

UNESCO

Organisation des Nations Unies
pour l'Education, la Science et la Culture
nous aide financièrement pour la publication de
ce Bulletin



This Bulletin
is published with the financial help of the
United Nations Educational, Scientific
and Cultural Organisation

UNESCO

Union Radio - Scientifique Internationale

INTERNATIONAL SCIENTIFIC RADIO UNION
U. R. S. I.

BULLETIN MENSUEL

Octobre 1948

● MONTHLY BULLETIN

October 1948

INFORMATIONS

Liste des Membres des Comités Nationaux de :

| | |
|--|----|
| Afrique du Sud | 1 |
| Etats - Unis d'Amérique | 2 |
| Grande Bretagne | 4 |
| Nouvelle Zélande | 6 |
| Suède | 7 |
| Suisse | 8 |
| Conseil International des Unions Scientifiques | 10 |
| Union Internationale de Cristallographie | 13 |
| <u>COMMISSION III</u> | 14 |

DOCUMENTS — TRAVAUX :

| | |
|-----------------------|----|
| Afrique du Sud | 15 |
| Belgique | 15 |
| Etats-Unis d'Amérique | 16 |
| France | 16 |
| Grande-Bretagne | 16 |
| Italie | 17 |

INFORMATIONS

LISTE DES MEMBRES DES COMITES NATIONAUX LIST OF MEMBERS OF NATIONAL COMMITTEES

AFRIQUE DU SUD — SOUTH AFRICA

- | | |
|--|--|
| The Postmaster-General, General Post Office, Church Square, Pretoria. | 2 Representatives (no nominees). |
| The Director-General, S. A. Broadcasting Corpor., P. O. Box 4559, Johannesburg. | Mr. W. Hilarius (Alternate : Mr. H. O. Collett). |
| The S. A. Institute of Electrical Engineers, Engineers, P. O. Box 5907, Johannesburg. | Mr. G. R. Bozzoli, c/o Department of Electrical Engineers, University of the Witwatersrand, Milner Park, Johannesburg. |
| The Secretary, S. A. Radio League, P. O. Box 7026, Johannesburg. | 1 Representative (no nominee). |
| The Secretary, Royal Society of South Africa, University of Cape Town, Rondebosch. | 1 Representative (no nominee). |
| Fakulteit vir Natuurwetenskap en Tegniek, Die S. A. Akademie vir Wetenskap en Kuns, Engelenberghuis, Ziervogelstraat, Pretoria | Dr. J. C. R. Heydenrych, P. O. Box 395, Pretoria. |

The Officer-in-Charge,
Telecommunications Research
Laboratory,
University of the Witwaters-
rand,
Milner Park,
Johannesburg.

Mr. F. J. Hewitt,
Telecommunications Research
Laboratory,
University of the Witwatersrand,
Milner Park,
Johannesburg.

The President,
S. A. Council for Scientific and
Industrial Research,
P. O. Box 395,
Pretoria.

Dr. B. F. J. Schonland,
P. O. Box 395,
Pretoria.
(No nominee for second repre-
sentative.)

ETATS-UNIS D'AMERIQUE — UNITED STATES OF AMERICA

Chairman : Dr. J. H. Dellinger,
618, Pickwick Lane,
Chevy-Chase, Md.

Vice-Chairman : H. H. Beverage,
Director of Radio Systems
Research Laboratory,
RCA Laboratories Division,
66, Broad Street,
New York.

Secretary-Treasurer : Dr. Newbern Smith,
Central Radio Propagation Labo-
ratory,
National Bureau of Standards,
Washington 25, D.C.

Members :

Dr. R. C. Gibbs,
Division of Physical Science,
National Research Council,
2101, Constitution Ave, N. W.,
Washington, D.C.

Representing :

(Division of Physical Sciences,
National Research Council —
ex officio.)

Dr. Newbern Smith,
National Bureau of Standards.

(U. S. Department of Com-
merce.)

E. W. Allen, (Federal Communications Com-
Federal Communications Com- mission.)
mission,
New Post Office Building,
Washington 25, D.C.

C. M. Jansky, Jr., (The Institute of Radio Engi-
National Press Building, neers.)
Washington, D.C.

Major General F. L. Anken- (Air Force — ex officio.)
brandt,
Director of Communications,
Department of the Air Force,
Room 4D104 Pentagon Bldg.,
Washington 25, D.C.

