region of the spectrum of an electrodeless induction discharge of hydrogen. The damping radiation in the region of 1.8 - 9.5 μ m wave length was registered by a germanium photoresistor operating under the temperature of liquid nitrogen. The density of the plasma was determined based on the results obtained from measuring the temperature of plasma electrons and the intensity of damping radiation. The proposed method could be used for diagnostics of a dense plasma. The authors express thanks to A. F. Plotnikov and G. N. Zhishin. Orig. art. has: 6 figures and 8 formulas.

Card 1/2

UDC: 537.525.1-15

2

L 16088-56

ACC NO: AP5027660

SUB CODE: 20 / SUBM DATE: 17Aug64 / ORIG REF: 002 / OTH REF: 004

Card 2/2

92-65 HWY(1)/EPA(sp)-2/EPA(w)-3/REC(1)/TMA(1)-... 07-6/po-4/pab-10/p1-4
AT

ACCESSION NR: AP5009237

8/0057/64/033/001/0056/0061 55

AUTHOR: Zukoy, V.G. / Stepanenko, I.A. / Dushin, L.A. / N'kol'skiy, L.K. / Pavlichenko, V.T. 43

TITLE: Spectroscopic investigation of the plasma in colliding bursts

SOURCE: Zhurnal tekhnicheskoy fiziki, v.35, no.1, 1965, 56-61

TOPIC TAGS: plasma interaction, plasma spectral line, charge exchange

ABSTRACT This paper reports a continuation of work by some of the present authors and others (ZhTF 35,62,1965 [see Abstract AP5003230]) concerning the confinement of plasma injected into a cusp magnetic field. The present work was performed without the magnetic field, and was undertaken to investigate the processes taking place in colliding plasma bursts. Plasma bursts were injected from one or more of four conical plasma guns equally disposed about the periphery of a 20 cm diameter stainless steel tube, and the spectra were observed in both the longitudinal and transverse directions. The time-integrated spectrum was recorded photographically in the range from 2000 to 6000 Å, and the time dependence of the intensity of certain lines was determined with a photoelectric instrument. The plasma bursts had a maximum density

and 1.70

1977-97-6*

ACCESSION NR: APS063237

$2 \times 10^{14} \text{ cm}^{-3}$ and the electron temperature was 4 to 4.5 eV. The velocity of the fast component of a burst was $1.4 \times 10^7 \text{ cm/sec}$, this was followed by a slower "tail". The collision of two plasma bursts led to an increase in the intensity of all spectrum lines and the appearance of lines that were not observed in single bursts. Velocity measurements performed with the photoelectric instrument using the H α 4861, C I 4371 and C II 4267 lines showed that both the carbon ions and the hydrogen atoms moved more rapidly than the carbon atoms. The presence of excited ions in the plasma burst at a considerable distance from the source is discussed, and it is suggested that these are continually formed by a charge exchange mechanism. The ion temperature was determined from the Doppler broadening of the C II 4267 line. Collision of the plasma bursts was found to be accompanied by an increase of the ion temperature. After brief discussion it is concluded that the strong interaction between plasma bursts observed in this and the previous work can be accounted for by Coulomb interaction. "In conclusion, the authors express their gratitude to L. V. Brubachko, A. P. Dolgon and A. A. Kutsyn for technical assistance in performing the work." Orig.art.has: 6 figures.

1 2759 -65

ACQUISITION NR: A98003837

ASSOCIATION: none

SUBMITTED: 12Feb64

INCL: 00

SUB CODE: 1E,09

NR REF SCW: 002

OTHER: 001

00000/1

L 2493-66 EWT(1)/ETC/EPF(n)-2/ENG(m)/EPA(w)-2 IJF(c) A†
ACCESSION NR: AP5020725 UR/0057/65/035/008/1401/1404

AUTHOR: Pavlichenko, O. S.; Dushin, L. A.; Kuznetsov, Yu. K.; Nikol'skiy, I. K.; Adamov, I. Yu. 44,5 44,5 44,5 68 53 44,5

