GEOLOGICAL SURVEY CIRCULAR 716

Worldwide Directory of National Earth-Science Agencies

Worldwide Directory of National Earth-Science Agencies

**Compiled by Anne Lucas Falk and
Ralph L. Miller**

G E O L O G I C A L S U R V E Y C I R C U L A R 7 1 6

*A listing of governmental earth-science
organizations whose functions are similar
to those of the U.S. Geological Survey*

United States Department of the Interior

ROGERS C. B. MORTON, *Secretary*

Geological Survey

V. E. McKelvey, *Director*

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WORLDWIDE DIRECTORY OF NATIONAL EARTH-SCIENCE AGENCIES

Compiled by Anne Lucas Falk and Ralph L. Miller

INTRODUCTION

This directory was originally planned and prepared for internal use—to provide the Geological Survey (USGS) with a ready reference to earth-science bureaus around the world that have functions similar to those of one or more of the operating divisions of the USGS. Experience has indicated, however, that the directory fills a much broader need; hence, it has been updated and enlarged for publication. The compilers recognize that many more earth-science organizations than are listed here are doing work similar to that of the USGS. To keep the directory to a convenient size, however, only governmental institutions have been listed for each country; of these, we include only one, or at most a very few, of those whose functions match or overlap those of one or more divisions of the USGS.

Wherever feasible, names of agencies in countries whose languages are based primarily on the Latin alphabet are given in the language of the country. English translations have been added in brackets where they seem necessary for easy understanding. Names of agencies in countries whose languages utilize an alphabet other than the Latin are given in English.

The principal functions of the USGS and of the agencies in the directory are indicated by the following code:

G = Geology

C = Cartography

H = Hydrology

R = Minerals and petroleum regulation

This directory is based on information available to the compilers in the summer of 1974. It undoubtedly has some errors and some serious omissions. In addition, some changes will have taken place since it was compiled. The compilers will appreciate having such changes or errors called to their attention by users.

DIRECTORY

NORTH AMERICA

Canada

- G Geological Survey of Canada
Department of Energy, Mines, and
Resources
601 Booth Street
Ottawa, Ontario, K1A 0E8
Director: D. J. McLaren
- G Canada Centre for Mineral and
Energy Technology
Department of Energy, Mines, and
Resources
588 Booth Street
Ottawa, Ontario, K1A 0E4
Director: D. F. Coates
- C Surveying and Mapping Branch
Department of Energy, Mines, and
Resources
601 Booth Street
Ottawa, Ontario, K1A 0E9
Director: George Zarzycki
- H Inland Waters Directorate
Department of Energy, Mines, and
Resources
601 Booth Street
Ottawa, Ontario, K1A 0E9
Director: A. T. Price
- R National Energy Board
Place de Ville
112 Kent Street
Ottawa, Ontario, K1A 0E5
Chairman: M. A. Crowe
- R Mineral Resources Branch
Department of Energy, Mines, and
Resources
601 Booth Street
Ottawa, Ontario, K1A 0E4
Director: W. K. Buck

Greenland

- G Grønlands Geologiske Undersøgelse
Østervoldgade 5-7, Tr. KL
DK-1350 København, Denmark
Director: K. Ellitsgaard-Rasmussen

NORTH AMERICA—Continued

Mexico

- G Instituto de Geología
Universidad Nacional Autónoma
de México
Ciudad Universitaria
México 20, D. F.
Director: Diego Córdoba
- G Instituto de Geofísica
Universidad Nacional Autónoma
de México
Ciudad Universitaria
México 20, D. F.
Director: Julian Adem
- G Consejo de Recursos Naturales
no Renovables
Niños Heroes 130
México 7, D.F.
Director General: Guillermo P. Salas
- G Instituto de Biología
(Includes Oceanography)
Universidad Nacional Autónoma
de México
Ciudad Universitaria
México 20, D.F.
Director: Agustín Ayala Castañares
- C, G Comisión de Estudios del Territorio
Nacional (CETENAL)
San Antonio Abad 124, 5° Piso
México 8, D.F.
Director: Juan B. Puig de la Parra
- C Departamento Geográfico Militar
Secretaría de la Defensa Nacional
Lomas de Sotelo
Mexico 10, D.F.
Director: Joachim Orozco Camacho
- H Secretaría de Recursos Hidráulicos
No. 69 Paseo de la Reforma
México 1, D.F.
Ministro: Leandro Rovirosa Wade

NORTH AMERICA—Continued

United States

- G, C, U. S. Geological Survey
H, R National Center
12201 Sunrise Valley Drive
Reston, Virginia 22092
Director: V. E. McKelvey
- G U.S. Bureau of Mines
Washington, D.C. 20240
Director: Thomas V. Falkie

CARIBBEAN ISLANDS

Barbados

- G Bellairs Research Institute
St. James
President: Douglas R. Carter
- C Ministry of Home Affairs
Government Headquarters
Bay Street
Bridgetown

Cuba

- G Instituto de Geología
Academia de Ciencias de Cuba
Ave. Van-Troi no. 17203
Rancho Boyeros—Apartado Postal 10
La Habana
Director: Jesus F. de Albear
Franquiz
- G Instituto Nacional de Recursos
Minerales (IRCM)
O'Reilly y Aguacate
La Habana
Director: Salvador Salas
- C Instituto Cubano de Cartografía
y Catastro
Apartado Postal 2411
La Habana
- H Instituto Nacional de Recursos
Hidráulicos (INRH)
Humboldt 106 esp. P.
Vedado, La Habana
Director: Faustino Pérez
Hernández

CARIBBEAN ISLANDS—Continued

Dominican Republic

- G Dirección de Minería
Secretaría de Estado de Fomento
Santo Domingo
- G Instituto de Investigaciones
Geográficas y Geológicas
Universidad de Santo Domingo
Santo Domingo
- C Instituto Geográfico Universitario
Calle El Conde No. 2
Santo Domingo
Director: José J. Hungría M.
- C Instituto Cartográfico Militar
de las Fuerzas Armadas
Santo Domingo
Director: José J. Hungría M.

Guadeloupe and Dependencies

- G Arrondissement Mineralogique de
la Guyane
B.P. 448
Pointe-a-Pitre
Guadeloupe

Haiti

- G Service Géologique
Department of Agriculture, Natural
Resources, and Rural Development
Damiens près Port-au-Prince
- C Service de Géodesie et de
Cartographie
Boulevard Harry Truman
Port-au-Prince
Director: Raymond B. Oriol

Jamaica

- G Geological Survey Department
Hope Gardens
Kingston 6
- C Survey Department
P.O. Box 493
Kingston
- H National Water Authority
Kingston
Secretary-Manager: Clinton Davis

CARIBBEAN ISLANDS—Continued

Martinique

G Arrondissement Mineralogique
de la Guyane
B.P. 458
Fort-de-France

Puerto Rico

G Mineralogy and Geology Section
Industrial Laboratory
Economic Development Administration
Box 38, Roosevelt Station
Hato Rey 00929
Head: Carlos Vincente

G Department of Natural Resources
Area of Science and Technology
Box 5887 Puerta de Tierra Sta.
San Juan 00906

C Division of Maps and Topography
Department of Public Works
Stop 22
Santurce 00910

H Aqueduct and Sewer Authority
P.O. Box 7066
Barrio Obrero Station
San Juan 00916

H Water Resources Authority
G.P.O. Box 4267
San Juan 00936

Trinidad and Tobago

G, R Ministry of Petroleum and Mines
P.O. Box 96
Port-of-Spain, Trinidad

C Lands and Surveys Department
Mapping and Control Section
2b, Richmond Street
Port-of-Spain, Trinidad

CENTRAL AMERICA

Costa Rica

G Dirección de Geología, Minas
y Petróleo
Ministerio de Economía, Industria,
y Comercio
Aptdo. 10216
San José
Director: Rolando Castillo M.