Major General S. B. Akin, (Army — ex officio.)
Chief Signal Officer,
Department of the Army,
Room 3E258 Pentagon Bldg.,
Washington 25, D.C.

A. R. Beach, (Army.)
Office of Chief Signal Officer,
Department of the Army,
Room 4B262 Pentagon Bldg.,
Washington 25, D.C.

Rear Admiral E. E. Stone, (Navy — ex officio.)
Director of Naval Communica-
tions,
Department of the Navy,
Washington 25, D.C.

Dr. A. H. Taylor, (Navy.)
Naval Research Laboratory,
Anacostia, D.C.

Members at large :

L. V. Berkner, Dept. of Terrestrial Magnetism, 5241, Broad Branch
Road, Washington, D.C.

H. H. Beverage, RCA Communications, Inc. (1111 17th St., N.W., Wash., D.C.)

Dr. C. R. Burrows, Director, School of Electrical Engineering, Cornell University, Ithaca, N.Y.

M. Eastham, General Radio Co, Cambridge, Mass.

Dr. D. H. Menzel, Harvard College Observatory, Cambridge, Mass.

Dr. J. A. Pierce, Craft Laboratory, Harvard University, Cambridge, Mass.

Haraden Pratt, Mackay Radio & Tel. Co, 67, Broad Street, New York, N.Y.

J. C. Schelleng, Bell Telephone Laboratories Deal, N.J.

Dr. J. A. Stratton, Massachusetts, Institute of Technology, Cambridge, Mass.

Dr. C. G. Suits, Research Laboratory, General Electric Co, Schenectady, N.Y.

Dr. F. E. Terman, Dean, School of Engineering, Stanford University, Calif.

GRANDE-BRETAGNE — GREAT BRITAIN

Sir Robert Robinson, P. R. S., 117, Banbury Road, Oxford.

Sir Thomas Merton, Treas. R. S., Stubbings House, Maidenhead Thicket, Berks.

Professor E. D. Adrian, O. M., For. Sec. R. S., St. Chad's, Grange Road, Cambridge.

Sir Edward Salisbury, C. B. E., Sec. R. S., 49, Kew Green, Kew Gardens, Surrey.

Sir Alfred Egerton, Sec. R. S., Department of Chemical Engineering, Imperial College, London, S.W.7.

Sir Robert A. Watson Watt, G. B., F. R. S. (**Chairman**), 7, Gayfere Street, London, S.W.1.

Professor P. M. S. Blackett, F. R. S., The Physical Laboratories, The University, Manchester.

Sir Edward V. Appleton, K. C. B., G. B. E., F. R. S., D. S. I. R., Park House, 24, Rutland Gate, S.W.7.

Professor Willis Jackson, Imperial College, London, S.W.7.

Professor J. Sayers, Electron Physics Department, The University,
Edgbaston, Birmingham, 15.

Group-Captain H. G. Leonard-Williams (Wireless Telegraphy
Boards), 143, Piccadilly, London, W.1.

Dr. E. H. Rayner, 40, Gloucester Road, Teddington, Middx.

J. A. Ratcliffe, Esq., Cavendish Laboratory, Cambridge.

Group-Captain W. Proctor Wilson, C. B. E., The B. B. C. Engi-
neering Research Department, 42-44, Nightingale Square,
Balham, London, S.W.12.

Dr. H. G. Booker, Christ's College, Cambridge.

Professor S. Chapman, F. R. S., 43, High Street, Oxford.

Dr. R. L. Smith-Rose, National Physical Laboratory, Teddington,
Middx.

Dr. D. Jack, Department of Natural Philosophy, United College,
The University, St. Andrews, Fife.

Sir Charles Darwin, K. B. E., M. C., F. R. S., Bushy House, Ted-
dington, Middx.

A. H. Mumford, Esq., M. I. E. E., Engineers-in-Chief's Office,
G. P. O., Alder House, London, E.C.1.

C. W. Oatley, Esq., 89, Gilbert Road, Cambridge.

R. Naismith, Esq., Radio Research Station, Slough, Bucks.

Professor J. T. Randall, F. R. S., King's College, Strand, Lon-
don, W.C.2.

Professor J. J. Dowling, 2, Garville Avenue, Rathgar, Dublin,
Eire.

E. T. S. Walson, Esq., Ph. D., 26, St. Kevin's Park, Dartry,
Dublin, Eire.

Colonel Sir A. Stanley Angwin, K. B. E., D. S. O., M. C., T. D.,
M. I. E. E., Engineer-in-Chief, G. P. O., Alder House,
London, E.C.1.

