

VYALOV, O.S.; IVANOVA, L.V.

Age of rocks in the Bitkov tectonic window, Carpathian Mountains.
Geol. sbor. [Lvov] no.4:43-46 '57. (MIRA 13:2)

1. Institut geologii poleznykh iskopayemykh AN SSSR, L'vov.
(Bystritsa Valley--Foraminifera, Fossil)

IVANOVA, L.V.

Vertical distribution of foraminifera in the Polanica series of the Shechva River and the Dolina region in the Carpathian piedmont region [with summary in English]. Dop. AN URSR no.3:304-306 '58.
(MIRA 11:5)

1. Institut geologii korisnikh kopaln AN URSR. Predstavleno akademikom O.S. Vyalovym.
(Carpathian Mountain region--Foraminifera, Fossil)

SOV-21-58-4-20/29

AUTHOR: Ivanova, L.V.

TITLE: A Spirialis Find in the Polanica Series of the Carpathians
(O nakhodke spirialisov v polyanitskoy serii Karpat)

PERIODICAL: Dopovidi Akademii nauk Ukrain's'koi RSR, 1958, Nr 4,
pp 437-439 (USSR)

ABSTRACT: Seventy-five Spirialis specimens have been discovered in dark-grey foliated carbonate argillites of the Polyanitsa series (Upper Oligocene) at the village Struten'-Vyzhniy on the Chechva river. All the Spirialis are represented by young specimens, the shells of which have one to one-and-half spiral turns. The diameter of the largest spirialis equals 0.16 mm. The only find of a small spirialis in the Forecarpathians thus far was made by N.M. Subbotina at the village Stebnik on the Vorotyshcha river in 1954. The new find of Spirialis is of interest because they were discovered considerably below in sediments in which mollusk fauna has not been encountered thus far. Together with Spirialis there were also plankton foraminifera from the family of Globigerinidae. On the basis of this find, a hypothesis can be advanced that the large-scale perish of young Spirialis occurred probably as a result of an

Card 1/2

A Spirialis Find in the Polyanitsa Series of the Carpathians SOV-21-58-4-20/29

increasing salinity of the basin which existed then on this area. There are 4 photos and 1 Soviet reference.

ASSOCIATION: Istitut geologii poleznykh iskopayemykh AN UkrSSR (Institute of Geology of Mineral Resources of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, O.S.Vyalov

SUBMITTED: June 24, 1957

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Fossil mollusca--USSR 2. Geology--USSR 3. Paleoecology
--USSR

Card 2/2

BYKOVA, N.K.; BALAKHMATOVA, V.T.; VASILENKO, V.P.; VOLOSHINOVA, N.A.;
GRIGELIS, A.; DAIK, L.G.; IVANOVA, L.Y.; KUZINA, V.I.; KUZNETSOVA,
Z.V.; KOZYREVA, V.F.; MOROZOVA, V.G.; MYATLYUK, Ye.V.; SUBBOTINA, N.N.

New genera and species of Foraminifera. Trudy VMIGRI no.115:5-106
'58. (MIRA 11:10)

(Foraminifera, Fossil)

IVANOVA, L. V., Candidate Geolog-Mineralog Sci (diss) -- "The foraminifera of the Upper Oligocene-Lower Miocene deposits of the northeastern slope of the Carpathians and of Ciscarpathia". L'vov, 1959. 19 pp (Acad Sci Ukr SSR, Inst of Geol of Useful Minerals), 150 copies (KL, No 23, 1959, 162)

SUBBOTINA, N.N.; PISHVANOVA, L.S.; IVANOVA, L.V.

Stratigraphy of Oligocene and Mocene deposits of Ciscurpathia
based on the study of formaminifers. Trudy VNIGRI no.153:5-155 '60.
(MIRA 13:7)
(Carpathian Mountain region--Paleontology, Stratigraphic)
(Foraminifera, Fossil)

IVANOVA, L.V.

List of reports made at the meetings of the Lvov Department
of the All-Union Paleontological Society and the Paleontological
Section of the Lvov Geological Society in 1959 and 1960.
Paleont.sbor. [Lvov] no.1:164-165 '61. (MIRA 15:9)
(Paleontology)

IVANOVA, L.V.

Microfaunal complexes in the Galician Series of the Dashava-Zhidachev area in the Ciscarpathians. Dop. AN URSR no.4:520-523 '62. (MIRA 15:5)

1. L'vovskaya geologicheskaya ekspeditsiya trasta "Kiyevgeologiya". Predstavleno akademikom AN USSR O.S.Vyalovym.
(Carpathian Mountain region--Paleontology)

L 3837-66 EMT(1)/T/EED(b)-3 IJP(c)
ACCESSION NR: AF5017496

UR/0368/65/002/005/0558/0561
TTL.534

AUTHOR: ^{44.55} Kheyman, A. S.; ^{44.55} Karaul'shchikova, R. V.; ^{44.55} Volkova, G. S.; ^{44.55} Parfenova, N. M.;
^{44.55} Solov'yev, B. M.; ^{44.55} Vospe, A. F.; ^{44.55} Aleksandrov, I. V.; ^{44.55} Kurepina, G. P.; ^{44.55} Ivanova, L. V.

TITLE: Infrachromatic materials for scientific and technical purposes

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 6, 1965, 558-561

TOPIC TAGS: IR photography, photographic emulsion, photographic processing

ABSTRACT: The article summarizes the photographic properties of new infrachromatic films and plates developed at NIKFI (Scientific Research Institute of Motion Picture Photography) to increase the stability and sensitivity of infrachromatic materials used for spectroscopy, astro-photography, and other scientific purposes. Tables of the photographic characteristics of the films and plates are listed, and spectral sensitivity curves are given for all the emulsions. The appropriate development techniques are also discussed. The individual films are compared with those produced by Eastman Kodak. It is recommended in the conclusion that the available assortment of infrachromatic emulsions (11 types in the USSR) be reduced, since Eastman produces only four types which seem to meet all the requirements. Orig. art. has: 3 figures and 4 tables.

Card 1/2

L 3837-66
ACCESSION NR: AP5017496

ASSOCIATION: none

SUBMITTED: 16Feb65

NR REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: CP, CP

beh
Card 2/2

STROYKOVA, N.G.; IVANOVA, L.V.

Lipid and cholesterol content of the rabbit aorta in experimental atherosclerosis. Vop. med. khim. 10 no.4:376-379
Jl-Ag '64. (MIRA 18:4)

1. Laboratoriya eksperimental'noy farmakoterapii otdela farmakologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

ISMAILOV, R.G.; MAMEDOV, M.A.; SPEKTOR, Sh.Sh.; IVANOVA, L.V.;
KORNEYEV, M.I.; SULTANOV, Z.A.; SHCHELKONOGOV, I.A.