CENTRAL AMERICA—Continued

Costa Rica—Continued

C, G Instituto Geográfico Nacional
Aptdo. 2272
San José
Director: Mario Barrantes Ferrero

H National Water Supply and
Sewerage Service (SNAA)
San José

El Salvador

G Centro de Estudios y Investiga-
ciones Geotécnicas
Ministerio de Obras Públicas
1-A Calle Poniente 925
San Salvador
Director: Mauricio Aquino Herrera

C Instituto Geográfico Nacional
Calle Juan Bertis No. 59
San Salvador
Director: José Alberto Gonzalez
Garcia

H Ministry of Agriculture
Irrigation Department
San Salvador

Guatemala

G División de Geología
Instituto Geográfico Nacional
Avenida las Américas 5-76, Zona 13
Guatemala City
Director: Oscar Daniel Salazar

G, R Dirección General de Minería e
Hidrocarburos
10a Calle 11-46, Zona 1
Guatemala City
Director General: Jorge Godoy Orantes

C Instituto Geográfico Nacional
Avenida las Américas 5-76, Zona 13
Guatemala City
Director: Federico Hernandez Cruz

H División de Recursos de Agua
Instituto Geográfico Nacional
Avenida las Américas 5-76, Zona 13
Guatemala City

CENTRAL AMERICA—Continued

Honduras

- G Dirección General de Minas e
Hidrocarburos
Secretaria de Recursos Naturales
Tegucigalpa
- C Instituto Geográfico Nacional
Barrio La Bolsa, (Comayaguela)
Tegucigalpa
Director General: Fernando Lanza
Sandoval

Nicaragua

- G Servicio Geológico Nacional
Ministerio de Economía,
Industria, y Comercio
Aptdo. Postal 1347
Managua, D.N.
Director: Orlando Rodriguez Marengo
- C Instituto Geográfico Nacional
Ministerio de Fomento y Obras Públicas
Aptdo. 2110
Managua, D.N.
Director: Humberto Porta Caldera
- C Dirección General de Cartografía
Ministerio de Fomento y Obras Públicas
Edificio Cerna, Calle Central
Managua, D.N.

Panama

- G Administración de Recursos
Minerales
Aptdo. Postal 9658, Zona 4
Panama City
Director: Jorge Quiros
- C Instituto Geográfico Nacional
"Tommy Guardia"
Aptdo. Postal 5267, Zona 5
Panama City
Director: Julio Mock C.
- H Instituto de Acueductos y
Alcantarillados Nacionales
Panama City
Director: Federico G. Guardia

SOUTH AMERICA

Argentina

- G Dirección Nacional de Geología y
Minería
Avenida Julio A. Roca 651
Buenos Aires
Director: Edgardo Menoyo
- G Servicio Nacional Minero Geológico
Ministerio de Industria y Minería
Buenos Aires
Director: Vincente Hector Padula
- G Gerencia de Exploración
Yacimientos Petrolíferos Fiscales
Avenida Rogue Saenz Pena 777
Buenos Aires
- C Instituto Geográfico Militar
Av. Cabildo 381
Buenos Aires
Director: Luis María Miró
- R Secretaria de Estado de Minería
Avenida Julio A. Roca 651, 10 piso
Buenos Aires
Secretary: Luis María Gitelli

Bolivia

- G Servicio Geológico de Bolivia
Ministerio de Minas y Petróleo
Avenida 16 de Julio No. 1769
Casilla de Correo 2729
La Páz
Director: José Guillermo Torrez
- G Instituto Boliviano del Petróleo
Casilla 4722
La Páz
President: José Patiño
- C Instituto Geográfico Militar y
Catastro Nacional
Ave. Saavedra, Miraflores
Commandant: Oscar Wilde Fernandez
- H Oficina de Aguas Potables por
Comunidades
La Páz
Chief: P. A. Parada P.
- R Ministerio de Minas y Petróleo
Avenida 16 de Julio No. 1769
La Páz
Minister: Ernesto David Pereira

SOUTH AMERICA—Continued

Brazil

- G Companhia de Pesquisa de Recursos
Minerais
Avenida Pasteur 404
Praia Vermelha
Rio de Janeiro, GB
President: Yvan Barretto de Carvalho
- G Divisão de Geología e Mineralogia
Departamento Nacional de Produção
Mineral
Setor de Autarquia Norte
Anexo ao Edifício Petrobras
Brasília, D.F.
Director General: Acyr Avila da Luz
- G Instituto de Pesquisas Especiais (INPE)
Caixa Postal 515
São José dos Campos
São Paulo
Director General: Fernando de
Mendonça
- C Instituto Brasileiro de Geografia e
Estatística
Avenida Franklin Roosevelt, 146
Guanabara, Rio de Janeiro
Director: Miguel Alves de Lima
- C Directoria do Serviço Geográfico do
Exército
Ministerio de Exército
Rio de Janeiro
- H Departamento Nacional de Aguas e
Energia Elétrica (DNAEE)
Ministério das Minas e Energia
Esplanada dos Ministérios
Bloco J, 3° andar
Brasília, D.F.
Director General: José Duarte de
Magalhães

Chile

- G Instituto de Investigaciones Geológicas
Agustinas 785, Casilla 10465
Santiago
President of the Council: Jorge Leon
Villarreal

SOUTH AMERICA—Continued

Chile—Continued

- G Empresa Nacional del Petróleo
Ahumada 341-8° Piso
Casilla 3556
Santiago
Director: Eduardo Simian G.
- G Instituto de Geología
Facultad de Ciencias Físicas y
Matemáticas
Plaza Ercilla 803
Casilla 13518
Santiago
Director: Cedomir Marangunic D.
- G Departamento de Minería
Corporación de Fomento de la
Producción
Bandera 341-7° Piso
Jefe: Rene Dintrans A.
- C Servicio Aéreo Fotogramétrico
Casilla 67
Correos Cerrillos
Santiago
Comandante: Sergio Piñeiro C.
- C Instituto Geográfico Militar
Castro 354
Santiago
Director: José Mutis Puccio
- H Instituto Hidrográfico de la Armada
Errazuriz 232
Casilla 324
Valparaíso
Captain: Raul Herrera A.