A. J. Gill, Esq., 121, Strawberry Vale, Twickenham, Middx.

NOUVELLE-ZELANDE — NEW ZEALAND

- Dr. M. A. F. Barnett (**Chairman**), Director, Meteorological Services, Air Department, Wellington.
- Mr. W. S. Joyner, Principal Radio Engineer, Civil Aviation Branch, Air Department, Wellington.
- Wing Commander C. C. Hunter, Director of Signals, Air Department, Wellington.
- Major R. Foubister, Chief Signals Officer, Army Department, Wellington.
- Lieut. Commander P. T. Williams, Staff Communications Officer, Navy Office, Wellington.
- Mr. E. H. R. Green, Chief Engineer, Post and Telegraph Department, Wellington.
- Mr. W. L. Harrison, Chief Engineer, National Broadcasting Service, Wellington.
- Professor P. W. Burbidge, Professor of Physics, Auckland University College, Auckland.
- Professor R. R. Nimmo, Professor of Physics, University of Otago, Dunedin.
- Mr. T. R. Pollard, Electronics Department, Canterbury University College, Christchurch.
- Mr. G. Searle, Radio Section, Post & Telegraph Department, Wellington.
- Mr. C. Ellyett, Manchester University, Manchester, England.
- Mr. C. N. Watson-Munro, Assistant Secretary, Physics and Engineering, Department of Scientific and Industrial Research, Wellington.
- Dr. A. G. Bogle, Chief Electrical Engineer, Dominion Physical Laboratory, Lower Hutt.
- Mr. G. W. Markham (**Secretary**), Department of Scientific and Industrial Research, Wellington.
-

SUEDE — SWEDEN

Président :

Dr. H. Sterky, Directeur Général des Télégraphes, Kungl. Telegrafstyrelsen, Stockholm.

Vice-Président :

S. Lemoine, Directeur de Bureau à la Direction Générale des Télégraphes, Kungl. Telegrafstyrelsen, Stockholm.

Secrétaire :

S. Gejer, Ingénieur à la Direction Générale des Télégraphes, Kungl. Telegrafstyrelsen, Stockholm.

Membres :

O. Bergendahl, Ingénieur en Chef de 2^e Cl. du Génie Maritime, Marinförvaltningen, Marinledningen, Stockholm.

Dr. E. Hallén, Professeur à l'Ecole Polytechnique Royale, Tekniska Högskolan, Stockholm.

A. Holmgren, Chef de Division à la Direction Générale des Télégraphes, Kungl. Telegrafstyrelsen, Stockholm.

Dr. F. Lindholm, Institut Météorologique et Hydrologique de Suède, Sveriges Meteorologiska och Hydrologiska Institut, Stockholm, 12.

E. Löfgren, Professeur à l'Ecole Polytechnique Royale, Tekniska Högskolan, Stockholm.

Colonel G. Norén, Flygvapnet, Stockholm, 80.

Professeur Dr. H. Norinder, Directeur de l'Institut de Recherches de Haute Tension de l'Université d'Upsal, Institutet för Högspänningsforskning, Uppsala.

Professeur Dr. O. Rydbeck, Ecole Polytechnique de Chalmers, Chalmers Tekniska Högskola, Göteborg.

Dr. M. Vos, Ingénieur en Chef à la S. A. L. M. Ericsson, Telefon AB. L. M. Ericsson, Stockholm, 32.

A. Oman, Ingénieur, Chef de Section, Kungl. Arméförvaltningens Tygavdelning, Signalmaterielbyran, Stockholm, 7.

Membres adjoints :

Professeur Rr. H. Alfvén, Ecole Polytechnique Royale, Tekniska Högskolan, Stockholm.

Dr. N. Ambolt, Chef de la Section du Magnétisme Terrestre, Service Hydrographique, Kungl. Sjökarteverket, Stockholm, 100.

Dr. C. G. Aurell, Telefon AB L. M. Ericsson, Stockholm, 32.

Dr. S. Ekelöf, Professeur à l'Ecole Polytechnique de Chalmers, Chalmers Tekniska Högskola, Göteborg.