TITLE: Instability of a plasma discharge with oscillating electrons. 2. Anomalous diffusion of plasma 44,5 21, 44, 5

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 8, 1965, 1401-1404

TOPIC TAGS: plasma instability, plasma oscillation, helium plasma, electric discharge, electron oscillation, electron reflection, plasma diffusion, plasma magnetic field

ABSTRACT: The authors have investigated the stability and anomalous diffusion of the plasma of a high voltage PIC reflex discharge with the apparatus described in the preceding paper (ZhTF, 35, 1394, 1965; see abstract AP5020724). In addition to the measurements described in the preceding paper, measurements were made of the charged particle flux to the wall of the chamber, using a double probe, and the plasma column was observed with a rotating mirror. The charged particle flux at first decreased with increasing magnetic field, but at a certain critical field strength the flux began to increase with increasing field strength. The critical

Card 1/3

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9

ACCESSION NUR: AP 5020725

field was that for transition from region II to region III discussed in the preceding paper. When the magnetic field increased through the critical value the plasma density suddenly decreased, the microwave noise suddenly increased, and oscillations of the plasma column were observed with the rotating mirror. The critical magnetic field strength in helium plasmas increased with rising gas pressure from 1000 Oe at 10^{-4} mm Hg to about 1600 Oe at 2×10^{-3} mm Hg. There was no anomaly in the electron temperature at the critical field. These results are compared with the theory of F.Hoh (Phys. Fluids, 6, 1184, 1963), and it is shown that the magnetic field strength at onset of anomalous diffusion is an order of magnitude less than the theory predicts. It is suggested that a turbulent state with a broad spectrum of low-frequency oscillations may arise from the interaction between the plasma and the oscillating electron beam. The authors hope further to pursue their studies of these phenomena. "In conclusion, the authors express their gratitude to X.D. Sinel'nikov for discussing the results and to B.I. Kofonenko and M.Yu. Mazdichanko for assisting with the work." Orig. art. has: 3 formulas and 4 figures.

ASSOCIATION: none

Card 2/3

L 2493-66

ACCESSION NR: AP8020725

SUBMITTED: 16Nov64

NR REF DIV: OCA

ENCL: 00

OTHER: 003

SUB CODE: MB

Bob
Card 3/3

1 21550-56 SNT(1)/EPF(n)-2/ETC(f)/EWG(m) LJP(c) AT/GS
ACC NR: AT6008860 SOURCE CODE: UR/0000/65/000/000/0198/0208

AUTHOR: Dushin, L. A.; Kononenko, V. I.; Pavlichenko, O. S.; Nikol'skiy, I. K.

ORG: none

TITLE: Bremsstrahlung of a θ -pinch plasma in the infrared spectral region 55
211

SOURCE: AN UkrSSR. Magnitnyye lovushki (Magnetic traps). Kiev, Naukova dumka, 1965, 198-206

TOPIC TAGS: bremsstrahlung, plasma pinch, electron temperature, plasma density, IR spectrum

ABSTRACT: The authors review the various methods used for determining the parameters of a plasma from the intensity of Bremsstrahlung. If the receiver design does not permit wavelength adjustment, the absolute intensity of the Bremsstrahlung in the plasma is measured in a definite wavelength range and an independent method is used for determining one of the parameters of the plasma, e. g. the electron temperature, and its variation with time. These data are then used as a basis for determining the plasma density and its variation. The possibilities of using this type of a receiver for plasma diagnosis are discussed. Experiments were conducted which showed that the continuous radiation of a plasma in the near infrared region may be measured simultaneously with the electron temperature to determine the density of the plasma and its

Card 1/2

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variation with time. The sensitivity of this method may be improved by reducing the band of the preamplifier of the recording system and by making the measurements on a plasma in which slower processes take place since this would allow covering a wider density range. Orig. art. has: 5 figures, 4 formulas.

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