Colombia

- G Instituto Nacional de Investigaciones
Geológico-Mineras
Carrera 30, No. 48-51
Apto. Nacional 2504
Bogotá, D. E.
Director: Alberto Alvarez O.
- C Instituto Geográfico "Agustín Codazzi"
Avenida Ciudad de Quito 48-51
Bogotá, D. E.
Director: Alvaro Gonzalez Fletcher

SOUTH AMERICA—Continued

Ecuador

- G Servicio Nacional de Geología y Minería
Ministerio de Industrias y Comercio
Casilla 23-A, Avenida 10 de Agosto 666
Quito
Director: Edmundo Lanas C.
- C Instituto Geográfico Militar
El Dorado
Quito
Director: Leonardo Endara Romero
- H Dirección Nacional de Meteorología y
Hidrología
Avenida 10 de Agosto 2627
Quito
Director: Eduardo Mancheno García
- R Dirección General de Minas e
Hidrocarburos
Avenida 10 de Agosto 666
Quito
Director General: Gonzalo Sánchez L.

French Guiana

- G Bureau des Recherches Géologiques et
Minières
B.P. 42
Cayenne

Guyana

- G Geological Surveys and Mines
Department
P.O. Box 1028
Georgetown
Commissioner of Geology and Mines:
M. A. Lee
- C Cartography Section, Lands Division
Ministry of Agriculture and Natural
Resources
Victoria Law Courts
Georgetown
- H Ministry of Works and Hydraulics
Georgetown

Netherlands Antilles

- C Bureau voor Kadaster en Kaartering
Willemstad
Curaçao

SOUTH AMERICA—Continued

Paraguay

- G Dirección de la Producción Mineral
Tucará 271
Asunción
Director: Ricardo Mazo
- C Instituto Geográfico Militar
Avenidas Artigas y Vía Ferrea
Asunción
Director General: Abraham Abed

Peru

- G Servicio de Geología y Minería
Paz Soldan 225
San Isidro, Aptdo. 889
Lima
Director: Eleodoro Bellido
- G Instituto Geofísico del Perú
Aptdo. 3747
Lima
Director: Alberto A. Giesecke M.
- C Instituto Geográfico Militar
Avenida Andrés Aramboru 1198
Aptdo. 2038
Lima
Director General: Guillermo Fernandez
Davila Noriega
- C Servicio Aerofotográfico Nacional
Base Aérea de las Palmas-Barranco
Lima
Director: Frank Tweddle Granda
- H Ministry of Public Health
Department of Sanitary Engineering
Lima
- H Dirección de Irrigación
Ministerio de Fomento y Obras Públicas
Lima
- R Dirección General de Hidrocarburos
Ministerio de Energía y Minas
Lima
Director: Felix Guerra Chavez
- R Oficina Nacional de Evaluación de
Recursos Naturales
Aptdo. 4992
Lima
Director General: Jose Lizarraga R.

SOUTH AMERICA—Continued

Surinam

- G Geologisch Mijnbouwkundige Dienst
Klein Wasserstraat 1 (2-6)
Paramaribo
Director: G. Doeve
- C Centraal Bureau Luchtkartering
P.O. Box 971
Paramaribo

Uruguay

- G Instituto Geológico del Uruguay
Calle J. Herrera y Obes 1239
Montevideo
Director: Mario Gil Nin
- G Servicio Oceanográfico y de Pesca
Julio Herrera y Obes 1467
Montevideo
Director: Luis Franzini
- C Servicio Geográfico Militar
Avenida 8 de Octubre 3255
Montevideo
Director: Leonardo Pastorino
- C Ministerio de Obras Públicas
Dirección de Topografía
Sarandi 90
Montevideo

Venezuela

- G, H Dirección de Geología
Ministerio de Minas e Hidrocarburos
Torre Norte, Piso 19
Caracas
Director: Enrique M. Araujo
- C Dirección de Cartografía Nacional
Edificio Camejo, 2° Piso
Av. Este 6, Centro Simón Bolívar
Caracas
Director: Adolfo C. Romero M.
- H Dirección de Recursos Hidráulicos
Ministerio de Obras Públicas
Caracas
Director: José Ramón Velasco Guerra
- R Ministerio de Minas y Petróleo
Torre Norte, Piso 20
Caracas
Director: Valentin Hernandez

EUROPE

Albania

- G Ministry of Industry and Mining
Tirane
- C Association of Scientific Workers of
the Peoples Republic of Albania
Tirane
- H Instituti Hidrometeorologjik
Tirane

Austria

- G Geologische Bundesanstalt
Rasumofskygasse 23
A-1031 Vienna
Director: F. Ronner
- C Österreichische Kommission für
Internationale Erdmessung
Gusshausstrasse 27-29
A-1040 Vienna
President: Friedrich Hauer
- C Bundesamtes für Eich- und
Vermessungswesen
Krotenthallergasse 3
A-1080 Vienna
- H Hydrographisches Zentralbüro
Marxergasse 2
A-1030 Vienna
Secretary: H. Schimpf
- R Austrian Supreme Mining Authority
Stubenring 1
A-1010 Vienna
Minister: Otto Gassner
- R Austrian Oil Administration
Otto Wagnerplatz 5
A-1090 Vienna
Director General: Ludwig Bauer

Belgium

- G Service Géologique de Belgique
13 rue Jenner, Parc Leopold
Brussels 4
Inspecteur General: A. Delmer
- C Institut Géographique Militaire
13 Abbaye de la Cambre
Brussels 4

EUROPE—Continued

Belgium—Continued

- C Ministère des Travaux Publiques
Service de Topographie et de
Photogrammetrie
155 Rue de la Loi
Brussels 4
- H L'Association Nationale des Services
d'Eau (ANSEAU)
Antwerp
President: G. A. Schroeyers
- R Ministère des Affaires Économique
23 Square de Meeus
Brussels 4
Minister: Edmond Leburton
- R Ministère des Affaires Économique
Administration de l'Energie
26 Rue J. A. de Mot
Brussels 4
Director General: J. Martens
Petroleum-Gas: L. de Schrijver

Bulgaria

- G Direktsiia za Geolozhki in Minni
Prouchvaniia
Ministère des Mines et des Richesses
du Sous-Sol
Sofia
- G Geologicheski Institut
Bŭlgarska Akademiia na Naukite
"7 Nomeuri" 1
Sofia
Deputy Director: B. Bogdanov
- C Research Institute of Geodesy and
Cartography
Sofia-Pavlova, Musala 1
Director: D. Stojčev
- H Research Institute for Hydrology
and Meteorology
Academy of Sciences
Blvd. Lenin No. 66
Sofia

EUROPE—Continued

Czechoslovakia

- G Ustav Geologický
[Geological Institute]
Ceskoslovenská Akademie ved
[Czechoslovak Academy of Sciences]
Lysolaje 6
Pošta Suchdol 2
Praha 6
- G Ústředni Ústav Geologický
Malostranské náměstí 19
Praha 01
Director: J. Svoboda
- C Vojenský Zeměpisný Ústav
Vyznamenaný Řádem Rudé Hvezdy
Praha 6
- H Hydrometeorologický Ústav
[Surface and Ground Water Resources]
Holečkova 8
Praha 5
Director: J. Zitek