M. Fehrm, Chef de Section, Centre de Recherches pour la Défense, Försvarets Forskningsanstalt, Stockholm, 16.

A. Schleiman-Jensen, Directeur de la S. A. Svenska Elektronrör, Lumavägen 6, Stockholm, 20.

C. H. de Sivers, Ingénieur, Telefon AB. L. M. Ericsson, Stockholm, 32.

Dr. Y. Ohman, Observatoire de Stockholm, Stockholms Observatorium, Saltsjöbaden.

SUISSE — SWITZERLAND

Président :

Professeur Dr. Ing. Jean Lugeon, Directeur de la Station Centrale Suisse de Météorologie, Gloriosastrasse, 35, Zurich.

Membres :

Dr. Ing. Otto Gerber, Chef de Section à la Direction Générale des P. T. T., Speichergasse, 6, Berne.

Dr. Raymond Saenger, Professeur à l'Ecole Polytechnique Fédérale, Riedenestrasse, 18, Wallisellen/Zurich.

Dr. Ing. Paul Louis Mercanton, Professeur Honoraire à l'Université de Lausanne, avenue de l'Eglise Anglaise, 20, Lausanne.

Prof. Dr. Max Waldmeier, Directeur de l'Observatoire Astronomique Fédéral, Sternwartestrasse, Zurich.

Dr. Ing. Guido Nobile, Ingénieur Conseil, Rotstrasse, 58, Zurich.

Prof. Dr. Franz Tank, Directeur de l'Institut de Haute Fréquence de l'Ecole Polytechnique Fédérale, Frohburgstrasse, 174, Zurich.

Prof. Dr. Hans König, Vice-Directeur du Bureau Fédéral des Poids et Mesures, Professeur à l'Université de et à Berne.

Dr. Ernest Baldinger, P. D. à l'Institut de Physique de l'Université de Bâle, Weidengasse, 35, Bâle.

Dr. Ing. Fritz Lüdi, Susenbergstrasse, 92, Zurich.

Prof. Dr. Robert Mercier, Professeur à l'Ecole Polytechnique de l'Université de Lausanne, Chemin du Grey, 1, Lausanne.



CONSEIL INTERNATIONAL DES UNIONS SCIENTIFIQUES
INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

Bulletin Mensuel d'Information
Monthly Bulletin of Information

N° 11 - Juillet - July 1948

Extraits - Abstracts

I. International Union of History of Science :

Commission for the History of the Social Relations of Science.
Meeting of 17 and 18 June, 1948.

II. Union Internationale des Sciences Biologiques :

Premier Congrès international de Physio-Pathologie de la
Reproduction et de la Fécondation artificielle. 23-30 juin 1948.

III. International Union of Pure and Applied Physics :

Sixth General Assembly, Amsterdam 8-10 July, 1948.

A. — Appointment of Executive Committee.

President of the Union : M. H. A. Kramers.

Vice-Presidents : M. Amaldi (Rome),

G. Bialobrzeski (Warsaw),

K. K. Darrow (New York),

Sir Ch. Darwin (Teddington),

P. P. Ewald (Belfast),

C. J. Gorter (Leyden),

J. C. Jacobsen (Copenhagen),

P. Scherrer (Zurich),

J. C. Slater (Cambridge, Mass., U. S. A.),

Secretary-General : Professor P. Fleury (Paris, France).

B. — Recommendations regarding symbols, units and Nomenclatures.

1. (a) **The unit of heat** is the joule, equal to 107 ergs.

(b) The results of thermal measurements should be expressed in joules. If the results are calculated from a change in temperature of water, and if the term « calorie » cannot be avoided, the conversion factor and the limiting temperatures should be stated.

2. (a) The **definition of the absolute thermodynamic scale** of temperature should be based on a single fixed point. The numerical value of this point should be chosen,

once and for all, by the International Bureau of Weights and Measures so as to make new scale agree as closely as possible with the present Kelvin scale.

- (b) It is recommended that this fixed point should be the triple point of water.
- 3. (a) The International Union of Pure and Applied Physics decides to ask the International Bureau of Weights and Measures to accept, for international use, an « **International practical system of units** ».
It is not proposed that the C. G. S. system should be abandoned by physicists.
 - (b) The International Union of Pure and Applied Physics recommends, as an international practical system of units, the system **mètre, kilogram (mass), second**, and an electrical unit of the absolute practical system (to be chosen in the near future).
 - (c) The unit of force in this system (i. e. the force which, acting on a mass of one kg. produces an acceleration of $1\text{m}/\text{sec}^2$) should be called the « **newton** ».
- 4. The Report « General rules — Symbols for physical quantities — Symbols for units », as amended by the S. U. N. Commission in session in July 1948, is approved and is to be published.