Petroleum refining industry of Azerbaijan on the threshold of
a glorious jubilee. Khim. i tekhn. topl. i masel 9 no.11:15-19
N 164 (MIRA 18:1)

IVANOVA, L.V.; STRASHININ, A.I.

Radiation therapy in thyroid cancer. Med. rad. 9 no.8:9-15 Ag '64.
(MIRA 18:4)

Radiokhirurgicheskoye otdeleniye (zav. A.I.Strashinin) Tsentral'nogo
nauchno-issledovatel'skogo instituta meditsinskoy radiologii
Ministerstva zdravookhraneniya SSSR.

STRASHININ, A.I.; IVANOVA, L.V.

Immediate results of external X-ray and gamma irradiation in the treatment of thyroid cancer. Vop onk. 10 no.8:110-113 '64.

(MIRA 18:3)

1. Iz radio-khirurgicheskogo otdeleniya (zav. -- starshiy nauchnyy sotrudnik - A.I.Strashinin) Tsentral'nogo nauchno-issledovatel'skogo rentger radiologicheskogo instituta Ministerstva zdravookhraneniya (dir. - Ye.I.Vorob'yev) SSSR, Leningrad. Adres avtorov: Leningrad, ul. Rentgena, d.6, Tsentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskii institut Ministerstva zdravookhraneniya SSSR.

KANEVSKAYA, Ye.A.; ZUBOV, P.I.; IVANOVA, L.T.; LITVINOV, Yu.S.

Temperature dependence of light scattering and viscosity of
polymethacrylic acid solutions. Vysokom. soed. 6 no.6(1964)-987
Je 164 (CMA 1964)

1. Institut fizicheskoy khimii AN SSSR.

SERAYA, N.I.; ZUBOV, P.I.; IVANOVA, L.V.

Thixotropy in organic suspensions of bentonite and aerosil.
Koll. zhur. 27 no.2:259-263 Mr-Apr '65. (MIRA 18:6)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

IVANOVA, L. V.

"Dependence of the Behavior of the Larvae of *Anopheles maculipennis* (Meig.) and *Anopheles plumbeus* (Steph) on the Living Conditions of the Species." Cand Biol Sci, Acad Med Sci USSR, Moscow, 1953. (RZhBiol, No 1, Sep 54)

30: Sum 432, 29 Mar 55

USSR/Zooparasitology - Mites and Insects as Disease Vectors. G-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, 43444

Author : Ivanova, L.V.

Inst : -
Title : Some Data on Biology of Undisturbed Population of *A. superpictus*.

Orig Pub : Sb. rabot po malyurii i gelmintozam. No 1, Stalinabad, 1956, 46-51.

Abstract : A report on location of nests of egg deposits in the valley of Luchobki River (Varzob District of Tadzhik SSR); on factors which determine the numbers of *A. superpictus* in different settlements; on distribution of mosquitoes and malarial infection in different settlements; on the course of seasonal prevalence and comparative proportion of sexes among mosquitoes gathered in daylight in settlements located at various distances from nests of egg deposits; on some data of physiological composition of

Card 1/2

IVANOVA, L.V.

Some data on the effect of light on the exit of mosquitoes from
a building treated with DDT preparations. Med. paraz. 25 no.1:
67-68 Ja-M '56 (MLRA 9:6)

1. Iz entomologicheskogo otdela Instituta malyarii, meditsinskoy
parazitologii i gel'mintologii Ministerstva zdravookhraneniya SSSR
(dir. instituta-prof. P.G. Sergiyev, zav. otdelom-prof. V.N.
Beklemishev)

- (LIGHT, eff.
on mosquitoes flying out from DDT treated room)
- (MOSQUITOES
eff. of light on mosquitoes flying out from DDT
treated room)
- (DDT, eff.
same)

IVANOVA, L. V.

"On the Chemoreceptors of Blood-sucking Culicinae."

"Some dates on the regularities in the spread of Anopheles maculipennis
in residential areas depending on the topography of the terrain"

report submitted but not presented at the Intl. Congress of Entomology,
Vienna, Austria, 17-25 Aug 1960

IVANOVA, L.V.; STAVROVSKAYA, V.I.

Preliminary data of field studies of dethyltoluanides. Med.paraz.
i paraz.bol 29 no.5:564-570 S-0 '60. (MIRA 13:12)

1. Iz entomologicheskogo otdela i otdela sinteticheskikh pre-
paratov Instituta meditsinskoy parazitologii i tropicheskoy
meditsiny imeni Ye.I. Martsinovskogo Ministerstva zdoravookhra-
neniya SSSR (dir. instituta - prof. P.G. Sergiyev, zav. otdelom
prof. V.N. Beklemishev i prof. V.I. Stavrovskaya).
(INSECT BAITS AND REPELLENTS) (TOLUAMIDE)

IVANOVA, L.V.

Role played by thermokinesis in animal distribution in the temperature gradient as exemplified by an analysis of temperature responses of the larvae of *Anopheles plumbeus*. Zool. zhur. 41 no.9:1345-1352 S '62. (MIRA 15:11)

1. Institute of Medical Parasitology and Tropical Medicine,
Ministry of Public Health of the U.S.S.R., Moscow.
(Temperature--Physiological effect)
(Mosquitoes--Larvae)

IVANOVA, L.V.; KRUS, G.I.

Strength, adhesion and deformation characteristics of
perchlorovinyl coatings. Lakokras.mat. 1 ikh prim. no.2:30-32
'64. (MIRA 17:4)

IVANOVA, L.V.

Basic causes of yarn breakage in ball warping of silk, Khim.
volok. no.4:60-61 '64. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Iskusstvennogo
volokna.

IVANOVA, L.V.

Chemoreception of insects; a survey of the literature. Med.
paraz. i paraz. bol. 33 no.5:608-612 S-0 '64.

(MIRA 18:4)

ACC NR: AP6021896 (A,N) SOURCE CODE: UR/0358/66/035/003/0320/0323

AUTHOR: Ivanova, L. V.; Stavrovskaya, V. I.