Denmark

- G Danmarks Geologiske Undersøgelse
31 Thoravej
DK 2400 København
Director: Ole Berthelsen
- C Geodetic Institute
Rigsdagsgaarden 7
DK 1218 København
Director: Einar Andersen
- R Handelsministeriet
[Ministry of Commerce]
Beredskabskontoret
12 Slotholmsgade
DK 1216 København

Finland

- G Geologinen Tutkimuslaitos
02150 Otaniemi
Director: Herman Stigzelius
- C Geodeettinen Laitos
[Geodetic Institute]
Pasilankatu 43A
00240 Helsinki
Director: T. J. Kukkamäki

EUROPE—Continued

Finland—Continued

- C Land Survey Board
Kirkkokkatu 3
00170 Helsinki
Director: Kantee
- H National Board of Public Roads and
Waterways Construction
Et. Esplanadikatu 4
00130 Helsinki
Director: Niskala

France

- G Centre National de la Recherche
Scientifique
15 Quai Anatole France
75700 Paris
- G Institut Français du Pétrol, de
Conduites, et Lubrifiants
4 Avenue de Bois-Preau
92502 Rueil Malmaison
Director: J. C. Balaceanu
- G Bureau des Recherches Géologiques et
Minières (BRGM)
B.P. 6009
45108 Orléans—La Source 02
Director: Claude Beaumont
- G, H Office de la Recherche Scientifique et
Technique Outre-Mer (ORSTOM)
[Office of Scientific and Technical Re-
search Overseas]
24 rue Bayard
75008 Paris
President: A. Valabregue
- C Institut Géographique National
136 bis Rue de Grenelles
75700 Paris
Director: Georges Laclavere
- C Service de Documentation et de Carto-
graphie Géographiques
191 rue Saint Jacques
75800 Paris
Director: J. Dresch
- H Electricité de France
134 Boulevard Hussmann
75336 Paris Dex 08

EUROPE—Continued

Federal Republic of Germany (West)

- G Geological Institut
TU Clausthal
3392 Clausthal-Zellerfeld
Bonn
- G Bundesanstalt für Geowissenschaften
und Rohstoffe (BGR)
Alfred-Bentz-Haus
Postfach 510153
Stilleweg 2
3 Hannover 51
Acting President: F. N. Bender
- C Institut für Angewandte Geodäsie
Kennedyallee 151
Frankfurt am Main
- C Arbeitsgemeinschaft der Vermessunguer-
waltungen der Länder der Bundes-
republik Deutschland (AdV)
Warmbüchenkamp 2
Hannover
- R Oberbergamt Clausthal-Zellerfeld
[Mining authority]
3392 Clausthal-Zellerfeld
Hindenburgplatz 9
Bonn
Director: Rudolf Koch

German Democratic Republic (East)

- G Zentrales Geologisches Institut
104 Berlin Invalidenstrasse
Berlin
Director: Karl Schmidt

Great Britain

- G Institute of Oceanographic Sciences
Wormley, Godalming
Surrey GU8 5UB
Director: H. Charnock
- G Directorate of Overseas Surveys
Foreign and Commonwealth Office
Kingston Road
Tolworth, Surbiton
Surrey KT5 9NS
Director: D. E. Warren

EUROPE—Continued

Great Britain—Continued

- G Institute of Geological Sciences
Exhibition Road, South Kensington
London, SW7 2DE
Director: Kingsley Dunham
- C Directorate of Military Survey
Ministry of Defense
Elmwood Avenue
Feltham, Middlesex
Director: J. Kelsey
- C Ordinance Survey of Great Britain
Ramsey Road, Maybush
Southampton SO9 4DH
Director: B. St. G. Irwin
- H Institute of Hydrology
Natural Environment Research Council
Howbery Park, Wallingford
Berkshire
Director: J. S. G. McCulloch

Greece

- G, H Institouton Geologias kai Ereynon
Ypedaphous
[Institute of Geologic and Subsurface
Research]
Amerikis No. 6
Athens
- C Hellenic Army Geographical Service
Athens
- R National Petroleum Service
Ministry of Coordination
4 Karageorgi Servias Street
Athens 125
Director General: N. Mavrakis

Hungary

- G Magyar Allami Földtani Intézet
[Hungarian State Geological Institute]
Népstadion-ut 14, Pf. 106
Budapest 1442
Director: Jozsef Konda
- G Magyar Allami Eötvös Loránd
Geofizikai Intézet
[Hungarian Geophysical Institute]
Kolombusz p. 17-23
Budapest XIV
Director: Pál Müller

EUROPE—Continued

Hungary—Continued

- G Magyar Tudományos Akadémia
Geokémiai Kutató Laboratóriuma
[Geochemical Research Laboratory]
Museum-krt. 4/a
Budapest 1088
Director: Elemér Szádeczky-Kardoss
- G, C Magyar Tudományos Akadémia
Geodéziai és Geofizikai Kutató Intézete
[Geodetic and Geophysical Research]
Múzeum u. 6
Sopron 9400
Director: Jozsef Somogyi
- C M. B. M. Országos Földügyi és
Térképészeti Hivatal
[National Cadaster and Cartography
Bureau]
Kossuth Lajos tér 11
Budapest V
- H Vizgazdálkodási Tudományos Kutató
Intézet
[Research Institute for Water Resources
Development]
Rákóczi út 41
Budapest 1088
Director: Károly Stelczer

Iceland

- G Natural Heat Section
National Energy Authority
Reykjavik
Head: Guðmundur Palmason
Chief Geologist: Jon Jonsson
- C Icelandic Survey Department
Laugavegi 178
Reykjavik

Ireland

- G Geological Survey of Ireland
14 Hume Street
Dublin 2
- C Ordinance Survey of Ireland
Phoenix Park
Dublin

EUROPE—Continued

Ireland—Continued

- R Establishment and Fuel and Power
Division
Department of Transport and Power
Kildare Street
Dublin 2
Principal Officer: D. S. O'Maolain

Italy

- G Istituto Internazionali di Vulcanologia
Viale Regina Margherita 6
Catania
Director: G. Marinelli
- G Servizio Geologico d'Italia
Ministero dell'Industria del Commercio
e dell'Artigianato
Direzione Generale della Miniere
Largo di Santa Susanna 13
Roma
Director: Alfredo Iacobacci
- C Istituto Geografico Militare
Via Cesare Battisti 10
Firenze
- R Ministero Industria e Commercio e
Artigianato
Direzione Generale dell'Industrie di
Base e delle Fonti di Energia
Via Molise 43
Roma

Liechtenstein

- G Geological Survey of Liechtenstein
Vaduz

Luxembourg

- G Service Géologique de Luxembourg
Direction des Ponts et Chaussées
13, rue J. P. Koenig
Luxembourg
Director: Michel Lucius
- C Administration du Cadastre et de la
Topographie
54 Avenue Gaston Diderich
Luxembourg