C. — Commission on Cosmic Rays.

- 1. An index of Cosmicians will be prepared in the following way :
The Secretariat of the Commission will send a questionnaire to all persons indicated to it as « Cosmicians », enquiring after the purpose of their research work, their publications, laboratories, means of research, possibilities of receiving other scientists, etc.
With their agreement, the information gathered will be grouped in a publication regularly kept up-to-date.
- 2. Professor Clay and Professor Auger will study the question of establishing a permanent equipment for research on cosmic rays at the Jungfraujoeh according to an international plan, and will take the necessary steps.
- 3. The Secretary is instructed to support the request for a grant-in-aid from Unesco for the re-equipment of the war-devastated laboratories for work on cosmic rays at Budapest.
- 4. The next symposium on cosmic rays will take place between July and September 1949, at a place to be decided later on.

5. (a) The Union of Physics recommends the use of the terms **positon** and **negaton** as a means of distinguishing between the positive electron and the negative electron, the present sense of the term **electron** remaining unchanged.
- (b) The Union recommends the use of term **nucleon** to denote both neutrons and protons.
- (c) The Union notes that the terms **mesor**, **mesoton** and **mesotron** are used concurrently to denote charged particles of mass intermediate between the mass of an electron and the mass of a proton.
It is recommended that trial should be made (until the next General Assembly) of the use of the term **meson**.

D. — Membership of Commissions.

Commission on Cosmic Rays :

Messrs. J. Clay (Amsterdam), Chairman,
P. Auger (Paris), Secretary,
C. A. Anderson (Pasadena),
H. J. Bhabha (Bombay),
P. M. J. Blackett (Manchester),
G. Bernardini (Rome),
Sandoval Vallarta (Mexico).

Joint Commissions :

Ionosphere : Messrs. H. W. Massey (London),
L. Vegard (Oslo).

Radiometeorology : M. Bowen (Sydney).

UNION INTERNATIONALE DE CRISTALLOGRAPHIE
INTERNATIONAL UNION OF CRYSTALLOGRAPHY

Compte Rendu de la première Assemblée Générale tenue à l'Université d'Harvard, Cambridge, Mass., E. U. A., juillet-août 1948.

Minutes of Meetings of the first General Assembly held at Harvard University, Cambridge, Mass., U. S. A., July-August, 1948.

President : Sir Lawrence Bragg (U. K.).

Vice-Presidents : A. Westgren (Sweden),
R. W. G. Wyckoff (U. S. A.).

General Secretary : R. C. Evans, Crystallographic Laboratory,
Cavendish Laboratory, Cambridge,
England.

Editor : P. P. Ewald (U. K.).

Ordinary Members : M. J. Buerger (U. S. A.),
A. L. Patterson (U. S. A.),
J. Wyart (France).

COMMISSION III

IONOSPHERE ET PROPAGATION DES ONDES ON IONOSPHERE AND WAVE PROPAGATION

Une Sous-Commission a été créée à Stockholm lors de l'Assemblée Générale, en vue de préparer un Rapport Spécial sur « Les Phénomènes Périodiques de l'Ionosphère ».

Cette Sous-Commission est composée de :

A Committee was nominated in Stockholm at the General Assembly to prepare a Special Report on « Tidal Phenomena in the Ionosphere ».

The Members of that Committee are :

Doctor David F. Martyn (Australy), President.

Doctor W. J. G. Beynon (United Kiingdom),

Professor S. Chapman (United Kingdom),

J. Egedal (Danemark),

A. G. Mc. Nish (United States America),

K. Weekes (United Kingdom).

DOCUMENTS - TRAVAUX

PAPERS - WORKS

Les documents suivants ont été reçus au Secrétariat Général pendant le mois de septembre 1948.

Les Membres de l'Union, désireux d'obtenir l'un ou l'autre de ces documents, sont priés de s'adresser au Secrétariat Général.

The General Secretary's Office has received during September 1948 the following documents.

Members of the Union wishing to receive some of those documents are requested to apply to the General Secretary's Office.

AFRIQUE DU SUD — SOUTH AFRICA

N° B/220. — **South African Council for Scientific and Industrial Research. — Telecommunications Research Laboratory. — Series ETR2. — Pretoria, 1947.**

A Single Band Ionosphere Recorder covering the range 0.1 to 20 Megacycles/second, by T. L. Wadley.