ORG: Entomology Division and Division of Synthetic Compounds, Institute of Medical Parasitology and Tropical Medicine, Ministry of Health im. Ye. I. Martsinovskogo, SSSR, (Entomologicheskii otdel i otdel sinteticheskikh preparatov Instituta meditsinskoy parazitologii i tropicheskoy meditsiny Ministerstva zdravookhraneniya SSSR)

TITLE: Preliminary data on the use of a new insect repellent, M-toluic acid piperidylamide

SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35, no. 3, 1966, 320-323

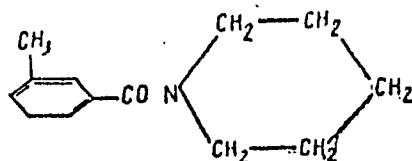
TOPIC TAGS: insect repellent, ~~organic chemistry~~, organic synthetic, ^{PROCESS} INSECTICIDE

ABSTRACT: The insect-repelling properties of the N-piperidylamide of m-toluic (R-228) acid were tested against *Aedes sp.* and *Mansonia richiardi* mosquitoes. A 12-25% alcoholic solution was an effective repellent. When added to standard repellents, R-228 lengthens their effectiveness. The formula for R-228 is shown below;

Card 1/2

UDC: 615.778.195-07

ACC NR: AP6021896



it is a colorless liquid, with boiling point 154—155°, specific gravity 1.0598, n_D^{20} -1.5495. It is easily soluble in alcohol, benzene, acetone, and other organic solvents, and poorly soluble in water in which it forms weakly alkaline solutions. [WA-50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: 08Aug61/ ORIG REF: 003/ OTH REF: 001/

Card 2/2

CHUVAYEV, V.F.; IVANOVA, L.V.; ZUBOV, P.I.

Nuclear magnetic resonance study of the process of hardening of an
unsaturated polyester resin. Vysokom.sped. 6 no.8:1501-1504 Ag '64.
(MIRA 17:10)

1. Institut fizicheskoy khimii AN SSSR.

IVANOVA, L.V.

Effect of soluble humates and humoammophos on corn in turf-Podzolic
soils. Bot.; issl. Bel. otd. VBO no.6:48-53 '64. (MIRA 18:7)

BRISHCHENKO, V.Ya.; IVANOVA, L.V.; RABINOVICH, S.I.

Chromatographic analysis of the fraction C₁-C₄. Neftepar. i
neftekhim. no.3:37-38 1965. (MIRA 18:6)

1. Gromenskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i
proyektiro-konstruktor'skogo instituta kompleksnoy avtomatizatsii
neftyanoy i gazovoy promyshlennosti.

IVANOVA, L. YE.

Ivanova, L. Ye. and Puzik, V. I. - "Pathomorphological investigations of tubercular meningitis treated with streptomycin", Trudy Akad. med. nauk SSSR, Vol. II, 1949, p. 210-38.

SO: U-4329, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949).

PLATONOV, G.Ye., professor; IVANOVA, L.Ye.

Modifications in the lymph nodes in tuberculosis. Probl.tub. no.2:
52-60 Mr-Apr '55. (MLRA 8:6)

1. Iz patofiziologicheskoy laboratorii (zav. -prof. G.Ye.Platonov)
i patomorfologicheskoy laboratorii (zav. -prof. V.I.Puzik) Inatituta
tuberkuleza Akademii meditsinskikh nauk SSSR (dir. Z.A.Lebedeva).

(LYMPH NODES, in various diseases,
exper. tuberc., pulm.)

(TUBERCULOSIS, PULMONARY, experimental,
lymph nodes in)

IVANOVA, L. Ye.

"The Influence of Azotobacter and Associated Microflora on the Phosphorus Regime of the Soil and on the Yield of Agricultural Plants." Cand Biol Sci, Gor'kiy Agricultural Inst, Min Higher Education USSR, Gor'kiy, 1955. (KL, No 12, Mar 55)

So: Sum. No 570, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

SOV/137-57-11-20780

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 20 (USSR)

AUTHORS: Povarov, A.I., Ivanova, L.Ye.

TITLE: Testing Hydrocyclones and Turbocyclones at the Balkhash Dressing Mill (Ispytaniye gidrotsiklonov i turbotsiklonov na Balkhashskoy obogatitel'noy fabrike)

PERIODICAL: Obogashcheniye rud, 1956, Nr 6, pp 34-35

ABSTRACT: Tests were run of simple conical three-product cyclones, cylindrical hydrocyclones (H), and turbocyclones with top, side, and bottom discharge of the dust. The tests were run with 2 types of feed: Feed from a control classifier providing 46-48% 74-micron undersize and 35-39% solids, and crude concentrate after grinding in the mill, with 65-75% 74-micron undersize and 35-39% solids. The tests show that turbocyclones do not yield any better classification results than H. The best indices both as to output and quality of classification are obtained with conical and three-product H. A table of mean indices for the functioning of the equipment is adduced. A. Sh.

Card 1/1

POVAROV, A.I.; IVANOVA, L.Ye.

Comparing various makes of hydrocyclones. Obog.rud 3 no.5:22-
31 '58. (MIRA 12:5)

(Separators (Machinery))

POVAROV, Anatoliy Ivanovich. Primala uchastiye IVANOVA, L.I.;
VENKOVA, M.D., otv. red.; ROMANOVA, L.A., red.izd-va;
PROZOROVSKAYA, V.L., tekhn. red.

[Hydrocyclones] Gidrotsiklony. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po gornomu delu, 1961. 265 p. (MIRA 15:1)
(Separators (Machines))

POVAROV, A.I.; IVANOVA, L.Ye.

Formulas for the calculation of hydrocyclones. Obog.rud 4
no.3:57 '59. (MIRA 14:8)
(Separators (Machines))

GOLOVANOV, G.A., gornyy inzh.; IVANOVA, L.Ye., gornyy inzh.

Practice of using arc-shaped screens in the Olenegorsk Ore-Dressing Plant. Gor. zhur. no.2:63-64 F'62. (MIRA 17:2)

1. Olenegorskiy gorno-obogatitel'nyy kombinat (for Golovanov).
2. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut mekhanicheskoy obrabotki poleznykh iskopayemykh (for Ivanova).

M.
CA

52

Preparation of pink alizarin lakes. A. K. Mutants, and M. Ivanova. *Bull. Obmena Opyt. Laboratorii* Nov. 1940, No. 6, p. 11. Alizarin and its derivatives are converted into red and pink lakes with the aid of hydrated Al_2O_3 , $AlPO_4$, and calcium salts and also with the aid of sulfonated castor oil. Light-stable red alizarin lakes are already produced in U. S. S. R. while the pink ones which are highly desirable for artists are not. A pink lake was prepared from alizarin No. 1 (U. S. S. R.). Hydrated Al_2O_3 was pptd. by a sufficient amt. of soda. Cooking was carried out at a pH of 3.2-5.5. A study of light stability of these pigments is being made. David Aclyon

AS 6-35 8 METALLURGICAL LITERATURE CLASSIFICATION

CA

12

Meat-peptone bouillon. M. Ivanova (Gorkh Dairy Trust). *Meischnys Press*, 13, No. 1, 40(1932).—Cattle meat is boiled with water 0.5 hr. after 16-18 hrs. soaking, filtered, and mixed with 1% peptone and 0.5% NaCl after adjusting pH to about 7 with Na_2CO_3 . Some 1.5-2% agar can be added and the filtered soda is sterilized in storage bottles.