Malta

- C Department of Information
24 Merchants Street
Valletta

EUROPE—Continued

Netherlands

- G Rijks Geologische Dienst
Spaarne 17, P.O. Box 157
Haarlem
Director: A. A. Thiadens
- C Topografische Dienst
Westvest 9
Delft
- H Ministry of Transport and Waterways
Bureau of Water Control and Works
The Hague
Director: A. Volker
- R Ministry of Economic Affairs
Directorate General for Energy
Bezuidenhoutsweg 30
The Hague
Minister: L. de Block

Northern Ireland

- G Geological Survey of Northern Ireland
20 College Gardens
Belfast

Norway

- G Geofysiske Kommisjon
Blindern
Oslo 3
President: R. Fjørtoft
- G, C Norsk Polarinstitut
Rolfstangveien 12,
Postboks 158
Oslo Lufthavn
Director: Tore Gjelsvik
- G Norges Geologiske Undersøkelse
P.B. 3006 Ostmarkneset
Leiv Erikssons Vei 39
Trondheim
Managing Director: Knut S. Hejer
- C Norges Geografiske Oppmåling
St. Olavs Gt. 32
Oslo
- H Norwegian Institute for Water
Resources
Council for Science and Industry
Gaustadalleen 25
Blindern
Oslo

EUROPE—Continued

Norway—Continued

H Water Resources and Electricity Board
Water Resources Division
P.O. Box 5091
Oslo
Chief: A. H. Hjelm-Hansen

R Norwegian Petroleum Directorate
Lagaards Veien 80,
Stavanger
Director: Fredrik Hagemann

Poland

G Zakład Paleozoologii
Zwirki i Wigury
Warsaw
Director: Zofia Kielan-Jaworowska

G Instytut Geophysica
Pasteura 3
Warsaw
Director: Roman Tiesseyre

G Główny Instytut Górnictwa
[Central Mining Institute]
Plac Gwarków I
Katowice
Director: Erast Konstantynowicz

G Centrainig Urząd Geologii
[Research Center for Geological
Sciences]
Zwirki i Wigury 93
Warsaw
Director: M. Książkiewicz

G, H Instytut Geologiczny
ul. Rakowiecka 4
Warsaw
Director: Roman Osika

G Instytut Naftowy
[Institute of Petroleum]
ul. Lubiec 25a
Cracow
Director: Józef Gumuxczyński

C Centralny Urząd Geodezji i Kartografii
Warsaw

EUROPE—Continued

Poland—Continued

H Instytut Meteorologii i Gospodarki
Wodnej
Podleśna
Warsaw
Director: Eryk Bobiński

Portugal

G Direcção Geral de Minas e Serviços
Geológicos
Ministério da Economia
Rua António Enes, 5
Lisbon
Director: Fernando Soares Carneiro

G Serviços Geológicos de Portugal
Rua da Academia das Ciências 19
Lisbon 2
Director: Fernando Moitinho de Almeida

C Instituto Geográfico e Cadastral
Ministério das Finanças
Praça da Estrela
Lisbon

H Estação Aquícola
[Water Research Station]
Villa do Conde
Lisbon
Director: Joaquim Antonio Soares
Soeiro

R Secretary of State for Industry
Avenida Miguel Bombarda, 6
Lisbon 1
Director: Francisco Goncalves
Cavaleiro de Ferreira

Romania

G Institutul de Geofizică Aplicată
Str. Izvor 78
Bucharest 5
Director: D. Romanescu

G Institutul de Geologie și Paleontologie
Universitatea "Babes-Bolyai"
Str. M. Kogalniceanu 1
Cluj
Director: O. Protescu

EUROPE—Continued

Romania—Continued

- G Institutul Geologic
Sos Kiseleff 55
Bucharest
Director: Marcian Bleahu
- C Institutul de Geologie și Geografie
Str. Dr. Burghale 1
Bucharest
- H Institutul de Meteorologie și Hidrologie
Sos Bucuresti Ploiesti 97
Bucharest
Director: N. Ciovică
- R Ministry of Mining, Petroleum, and
Geology
Str. Mendeleev 36-38
Bucharest
Minister: Bujor Amasan
- R Ministry of Petroleum
Blvd. Republicii 32
Bucharest

Spain

- G Instituto Nacional de Geofísica
Serrano 123
Madrid
Director: Luis Lozano Calvo
- G Servicio de Geología de Obras Publicas
81 Avenida de Portugal
Madrid
Director: Manuel Gomez de Pablos
- G Empresa Nacional ADARO de Investi-
gaciones Mineras, S. A.
Serrano, 116
Madrid
Director: Juan Antonio Gómez-Angulo
- G Instituto Geológico y Minero de España
Rios Rosas 23
Madrid
- C Instituto Geográfico y Catastral
Calle del General Ibáñez de Ibero 3
Madrid
Director General: Juan García
Frías y García

EUROPE—Continued

Spain—Continued

- H Instituto de Hidrología
Patronato "Alfonso el Sabio"
Paseo Bajo de la Virgen del Puerto 3
Madrid
President (of Patronato):
P. Antonio Romaná
- R Ministerio de Industrias
Serrano 35
Madrid
Minister: Alfredo Santos Blanco

Sweden

- G, H Sveriges Geologiske Undersokning
S10405 Stockholm
Director: Leif Andreasson
- G Norrlandsfonden
[Northland Foundation]
Smedjegatan 17
S95100 Lulea
Chairman: Gunnar Lange
- G Statens Geotekniska Institut
(Engineering Geology)
Banergatan 16
S11526 Stockholm
Director: Bengt B. Broms
- C Rikets Allmanna Kartverk
[Geographical Survey Office]
Fack
S16210 Vällingby
Director: Harry Wikström
- H Sveriges Meteorological och
Hydrologiska Institut
Fridhensgatan 9
P.O. Box 12108
10223 Stockholm
Director: Alf Nyberg

Switzerland

- G, H Schweizerische Geologische Kommission
Naturforschende Gesellschaft
4000 Bernoulistr. 32
Basel
Director: A. Spicher

EUROPE—Continued

Switzerland—Continued

- C Bidgenossische Landestopographie
[Topographical Survey of Switzerland]
Seftigenstrasse 264
Director: E. Huber
- H Office Fédéral de l'Economie Hydraulique
3011 Berne
- H Service Hydrographique
Bollwerk 27
Berne
- R Eidgenössisches Amt Fuer
Energiewirtschaft
Erdoel und Gas Wirtschaft
Kapellenstrasse 14
3011 Berne
Director: Hans Rudolf Siegrist

Union of Soviet Socialist Republics (USSR)

- G All-Union Geological Scientific Research
Institute (VSEGEI)
Sredny Prospekt 72B
Leningrad 199026
Director: A. Zhamoida
- G Geologic Institute
Akademiya Nauk SSSR
Pyzhevsky per. 7,
Moscow G-17
Director: A. V. Peyve
- G Vernadsky Institute of Geochemistry
Akademiya Nauk SSSR
Vorobievskoe schosse 47a
Moscow
Director: A. P. Vinogradov
- G Institute of Earth Physics
Akademiya Nauk SSSR
B Gruzinskay ul., 10
Moscow D-242,
Director: M. A. Sadovsky
- G Section of Earth Sciences
Department of Geology, Geophysics, and
Geochemistry
Akademiya Nauk SSSR
Leninsky Prospekt 14
Moscow
Academician—Secretary (of
Department): V. I. Smirnov