Abstract :

This report describes an automatic ionosphere recorder which covers the range of 0.1 to 20 megacycles/second in a single band by a system of high frequency heterodyning and the use of wide band amplifiers. The system is arranged to be independent of the stability of high frequency oscillators by means of a double heterodyne in the transmitter as well as the receiver.

The equipment has a panoramic display with a sweep duration of 7 seconds, such that the height frequency curve may be viewed directly. The frequency calibration is crystal controlled and quite independent of the sweeping mechanism, which may be set to any desired limits of sweep.

The aerial systems consist of a pair of concentric vertical rhombics suitably coupled to the equipment by wide band transformers, which are arranged to transfer the power from one aerial to the other automatically as frequency proceeds up the band. Common aerial operation is employed on the transmitter and receiver.

BELGIQUE — BELGIUM

N° B/221. — **Centre de Contrôle des Radiocommunications des Services Mobiles (C. C. R. M.).**
Rapport mensuel M 8/48. — Août 1948.

N° B/222. — **Centre de Contrôle des Radiocommunications des Services Mobiles (C. C. R. M.).**
Rapport mensuel M 8/48. — Août 1948.

- N° B/223. — **Centre de Contrôle des Radiocommunications des Services Mobiles (C. C. R. M.).**
Rapport spécial sur l'exactitude de réglage des stations de navire sur 500 Kc/s.
- N° B/224. — **Institut Royal Météorologique de Belgique. Service du Rayonnement. Prévisions Ionosphériques.** — Décembre 1948.
- N° B/225. — **Ciel et Terre.** — Bulletin mensuel de la Société Belge d'Astronomie, de Météorologie et de Physique du Globe.
— LXIV^e année. — Nos 9-10. — Septembre-octobre 1948.
-

ETATS-UNIS D'AMERIQUE — UNITED STATES OF AMERICA

U. S. Department of Commerce — National Bureau of Standards — Basic Radio Propagation Predictions — Three Months in Advance.

- N° B/226. — For June 1948 issued March 1948.
- N° B/227. — For July 1948 issued April 1948.
- N° B/228. — For August 1948 issued May 1948.
- N° B/229. — For September 1948 issued June 1948.
- N° B/230. — For October 1948 issued July 1948.
- N° B/231. — **Central Radio Propagation Laboratory. — National Bureau of Standards, F. 43 — issued Aug. 1948. Ionospheric Data.**
- N° B/232. — **Ionospheric Virtual Height Measurements at 100 kilocycles,**
by R. A. Heliwell, Acting Assistant Professor, Electronics Research Laboratory, Department of Electrical Engineering, Stanford University, Stanford, California. August 1948.
-

FRANCE

- N° B/233. — **Centre National d'Etudes des Télécommunications.**
Bulletin d'Information du Laboratoire National de Radio-électricité. Bureau Ionosphérique Français (B. I. F.). — 2^e année : 1947. — N° 12.
-

GRANDE-BRETAGNE — GREAT BRITAIN

- N° B/234. — **Department of Scientific and Industrial Research. Radio Research Board. Issued by Radio Division, National Physical Laboratory. — Bulletin A, n° 22. — Predictions of Radio Wave Propagation Conditions for December 1948.**
- N° B/235. — **Department of Scientific and Industrial Research. Radio Research Board. Issued by Radio Division, National Physical Laboratory. — Bulletin B, n° 19. — August 1948. Monthly Bulletin of Ionospheric Characteristics. Falkland Islands and Port Lockroy for May 1948. Slough and Fraserburgh for June 1948.**
- N° B/236. — **Department of Scientific and Industrial Research. Radio Research Board. Issued by Radio Division, National Physical Laboratory. — Bulletin C, n° 16. — Monthly Bulletin of Radio Atmospheric Noise. Measurements for March 1948.**

N° B/237. — **The Marconi Review.** — Vol. XI. — N° 3. — July-September 1948.

Abstract of Contents :

Page 69 : The Influence of the Human Element in Direction Finding, by J. D. Peat.

ITALIE — ITALY

N° B/238. — **Geofisica Pura et Applicata.** — Vol. XII. — Fasc. 5-6. — 1948.

Extrait du sommaire :

Page 254 : Die Schichtung der Troposphäre über dem tropischen Ostafrika, Karl Schneider-Carius.