O. M. Kozlapod

IVANOVA, M.

Build quicker and cheaper. Sov. profsoiuzy 7 no.6:30-32 Nr '59.
(MIRA 12:6)

1. Predsedatel' postroyechnogo komiteta tresta "Mosstroy" No.19.
(Moscow--Construction workers)

IVANOVA, M.

Concern for children. Sov. profsoiuzy 6 no. 9:50-51 Ag '58.

(MIRA 11:8)

1. Zamestitel' predsedatelya komissii po rabote sredi detey i podrostkov komiteta profsoyuzya Magnitogorskogo metallurgicheskogo kombinata.

(Magnitogorsk--Children)

MAL'TSEV, P.; IVANOVA, M.

A health resort of great importance to the entire Union. Zhil.-komm.
khoz. 9 no.8:8-10 '59. (MIRA 12:11)

1. Zavednyushchiy gorkomkhozom g. Sochi (for Mal'tsev). 2. Starshiy inzhener gorkomkhoza g. Sochi (for Ivanova).
(Sochi--Municipal services)

ACCESSION NR: AP4042613

B/0005/64/000/006/0010/0014

AUTHOR: Bekyarov, Em. (Engineer); Ivanova, M. (Engineer); and Bluskov, Ya.

TITLE: Increasing the lifetime of metal cutting tools by ultrasound application during heat treatment

SOURCE: Mashinostroene, no. 6, 1964, 10-14

TOPIC TAGS: ultrasound, impact strength, hardness, microstructure, metal cutting, tool life

ABSTRACT: The authors attempt to give a theoretical explanation of steel quality improvement by ultrasound application during heat treatment. Ultrasound facilitates secondary martensite transformation and provides equilibrium in the metal structure which in turn imparts better mechanical properties to the metal. The durability of the tools increases from 160 to 200 % according to the results of the experiments carried out at the "Bolshevik" plant in Gabrovo. The authors also give detailed data on the process used in the investigation of various types of tools and steels. Orig. art. has: 10 figures.

Card 1/2

ACCESSION NR: AP4042613

ASSOCIATION: TSNITMASH

SUBMITTED: 00

ENCL: 00

SUB CODE: IE, MM

NO REF SOV: 005

OTHER: 003

2/2

BEKIAROV, Em., inzh.; IVANOVA, M., inzh.; BLUSKOV, IA.

Increasing the durability of metal-cutting instruments by
applying ultrasound in their thermal treatment. Mashinostroem
13 no.6:10-14 '64

GIZOV, G., IVANOVA, M.

Vitamin B₆ therapy in chorea. Vop.okh.mat. i det. 3 no.3:56-59
Jl-Ag '58 (MIRA 11:8)

1. Iz kafedry detskikh bolezney VMI, Sofiya.
(GHORRA)
(PYRIDOXINE)

IVANOVA, M.

RACHEV, L., Prof.; GIZOV, T.; MARINOV, D.; STAMEVA, I.; IANJIVA, T.;
IVANOVA, M., kand. na med. nauki; DAMIANOVA, M., kand. na med. nauki

Experiment with determination of conditioned reflex action in
rheumatism in children prior and after sleep therapy. Suvrem.
med., Sofia 7 no.11:23-34 1956.

1. Iz Katedrata po detski bolesti pri VMI-Sofia (Zav. katedrata:
prof. L. Rachev).

- (SLEEP, therapeutic use,
rheum. in child., eff. on conditioned reflex action (Bul))
- (RHEUMATISM, in infant and child,
sleep ther., eff. on conditioned reflex action (Bul))
- (REFLEX, CONDITIONED,
eff. of sleep ther. in rheum. in child. (Bul))

GIZOV, G.; IVANOVA, M.

Use of cortisone in the treatment of rheumatism in children.
Suvrem. med., Sofia 7 no.11:59-65 1956.

1. Iz Katedrata po detski bolesti pri VMI -Sofia (Zav.
katedrata: prof. L. Rachev).

(RHEUMATISM, in infant and child,
ther., cortisone (Bul))

(CORTISONE, therapeutic use,
rheum. in child. (Bul))

IVANOVA, M.,

Course of postparoxysmal stage of rheumatism in school children
in various economical conditions. *Sovrem. med.*, Sofia 6 no.11:
61-66 1955.

1. Iz Katedrata po detski infektsii na II moskovski meditsinski
institut I. V. Stalin. (nauchen rukovoditel: prof. D. D. Lebedev).
(RHEUMATISM, in infant and child,
postparoxysmal stage. (Bul))

GIZOV, T.; IVANOVA, M.; IANEVA, T.; STOIANOVA, L.; DAMIANOVA, TSV.

The frequency and course of rheumatism in pre-school and school age.
Nauch. tr. vissh. med. inst. Sofia 40 no.1:177-190 '61.

1. Predstavena ot prof. L. Rachev, rukovod. na Katedrata po detски
bolesti.

(RHEUMATIC FEVER in inf & child)

YANEVA, T.; IVANOVA, M.; DAMYANOVA, TS.

Sinobronchitis in childhood. *Pediatrics* 4 no.7:24-26 J1'63

(MIRA 16:12)

1. Iz kafedry detskikh bolezney (rukovoditel' - prof. L.Rachev)
Vysshego meditsinskogo instituta, Sofiya.

IVANOVA, M.

A literary treasure which should be fully utilized. Duvomebel
prom 7 no.6:38-39 N-D '64.

1. Chief, Library of the Higher Technical Institute of Forestry,
Sofia.

ATANASOV, A.; ABADZHIYEV, P.; IVANOVA, M. [translator];
LEBEDEVA-DANOVA, M. [translator]; LEBEDEVA-DANOVA, M.
[translator]; DIMITROV, St., prof., red.; DRAGOYCHEV, Ch.
SLAVOV, B., tekhn. red.

[Anesthesiology] Anesteziologiya. 3. izd. Sofia, Meditsina i
fizkul'tura, 1963. 460 p. (MIRA 16:12)
(ANESTHESIOLOGY)

IVANOV, I. A.

Dissertation: "Pseudo-Riemannian Spaces Containing Fields of Constant and Recurrent Tensors." Cand Phys-Math Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 28 May 54. Veche nyaya Moskva, Moscow, 19 May 54.