EUROPE—Continued

USSR—Continued

- G Institute of Oceanology
Department of Oceanology, Atmospheric
Physics, and Geography
Letnaya ul 1,
Lyublino
Director: A. S. Monin
- G Institute of Volcanology
Siberian Department
Akademiya Nauk
Porgranichaya ul. 3
Petropavlovsk, Kamchatka
Director: G. S. Gorshkov
- G Institute of Geology and Geophysics
Siberian Department
Akademiya Nauk
Akademgorodok
Novosibirsk
Director: A. A. Trofimuk
- G Institute of Frozen Soils
Siberian Department
Akademiya Nauk
Yakutsk
Director: P. I. Melnikov
- G Institute of the Earth's Crust
Siberian Department
Akademiya Nauk
ul. Lermontova 128
Irkutsk
Director: M. M. Odintsov
- G Ministry of Geology of the USSR
Bolshaya Gruzinskaya, 416
Moscow D-242
- C Glavnoe Upravlenie Geodezzii
I Kartografi
[Main Administration for Geodesy and
Cartography]
Ministerstva Vnutrennikh del SSSR
Moscow
Deputy Director: L. A. Kashin
- H Hydrometeorological Service
12, Pavlik Morozov Street
Moscow D-376

EUROPE—Continued**USSR—Continued**

- H Institute of Hydrodynamics
Siberian Department
Akademiya Nauk
Akademgorodok
Novosibirsk
Director: M. A. Lavrentiev

Yugoslavia

- G Zavod za Geološki i Geofizička
Istraživanja
[Institute for Geological and
Geophysical Research]
Post-fah 227
Kamenicka 16
Belgrade
Director: Živojin Djordjević
- G Geoinženjering Sarajevo
Institut za Geotehnikui Hidrogeologiju,
Ilidza
Director: Safet Cicic
- G Institute for Geological and Mining
Exploration and Investigation of
Nuclear and other Mineral Raw
Materials
Rovinjska 12
Belgrade
Director General: Milorad Nikolic
- C Glavna Geodetska Uprava Pri Vladi
Federativne
Narodne Republike Jugoslavije
Belgrade
- H Institute for Development of Water
Resources
Vojvo de Mišića 43
Belgrade
- H Federal Hydrometeorologica Institute
Bercaninova 6
Belgrade
- R Nafta-Poslovno udruzenje
Marticeva 65
Zagreb

AFRICA**Algeria**

- G Service Géologique de l'Algérie
Immeuble Mauretania—Agha
Boulevard Colonel Amirouche
Agha
Director: Omar Merabet

AFRICA—Continued**Algeria—Continued**

- C Institut National de Cartographie
Ministère de la Defense Nationale
B.P. 32
Hussein Dey
- C Institut Géographique National
20 rue Abane Ramdane
Algiers
Director: M. Pinson
- H Hydrology Department
Ministry of Public Labor
Algiers
Director: Mohammed Benblidia
- R Ministère de l'Industrie et de l'Énergie
Immeuble le Colisée
Rue Zephirin Roccas
Algiers
Minister: Belaid Abdesslam

Angola

- G, C, Direcção dos Serviços de Geologia e Minas
- R Caixa Postal 1260—C
Luanda
Director: Jorge Manuel Trigo de Mira

Botswana

- G, C Geological Survey and Mines
Department
P.O. Box 94
Lobatsi
Director: J. V. Hepworth
- H Department of Water Affairs
Ministry of Commerce, Industry, and
Water Affairs
P.B. 29
Gaborone
Permanent Secretary: P. W. Reardon

Burundi

- G Ministère des Affaires Economiques et
Financières
Département de Géologie et Mines
B.P. 745
Bujumbura
Director: Raphael Banciyeko

Cameroon

- G Direction des Mines et de la Géologie du
Cameroun
B.P. 70
Yaoundé

AFRICA—Continued

Cameroon—Continued

- G Office de la Recherche Scientifique et
Technique Outre-mer Centre
ORSTOM de Yaoundé ¹
B.P. 193
Yaoundé
Director: R. Lefevre
- C Institut Géographique National
B.P. 157
Yaoundé
Director: J. Larivé

Central African Republic

- G, C Ministère des Travaux Publics, des
Transports, des Communications et
des Mines
B.P. 737
Bangui
Director: M. Dubois
- G, R Office de la Recherche Scientifique et
Technique Outre-mer Centre ORSTOM
de Bangui ¹
P.B. 893
Director: Y. Chatelin

Chad

- G, C Direction des Mines et de la Géologie
B.P. 816
Fort-Lamy
Director: Omar Abdoul
- G Bureau de Recherches Géologiques et
Minières ¹
B.P. 449
Fort-Lamy
Director: M. Abadie
- G Office de la Recherche Scientifique et
Technique Outre-mer Centre ORSTOM
de Fort-Lamy ¹
B.P. 65
Fort-Lamy
Director: P. Audry

Congo, Republic of

- G Service des Mines et de la Géologie
B.P. 12
Brazzaville

AFRICA—Continued

Congo, Republic of—Continued

- G Bureau de Recherches Géologiques et
Minières ¹
B.P. 431
Brazzaville
Director: M. Nicault
- C Institut Géographique National
Centre en Afrique Equatoriale
P.B. 125
Brazzaville

Dahomey

- G Direction des Mines, de la Géologie, et
des Hydrocarbures
Ministère des Travaux Publics, des
Transports et des Telecommunications
B.P. 249
Cotonou
Chief: Julien C. Laleye
- G, H Office de la Recherche Scientifique et
Technique Outre-mer Centre ORSTOM
de Cotonou ¹
B.P. 390
Cotonou
Director: P. Viennot
- C Service Topographique
Ministère des Travaux Publics
B.P. 360
Cotonou

Ethiopia

- G Geological Survey
Ministry of Mines
P.O. Box 486
Addis Ababa
- C Government Mapping and Geography
Institute
P.O. Box 597
Addis Ababa
Director: D. Assaye
- H Water Resources Department
Ministry of Public Works and
Communication
P.O. Box 1008
Addis Ababa

¹ Designates French research organization, without governmental affiliation.

AFRICA—Continued

Ethiopia—Continued

R Ministry of Mines
P.O. Box 486
Addis Ababa
Minister: Ato Emmanull Abraham

French Territory of Afars and Issas

G Services des Travaux Publiques
Djibouti

Gabon

G, C Bureau de Recherches Géologiques et
Minières
B.P. 175
Libreville
Director: M. Arnould

H Office de la Recherche Scientifique et
Technique Outre-mer, Centre
ORSTOM de Libreville ¹
B.P. 3115
Libreville
Director: D. Martin

R Direction des Mines
B.P. 576
Libreville

Gambia

C Survey Department
Bathurst

Ghana

G Geological Survey of Ghana
P.O. Box M 80
Ministry Branch Post Office
Accra

C Ghana Geographical Association
University of Ghana
Legon
President: E. A. Boateng

C Survey Division
P.O. Box 191
Cantonments
Accra
Chief Survey Officer: R. J. Simpson

AFRICA—Continued

Ghana—Continued

H Water Resources Research Unit
Council for Scientific and Industrial
Research
P.O. Box M 32
Accra
Officer in charge: E. Lartey

Guinea

G Services des Mines et de la Géologie
Conakry

Ivory Coast

G Service Géologique
Direction de la Géologie et de la
Prospection Minière
Ministère de l'Economie et des Finances
B.P. 1368
Abidjan
Director: Paul Ahui

C Ministère des Travaux Publiques et des
Transports
B.P. 20952
Abidjan

G, C Société pour le Développement Minier de
la Côte d'Ivoire (SODEMI)
B.P. 2816
Abidjan

Kenya

G Geological Survey of Kenya
Mines and Geological Department
Ministry of Natural Resources
P.O. Box 3009
Nairobi
Director: B. N. Baher

C Survey of Kenya
P.O. Box 30046
Nairobi
Director: P. P. Anyumba

H Water Department
Ministry of Agriculture
P.O. Box 30521
Nairobi

¹ Designates French research organization, without governmental affiliation.

AFRICA—Continued

Lesotho

- G Geological Survey Department
Department of Mines and Geology
P.O. Box 750
Maseru
Head: W. C. Fairbain
- C Township Survey Department
P.O. Box 20
Maseru
- H Hydrology Department
Maseru
Director: Thomas R. Hyde

Liberia

- G, H Liberian Geological Survey
Ministry of Lands and Mines
P.O. Box 9024
Monrovia
Director: Cletus S. Wotorson
- C Liberian Cartographic Service
Ministry of Lands and Mines
P.O. Box 9024
Monrovia
Director: J. L. F. Sawyerr
- G, C, H, R Ministry of Lands and Mines
P.O. Box 9024
Monrovia
Minister: A. E. Nyema Jones

Libya

- G Geological Research and Mining
Department
Industrial Research Center
P.O. Box 3633
Tripoli
Director: Faisal Zaied Ali
- C Ministry of Planning and Development
Director of Surveying and Mapping
Bengasi
Director: Muftah Unis
- R Ministry of Petroleum Affairs
Tripoli
Minister: Khaliifah Muusa

AFRICA—Continued

Malagasy Republic

- G Centre Océanographique
Office de la Recherche Scientifique et
Technique Outre-mer (ORSTOM)¹
B.P. 68
Nossi-Bé
Director: A. Crosnier
- G Service Géologique
Ministère des Mines et de l'Energie
B.P. 280, Armandrianomby
Tananarive
- C Institut Géographique National
3 rue Jean Laborde
B.P. 456, Andohalo
Tananarive
Director: M. Perreau-Saussine
- H Hydrological Survey
Tananarive

Malawi

- G Geological Survey Department
Ministry of Natural Resources
P.O. Box 27, Liwonde Road
Zomba
Director: J. H. Bean
- C Survey Department
Ministry of Natural Resources
Box 349
Blantyre

Mali

- G Direction National des Mines et de la
Géologie
Koulouba, Bamako
- C Institut National de Topographie
B.P. 240
Bamako
Director: Bamory Sanogo
- H Service Hydrologique
B.P. 66
Bamako

¹ Designates French research organization, without governmental affiliation.

AFRICA—Continued

Mauritania

- G Direction des Mines et de la Géologie
Ministère de l'Industrialisation et des
Mines
B.P. 199
Nouakchott
Director: Y. Barbier
- C Service Topographique
B.P. 237
Nouakchott
Director: Habib Ould Ely

Mauritius

- G Ministry of Agriculture and Natural
Resources and Cooperative
Development
Port Louis
- C Ministry of Housing, Lands, and Town
and Country Planning
Survey Department
Port Louis
Director: A. P. Rault

Morocco

- G Institut Scientifique Chérifien
(Geology, Seismology, Geomagnetism)
Ave. Moulay-Chérif
Rabat
Director: H. Msougar
- G Division de la Géologie
Ministère du Commerce, de l'Industrie,
des Mines, et de la Marine marchande
Rabat
Director: Moussa Saadi
- C Service Topographique
Ministère de l'Agriculture
Avenue Moulay Youssef
Rabat
Director: M. Naceur
- H Direction de l'Hydraulique
Division de Ressources en Eau
B.P. 525 Rabat-Chellah

AFRICA—Continued

Morocco—Continued

- R Ministère de la Production Industrielle
et des Mines
Avenue Mohammed V
Quartier Administratif
Rabat
Under-Secretary of State:
Adelaziz Benjelloun

Mozambique

- G Direcção dos Serviços de Geologia e
Minas
Caixa Postal 217
Lourenço Marques
Director: J. M. Trigo Mira
- C Secretary for Lands and Rural
Development
Geographical and Cadastral Service
Lourenço Marques

Niger

- G, H Service des Mines et de la Géologie
Ministère des Travaux Publiques et des
Mines
B.P. 257
Niamey
Director: M. O. Diallo Oumar
- C Service Topographique et du Cadastre
Ministère des Finances
B.P. Box 250
Niamey

Nigeria

- G, H Geological Survey Division
Ministry of Mines and Power
P.M.B. 20007
Kaduna South
Director: C. N. Okezie
- C Land and Surveys Division
Ministry of Works and Housing
Lagos
- R Federal Ministry of Mines and Power
Yakubu Gowon Street
Lagos
Commissioner: Shettima Ali Monguno

AFRICA—Continued

Nigeria—Continued

- R Federal Ministry of Mines and Power
Broad Street Office
Lagos
Chief Petroleum Engineer: M. O. Feyide

Portuguese Guinea

- G Serviços de Geologia e Minas
Caixa Postal 399
Bissau

Reunion

- G Services des Travaux Publiques
St. Denis

Rhodesia

- G Geological Survey of Rhodesia
Ministry of Mines and Lands
P.O. Box 8039, Causeway
Salisbury
Director: F. L. Amn
- C Department of Trigonometrical and
Topographical Surveys
Salisbury

Rwanda

- G Service Géologique du Rwanda
Ministère du Commerce, des Mines et de
l'Industrie
B.P. 15
Ruhengeria
Director: P. Corminboeuf
- C, H Service des Terres
Ministère de l'Agriculture et de
l'Elevage
B.P. 621
Kigali

Senegal

- G Centre de Géophysique
Office de la Recherche Scientifique et
Technique Outer-mer (ORSTOM)¹
B.P. 50, M'Bour
Director: C. Blot

¹ Designates French research organization, without governmental affiliation.