SO: SUM 284, 26 Nov 1954

KOVALEVA, E. P., RYBALTOVSKIY, O. V., IVANOVA, M. A. and DEDASH, V. G.

"Examination of swine and cattle as to their complement fixation reaction to toxoplasmosis"

Veterinariya, vol. 39, no. 8, August 1962 pp. 24

TELYATNIKOVA, G.N.; IVANOVA, M.A.; DOLZHENKOVA, A.M.

Testing growth regulating substances for reducing the
preharves falling off of the Antonovka variety of apples.
Kons.i ov.prom. 15 no.4:35-38 Ap '60. (MIRA 13:6)

1. Tsentral'nyy-nauchno-issledovatel'skiy institut
konservnoy i ovoshchesushil'noy promyshlennosti (for
Telyatnikova, Ivanova). 2. Sovkhoz imeni XV-letiya
Oktyabrya Lipetskogo sovnarkhoza (for Dolzhenkova).
(Apple)

IVANOVA, M.A.; KLYUYEVA, A.D., dotsent, zaveduyushchiya kafedroi marksizma-leninizma Moskovskogo farmatsevticheskogo instituta; DOBRYNINA, V.I., dotsent, direktor Moskovskogo farmatsevticheskogo instituta.

I. V. Stalin's work "Economic problems of socialism in the U.S.S.R." is a great contribution to the treasure house of theories of Marxism and Leninism. Apt, delo 2 no.2:7-13 Mr-Ap '53. (MLRA 6:5)

1. Kafedra marksizma-leninizma Moskovskogo farmatsevticheskogo instituta Ministerstva zdravookhraneniya SSSR. (Economics)

S/573/62/000/007/003/015
D201/D308

3.1710

AUTHORS: Yegorov, V.P., Ivanova, M.A. and Sabinin, Yu.A.
TITLE: Coordinate transformation systems for automatic position angle determination, based on transformer resolvers

SOURCE: Akademiya nauk SSSR, Institut elektromekhaniki. Sbornik rabot po voprosam elektromekhaniki. no. 7, 1962. Avtomatizatsiya, telemekhanizatsiya i priborostroyeniye, 171-180

TEXT: The authors describe the circuits and analyze the operation of coordinate transformation devices PK-VII (PK-VII) used with systems of automatic determination of the position angle p in astronomical instruments and discuss the results of their investigation on laboratory analogs. There are two versions of these devices: model PK-VII A operates with equatorial coordinates t, δ , the other, PK-VII B, with azimuthal coordinates A, Z . Both are based on transformer resolvers, operating as coordinators, coordinate transformers or references. The results of laboratory investigations of the per-
Card 1/2

✓B

KOVALEVA, Ye.P.; RYBALTOVSKIY, O.V.; IVANOVA, M.A.; DEDASH, V.G.

Complement fixation reaction for toxoplasmosis in swine and
cattle. Veterinariia 39 no.8:24-26 Ag '62. (MIRA 17:12)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619220010-0

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619220010-0"

IVANOVA, M. A.

IVANOVA, M. A. --"Formation of Skin in Iron Nickel Alloys at High Temperatures."
*(Dissertations for Degrees in Science and Engineering Defended at USSR Higher
Educational Institutions) Leningrad Order of Lenin State University A. A. Zhdanov,
Leningrad, 1955

SO: Knizhnaya Letopis', No.25, 13 Jun 55

* For Degree of Candidate in Chemical Sciences

IVANOVA M.A.
P. 2, 4

PHASE I BOOK EXPLOITATION

545

Leningrad. Universitet

Skorost' okalinoobrazovaniya na metallakh i splavakh (Rate of Scale Formation in Metals and Alloys) Pt. 2. [Leningrad] 1957. 238 p. [Series]: (Its: Uchenyye zapiski, no. 227) [Series]: (Leningrad. Universitet. Khimicheskiiy fakultet. Uchenyye zapiski. Seriya khimicheskikh nauk, vyp. 17) 2,150 copies printed.

Resp. Ed.: Tikhomirov, V. I.; Ed.: Shemeleva, Ye. V.; Tech. Ed.: Vodolagina, S. D.

PURPOSE: This collection of articles is intended for scientific workers, engineers and technicians interested in the problem of scale resistance of metals and alloys as well as in the more general problem of kinetics of heterogeneous processes.

COVERAGE: The collection is a continuation of a similar work published in 1954 by the same institution (Uchenyye zapiski LGU, No. 175, 1954). The articles describe experimental and theoretical work on the kinetics of oxidation of iron, manganese and nickel, and of alloys of iron and chromium, nickel and manganese, in various gaseous media. Individual articles are briefly reviewed under Table of Contents, below. No personalities are mentioned.

Card 1/10

Rate of Scale Formation in Metals and Alloys

545

TABLE OF CONTENTS:

Introduction

3

Ipat'yev, V. V. (Deceased) and Sibirskaya, V. V.

Kinetics of Scale Formation on Iron-chromium Alloys at Elevated
Temperatures in Water Vapor. Structure and Composition of Scale

5

The authors try to establish a connection between the rate of oxidation of various iron-chromium alloys and the structure of the scale. Five grades of steel, containing 3, 6, 13, 16 and 30 percent chromium, were studied. The structure of the scale was studied with the aid of the micrographic method in conjunction with chemical and X-ray analyses. The temperature regime varied from 500° to 1300°C. Results of experiments with each type of steel are summarized at the end of the article. There are 21 references, 10 of which are Soviet, 8 English, and 3 German.

Ipat'yev, V. V. (Deceased), Ivanova, M. A. and Milyuts, G. B.

Scale Formation on 25 Percent Nickel Steel in Air-Containing Water Vapor
and Sulfur Dioxide

48

Card 2/10

Rate of Scale Formation in Metals and Alloys

545

The purpose of the experiments described in this article was to determine the effect of water vapor and sulfur dioxide on the process of high-temperature oxidation of nickel and nickel-steel. Nickel and nickel-steel samples were placed in a furnace and exposed to dry air, humid air, 100 percent water vapor, and mixtures of humid air and sulfur dioxide at temperatures ranging from 750° to 980°C. for 40 to 120 hours. The scale formed under these conditions was studied and it was concluded that a 10-15 percent increase in water vapor in the case of the first two oxidizing media resulted in an appreciable increase in the rate of oxidation of a given steel. On the other hand, 1-5 percent addition of sulfur dioxide to the moist air at temperatures ranging from 750-800°C. did not have any appreciable effect on the rate of scale formation on nickel and 25 percent nickel-steel samples. Examination of the scale showed that its structure and the sequence of outer layers are similar to that of the scale formed on iron under analogous oxidation conditions. There are 7 references, 5 of which are Soviet, 1 English, and 1 German.

Card 3/10

Rate of Scale Formation in Metals and Alloys

545

Ivanova, M. A. and Ipat'yev, V. V. (Deceased)

Composition and Structure of Scale on Iron-Nickel Alloys

59

The authors describe the phase and chemical composition of scale on binary Armco iron-electrolytic nickel alloys containing 10, 15, 25, 40, 50, 70, 80 and 90 percent nickel. Dry air was used as the primary oxidizing gas medium although carbon dioxide was also used in a few instances. Exposure lasted from 40 to 100-120 hrs. The temperature varied from 800°- 1000°C. Micrographic, chemical and X-ray analyses were employed. It is shown that in case of 10, 15 and 25 percent alloys selective oxidation of iron takes place. The scale on 10 and 15 percent alloys is characterized by a relatively thin FeO layer. In the case of 25 percent alloy the homogeneous FeO layer disappears. Nickel concentrates in unoxidized form in separate grains of the alloy, forming thereby a heterogeneous portion of the scale. In alloys containing from 40 to 90 percent nickel, both components react in the process of scale formation. The NiO content increases with the increases of the nickel content of the alloy. There are 11 references, 8 of which are Soviet, 2 French and 1 English.

Card 4/10

Rate of Scale Formation in Metals and Alloys

545

Ipat'yev, V. V. (Deceased) and Smirnova, Ye. K.

Kinetics of Manganese Oxidation at Elevated Temperatures in Dry Air, Water Vapor and Carbon Dioxide. Composition and Structure of the Scale

77

The authors present a detailed study of the oxidation rate of manganese in dry air, water vapor and carbon dioxide at temperatures ranging from 500-1000°, 670-970° and 700-980°C respectively. The micro-graphic method was used in the study of the scale and the Volhardt and Lunge methods were employed in the chemical analysis of the manganese contents of the scale. The X-ray method was used in determining the phase composition of the scale. The results of the experiments show that the oxidation rate of manganese follows a parabolic equation and is a diffusion process. The relationship of oxidation rate to temperature may be represented by a straight-line equation. The scale obtained in dry air at 670-800°C. consists of three oxides: MnO , Mn_2O_3 and Mn_3O_4 ; at temperatures of 800-1000°C, it consists of two oxides: MnO and Mn_3O_4 . The content of MnO increases as the temperature rises. Scales formed on manganese in water vapor and carbon dioxide are very much alike and consist of MnO and Mn_3O_4 . There are 12 references, 6 of which are Soviet, 3 German, 2 English and 1 Italian.

Card 5/10

Rate of Scale Formation in Metals and Alloys 545
Smirnova, Ye. K. and Ipat'yev, V. V. (Deceased)
Rate of Scale Formation on Manganese-Iron Alloys in Dry Air and Water Vapor 100

The authors discuss the rate of scale formation of manganese-iron alloy samples. The samples tested in dry air at 670 - 930°C contained 2, 6, 27 and 50 percent manganese. Those tested in water vapor at 680 - 970°C. contained 20, 34, 57 and 68 percent manganese. Composition of scale formed on these samples is also discussed. Micrographic, chemical and X-ray analyses were employed. Results of these tests and the authors' conclusions are given at the end of the article. There are 37 references, 12 of which are Soviet, 13 English, 4 German, 4 Italian, 3 French and 1 Swedish.

V.I. Tikhomirov, Ipat'yev, V. V. (Deceased) and Il'inskaya, O. V.

Effect of Water Vapor and Sulfur Dioxide on the Oxidation Rate of Iron
in Air at an Elevated Temperature 126

Card 6/10

Rate of Scale Formation in Metals and Alloys

545

Some experimental data are presented on the kinetics of oxidation of 99.47 percent Armco iron at an elevated temperature in air containing various admixtures of water vapor and sulfur dioxide. A diagram and a description of the apparatus used in these experiments to produce the desired mixtures of water vapor, air and sulfur dioxide are given. A micrographic examination of the scale was made. It was shown that an increase of water vapor from 0 to 4 percent increases appreciably the rate of scale formation and thickness of the wüstite layer. A further increase of water-vapor content has no practical effect on the rate of scale formation. An increase of sulfur dioxide content from 0 to 4.4 percent in air containing more than 4 percent of water vapor at 720°C. has no marked effect on the rate of scale formation nor on the composition of the scale. There are 9 references, 7 of which are Soviet, and 2 English.

Tikhomirov, V. I. and Ilinskaya, D. V. Role of Iron and Oxygen Diffusion in the Formation of Scale on Iron

143

Card 7/10

Rate of Scale Formation in Metals and Alloys

545

The purpose of the experiments described in this article was to establish the relative rate of diffusion of iron and oxygen during an oxidation process occurring in samples of Armco iron, wüstite and magnetite, covered with a film of various inert elements, i. e., nickel, copper, silver and gold. It was shown that 1) the wüstite layer of the scale in humid and in dry air develops principally because of the diffusion of iron; 2) 78 percent of the magnetite layer of the scale is formed because of the diffusion of oxygen and only 22 percent of it because of the diffusion of iron; 3) the hematite layer of the scale grows almost exclusively due to the diffusion of oxygen. There are 10 references, 7 of which are Soviet, 2 English and 1 Polish.

Tikhomirov, V. I., Ipat'yev, V. V. (Deceased), and Lagutina, A. G.
Investigation of the Wüstite Homogeneity Field at 980°C.

151

The method and the apparatus employed in the investigation are described. The relationship between the composition of the gas phase and the composition of wüstite is established. The boundaries of the wüstite field at 980°C. range from 75.3 percent to 77.95 percent of iron. The data obtained are in agreement with data obtained by L.S. Darken and R. W. Gurry. There are 9 references, 4 of which are Soviet, 3 English, 1 French and 1 Swedish.

Card 8/10

Rate of Scale Formation in Metals and Alloys

545

Tikhomirov, V. I. Determination of the Diffusion Coefficient of Iron Through Wüstite

163

On the basis of previously obtained data on the oxidation of iron in water vapor, in a mixture of water vapor and hydrogen, and in dry air, the diffusion coefficient of iron through wüstite during scaling is calculated. There are 22 references, 13 of which are Soviet (including one translation), 7 English, 1 Polish and 1 Swedish.

Tikhomirov, V. I. and Ilinskaya, O. V. Wüstite Oxidation Rate at Elevated Temperatures

177

The authors discuss the theory of the process of scaling and develop an equation for calculating the oxidation rate of wüstite. They determine experimentally the oxidation rate of wüstite in humidified air at temperatures ranging from 800 to 1,100°C, and the rate of growth of magnetite and hematite layers during the process of the oxidation of wüstite. They show that the humidity of air does not markedly affect the oxidation rate of wüstite and that the experimental data are in harmony with theoretical deductions. There are 5 references, all Soviet.

Card 9/10

Rate of Scale Formation in Metals and Alloys

545

Tikhomirov, V. I. Theory of the Oxidation Rate of Iron and Iron Alloys at an Elevated Temperature. 3. Oxidation of Iron Alloys

192

The author analyzes the most important characteristics of scaling on iron alloys and shows that in many instances equations found for scaling on pure metals can be used for scaling on binary alloys. He develops an equation for quantitative comparison of the oxidation rates of iron and iron alloys and gives an analysis of experimental data on the oxidation kinetics of iron alloys with chromium, silicon and nickel. There are 28 references, 20 of which are Soviet (including one translation), 7 English and 1 French.

AVAILABLE: Library of Congress

Card 10/10

GO/mas
10-11-58

CHIRIKOV, S.A. ; MASHINA, G.A., FRANKA, M.A. ; FROLOVA, M.A.

Spectrophotometric study of complex formation (II) of cobalt in
aqueous solution. Part 2. Vestn. LGU. Ser. Khim. 196-198, 1961.
(MIRA 17:11)

VINNITSKAYA, M.G.; IVANOVA, M.A.

Ideological indoctrination of professors and teaching personnel at the
Moscow Pharmaceutical Institute. Apt.d.10 no.4:3-8 JI-ag '53. (MLBA 6:8)
(Communist education)

KRASNOGORSKIY, N.N.; PRATUSEVICH, R.M.; IVANOVA, M.A.; KUROVA, O.V.;
SLOBODZHINSKAYA, I.S.

Characteristics of unconditioned radiating reflexes in acute
poliomyelitis in children. *Pediatrics* no.1:58-65 Ja-I '54.

(MLRA 7:3)

1. Iz otdela fiziologii i patofiziologii vysshey nervnoy deyatel'-
nosti cheloveka Instituta eksperimental'noy meditsiny Akademii
meditsinskikh nauk SSSR i nervnoy kliniki Nauchno-issledovatel'-
skogo pediatricheskogo instituta. (Poliomyelitis) (Reflexes)

IOFF, I.G. [deceased]; IVANOVA, M.A.

Siphonaptera of Armenia. Zool.sbor. no.9:21-31 '56. (MLRA 9:8)
(Armenia--Fleas)

IVANOVA, H.A.

The 100th anniversary of the birth of the Japanese microbiologist
Shibasaburo Kitazato. Vest. AMN SSSR 12 no.2:89-90 '57. (MIRA 10:10)
(KITAZATO, SHIBASABURO, 1856-1931)

IVANOVA, M.A.

In the Presidium of the Academy of Medical Sciences of the U.S.S.R.
Vent. AMN SSSR 13 no.5:82-84 '58 (MIRA 11:6)
(ACADEMY OF MEDICAL SCIENCES OF THE U.S.S.R.)

IVANOVA, M.A.

In the Presidium of the Academy of Medicine of the U.S.S.R.
Vest. AMN SSSR 13 no.8:93-95 '58 (MIRA 11:8)
(ACADEMY OF MEDICAL SCIENCES OF THE U.S.S.R.)

IVANOVA, M.A.

In the Presidium of the Academy of Medicine of the U.S.S.R.
Vest. AMN SSSR 13 no. 10:90-92 '58 (MIRA 11:10)
(MEDICINE)

IVANOVA, M.A.

In the Presidium of the Academy of Medical Sciences of the U.S.S.R.
Vest. AMN SSSR 14 no.1:91-95 '59. (MIRA 12:2)

(MAN--INFLUENCE OF CLIMATE)
(TEETH--DISEASES)
(POLIOMYELITIS)

IVANOVA, M.A.

In the Presidium of the Academy of Medical Sciences of the U.S.S.R.
Vest. AMN SSSR 14 no.3:84-86 '59. (MIRA 12:3)
(MEDICINE)

IVANOVA, M.A.

In the Presidium of the Soviet Academy of Medical Sciences.
Vest.AMN SSSR 14 no.5:91-92 '59. (MIRA 14:5)
(ACADEMY OF MEDICAL SCIENCES OF THE U.S.S.R.)

IVANOVA, M.A.

In the Presidium of the Soviet Academy of Medical Sciences. Vest.
AMN SSSR 15 no.4:91-93 '60. (MIRA 14:5)
(ACADEMY OF MEDICAL SCIENCES OF THE U.S.S.R.)

IVANOVA, M.A.

In the Presidium of the Soviet Academy of Medical Sciences.
Vest. AMN SSSR 15 no.8:91-94 '60. (MIRA 13:11)
(MEDICINE)

IVANOVA, M.A.

In the Presidium of the Academy of Medical Sciences of the
U.S.S.R. Vest.AMN SSSR 16 no.1:90-91 '61. (MIRA 14:3)
(ACADEMY OF MEDICAL SCIENCES OF THE U.S.S.R.)

IVANOVA, M.A.

In the Presidium of the Academy of Medical Sciences of the U.S.S.R.
Vest. AMN SSSR 16 no. 5:94-96 '61. (MIRA 14:12)
(MEDICINE)

SAVINYKH, A.G.; IVANOVA, M.A.

Improvement in the removal of neutralized fraction from slime.
Gidroliz. i lesokhim. prom. 14 no.8:17-18 '61. (MIRA 16:11)

1. Khakasskiy gidroliznyy zavod.

L 31191-66 EWT(1)/T JK

SOURCE CODE: UR/0016/66/000/003/0053/0055

ACC NR: AP6022594

AUTHOR: Meshcheryakova, I. S.; Ivanova, M. A.

ORG: Institute of Epidemiology and Microbiology im. Gamaleya, AMN SSSR (Institut epidemiologii i mikrobiologii AMN SSSR); Moscow Meat Packing Plant (Moskovskiy myasokombinat)

TITLE: Serological methods of examining domestic animals for tularemia

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 3, 1966, 53-55

TOPIC TAGS: tularemia, commercial animal, animal disease, diagnostic medicine, antigen, serum

ABSTRACT: An investigation of the sera of 395 cows using the agglutination and passive hemagglutination reactions revealed 40.5% negative, 54% doubtful, and only 5.5% positive. The figures for 288 swine were 25%, 66%, and 9%, respectively. It is noteworthy that positive reactions to the tularemia antigen were recorded only in adult animals, none in calves or piglets. This implies that positive reactions can be considered specific (diagnostic), the result of the animals' coming into contact with the tularemia pathogen present in wild animals. As such, they warrant efforts to locate the latent foci of tularemia in the given region. Orig. art. has: 1 table. [JPRS]

SUB CODE: 06, 02 / SUBM DATE: 03Dec64 / ORIG REF: 005

Card 1/1 UC

UDC: 616.981.455-084.449:619:616.981.455-078.7
0915 06/5

SHCHUKAREV, S.A.; LOBANEVA, O.A.; IVANOVA, M.A.; KONONOVA, M.A.

Formation constants of complex divalent palladium bromides. Zhur.
neorg. khim. 9 no.12:2791-2792 D '64.

(MIRA 18:2)

1. Leningradskiy gosudarstvennyy universitet, kafedra neorganiche-
skoy khimii.

YEGOROV, V.P.; IVANOVA, M.A.; SABININ, Yu.A.

Systems for automatic derivation of positional angle with
coordinate converter based on rotating transformers. Sbor.
rab.po vop. elektromekh. no.7:171-180 '62. (MIRA 16:1)
(Automatic control) (Astronomical instruments)

MOROZOV, Ye.F.; IVANOVA, M.A.

Furfural-containing semiproducts of hydrolysis. Gidroliz. 1 leşokhim.
prom. 16 no.1:29 '63. (MIRA 16:2)

1. Khakasskiy gidroliznyy zavod.
(Hydrolysis) (Furaldehyde)

ACCESSION NR: AT4001798

S/2518/63/028/000/0023/0031

AUTHOR: Ivanova, M. A.

TITLE: Distribution of sound velocities in the North Atlantic during autumn and spring

SOURCE: AN SSSR. Morskoy gidrofizicheskiy institut. Trudy*, v. 28, 1963, Fizika morya, 23-31

TOPIC TAGS: oceanography, sea water temperature, sea water salinity, oceanological acoustics, Mikhail Lomonosov research vessel

ABSTRACT: A study was made of sound distribution and the sound channel in the North Atlantic based on data collected during the spring (second) and autumn (fourth) voyages of the research vessel Mikhail Lomonosov. A general chart of the sound velocities in the water was compiled, and the depth and location of the sound channel was determined. In the North Atlantic there are pronounced velocity gradients to a depth of 1000—1500 m in the south and 400—600 m in the north which wedge-out at the surface near the polar front. The sound channel (and its axis) is clearly distinguishable in the spring and in the

Card 1/2

ACCESSION NR: AT4001798

autumn, when it rises from a depth of 1500—1800 m in the southeast to 300—500 m in the northwest. The depth of the axis of the sound channel is determined by the low temperature and low salinity of the subarctic waters and subsurface layers. Sound velocity changes in the same direction from 1495 m/sec to 1475 m/sec. The thickness of the channel tapers from 1500 m in the southeast to 400—500 m in the northwest. Seasonal variations (spring and autumn) have no effect on the position of the channel. Orig. art. has: 8 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 17Oct63

ENCL: 00

SUB CODE: AS

NO REF SOV: 001

OTHER: 004

Card 2/2

ACCESSION NR: AR4015486

S/0169/63/000/012/V019/V019

SOURCE: RZh. Geofizika, Abs. 12V114

AUTHOR: Ivanova, M. A.

TITLE: Distribution of speeds of sound in the Northern Atlantic Ocean during the fall and spring seasons

CITED SOURCE: Tr. Morsk. gidrofiz. in-ta. AN USSR, v. 28, 1963, 23-31

TOPIC TAGS: speed of sound, sofar channel, temperature and salinity of water, sound in ocean, axis of sound channel, North Atlantic current, water masses

TRANSLATION: The general picture of the distribution of the speed of sound, the character of the disposition of the boundaries of the sound channel and the depth of its axis in the great expanse of the Northern Atlantic is given. Using Kuvakhar's temperature and salinity tables for standard horizons the velocities of sound at the corresponding horizons are calculated. Vertical profiles were plotted according to these values and on them isolines of the velocity were superimposed, and the sound channel, its axis and boundaries determined. An analysis of five profiles, three of which ran from southeast to northwest, and two intersecting them running

Card 1/3

ACCESSION NR: AR4015486

from southwest to northeast, leads to the following conclusions. In the region being studied, the distribution of velocities along the vertical is characterized in the upper layer (to depths of 1000-1500 m in the southern part and 400-600 m in the northern part) by a large velocity gradient and a tapering-out at the surface, especially near the polar front. The isolines are wave-like in form, a fact determined by the irregular distribution of temperature and salinity along the entire stretch of the North Atlantic. In the deepwater layer the velocity isolines lie horizontally. In the surface layer (50-100 m), in autumn the velocities increase by 5-8 m/sec. in comparison with those in the spring. The sound channel's axis is wave-like and lies deep, having a general tendency to rise from a depth of 1500-1800 m in the southeast up to 300-500 m in the northwest. Such a picture is determined by the hydrological regime of the water masses of this region: subarctic waters with enhanced temperature and salinity are responsible for the comparatively shallow depth of the axis in the northwest (300-500 m) with a sharp dip in the polar front region. The waters of the North Atlantic current cause the axis to lie at a great depth in the southeastern part of the North Atlantic. The velocity along the axis of the sound channel (from 1495-1475 m/sec.) and the thickness of the sound channel (from 1500 to 400-500 m) change in this same direction. The axis of the channel lies near the boundaries of two principal water masses: the surface mass with a thickness up to 1200-m in the southeastern part and 600-800-m in the

Card 2/3

ACCESSION NR: AR4015486

northwestern part, and also the deep mass stretching along the bottom. Seasonal changes have no effect on the location of the sound channel, the axis retaining its location and form. Seasonal fluctuations of temperature and salinity in the near-surface layers cause the upper boundaries of the sound channel to draw near to the surface or move away from it. B. Zalogin.

DATE ACQ: 09Jan64

SUB CODE: AS, PH

ENCL: 00

Card 3/3

IVANOVA, M.A.

Distribution of sound velocity in the northern part of the Atlantic
Ocean in the autumn and spring. Trudy Mor.gidrofiz.inst. AN URSR
28:23-31 '63. (MIRA 17:3)

KOVALEVA, Ye.S.; RYBALTOVSKIY, G.V.; IVANOVA, M.A.; BELNOVA, M.I.

Results of examining animals for toxoplasmosis using the
complement fixation reaction. Veterinaria 42 no. 5:70-71
My '65. (MIRA 18:6)