AFRICA—Continued

Senegal—Continued

- G Bureau de Recherches Géologiques et
Minières
B.P. 268
Dakar
Director: M. Delafosse
- C Institut Géographique National
Dakar
- H Direction Energie et Hydraulique
B.P. 4021
Dakar

Sierra Leone

- G Geological Survey Division
Ministry of Lands, Mines, and Labor
New England
Freetown
Director: A. H. Gabiri
- C Surveys and Land Division
Ministry of Lands, Mines, and Labor
Freetown

Somalia

- G Geological Survey Department
Ministry of Mining
P.O. Box 744
Mogadiscio
Director: V. N. Kozerenko
- C Survey and Mapping Department
P.O. Box 24
Mogadiscio
Director: Musa Adan Wadadid

South Africa

- G, H Geological Survey of South Africa
Department of Mines
P.O. Box 112
Pretoria
Director: J. F. Enslin
- G Magnetic Observatory
(Geomagnetism, Seismology)
P.O. Box 32
Hermanus
Head: A. M. van Wijk

AFRICA—Continued

South Africa—Continued

- C Trigonometrical Survey
Rhodes Avenue
Mowbray, Cape Town
Director: F. W. Marsh
- H National Institute for Water Research
(CSIR)
P.O. Box 395
Pretoria
Director: G. J. Stander
- R South African Department of Mines
Oranje-Nassau Building
Schoeman Street
Pretoria
Minister: C. de Wet
- R South African Department of Industries
Forum Building
Bosman and Struben Streets
Pretoria
Secretary: J. J. Kitsoff

South-West Africa (Namibia)

- G Geological Survey
P.O. Box 2168
Windhoek
- C The Surveyor General
Windhoek

Spanish Sahara

- G Dirección General de Plazas y Provincias
Africanas
Servicio Minero y Geológico
Castellana No. 5
Madrid, Spain

Sudan

- G Geological Survey Department
Ministry of Mining and Industry
P.O. Box 410
Khartoum
Director: Abdel Latif Widatalla
- C Topographical Survey Division
Survey Department
Khartoum
Director: Abdel Wahab Ahmed Hassan

AFRICA—Continued

Sudan—Continued

- H Rural Water and Development Corp.
Chief Engineer's Office
Khartoum

Swaziland

- G, R Geological Survey and Mines
Department
P.O. Box 9
Mbabane
Director: D. N. Davis
- C Public Works Department
Ministry of Works, Power, and
Communications
P.O. Box 58
Mbabane

Tanzania

- G Geological Survey
Mineral Resources Division
Ministry of Commerce and Industries
P.O. Box 903
Dodoma
Director: Alex C. M. McKinley
- C Survey Division
Ministry of Lands, Settlement, and
Water Development
Dar es Salaam
Director: William Dickson

Togo

- G Direction des Mines et de la Géologie
Ministère des Travaux Publiques, Mines,
Transports, et Télécommunications
B.P. 356
Lomé
Director: Otto Gartner
- C Service Topographique
Ministère des Finances et de l'Economie
Lomé
- H Office de la Recherche Scientifique et
Technique Outre-mer Centre ORSTOM
de Lomé ¹
B.P. 375
Lomé
Director: A. Le Cocq

¹ Designates French research organization, without governmental affiliation.

AFRICA—Continued

Tunisia

- G Service Géologique de Tunisie
95 Avenue Mohamed V
Director: H. Besbes
- C Division Topographie
Secretariat d'État aux Travaux
Publiques et à l'Habitat
Rue de Jordanie
Tunis
Director: S. Benghachane
- H Division des Ressources en Eau
41 Rue de la Manoubia
Tunis
- H Service de l'Hydraulique et de
l'Équipement rural
Sous-Secrétariat de l'Agriculture
Tunis
- R Department des Mines et de l'Énergie
Sous-Secrétariat d'État à l'Industrie et
au Commerce
Tunis
Chief: Mekki Zidi
- R Sous-Secrétariat d'État au Plan à
l'Industrie et au Commerce
Tunis
Chief: Abderrazak Rassa

Uganda

- G Geological Survey and Mines Department
P.O. Box 9
Entebbe
Commissioner: C. E. Tamale-Ssali
- C Office of the Commissioner of Lands and
Surveys
P.O. Box 7061
Kampala
Commissioner: S. Labeca Okec
- H Ministry of Minerals and Water
Resources
Water Development Department
Kampala

United Arab Republic

- G Geological Survey and Mining Authority
Ministry of Industry
Abbassia Post Office
Cairo
Chairman: Rhusdi Said

AFRICA—Continued

United Arab Republic—Continued

- C Survey Department
20 Bagdad Street, El Giza
Cairo
Director: Ibrahim Mostafa Ganem
- G, H Academy of Scientific Research
and Technology
101 Kasr El Aini St.
Cairo
Director: E. M. El Shazly
- H Hydrological Research Station
Kanater-al-Khaiyria Barrages
Cairo
Director: A. A. El-Darwish
- R General Petroleum Co.
Dr. Mustafa Abu Zahra Street
Nasr City
Cairo
Head: Ahmed El-Barkouki

Upper Volta

- G Direction de la Géologie et des Mines
B.P. 601
Ouagadougou
Director: Philippe Ouedraogo
- C Service Topographique
Ministère des Travaux Publiques
Ouagadougou
- H Office de la Recherche Scientifique et
Technique Outre-mer Centre ORSTOM
à Ouagadougou ¹
B.P. 189
Ouagadougou
Director: H. Barral

Zaire

- G Service Géologique du Zaire
B.P. 898
44 Avenue des Huileries
Kinshasa
Director: Gabriel Dembe
- C Institut Géographique
106 Blvd du 30 Juin
B.P. 1873
Kinshasa
Director: M. E. Nzungu

¹ Designates French research organization, without governmental affiliation.

AFRICA—Continued

Zambia

- G Geological Survey of Zambia
Ministry of Mines and Mining
Development
P.O. Box RW 135
Ridgeway, Lusaka
Director: A. R. Drysdall
- C Department of Surveys
Ministry of Lands and Natural
Resources
P.O. Box RW 397
Ridgeway, Lusaka
Surveyor General: J. L. Seftel

NEAR EAST-SOUTH ASIA

Afghanistan

- C Department of Mines and Geology
Ministry of Mines and Industries
Darulaman
Kabul
Director: Abdullah Samad Salah
- C Institute of Cartography
Ministry of Mines and Industries
Kabul
Director: Muzaffarud Din Yaqubi
- H Water and Soil Survey Department
Ministry of Agriculture and Irrigation
Kabul
President: Joma Mohd. Mohammadi

Bangladesh

- G Geological Survey
Pioneer Road
Segun Bagicha
Dacca
Director General: Mesbahuddin Ahmed

Cyprus

- G Geological Survey Department
Ministry of Agriculture and Natural
Resources
Nicosia
Director: Yiingos Cos Hj Stavrinou
- C Department of Lands and Surveys
Ministry of the Interior
Nicosia
Deputy Minister: Andreas Christofi

NEAR EAST-SOUTH ASIA—Continued

Cyprus—Continued

- H Water Development Department
Ministry of Agriculture and Natural
Resources
Nicosia
Director: Christos Antoniou Konteatis

India

- G Central Seismological Observatory
Shillong
- G Geological Survey of India
27 Jawaharlal Nehru Road
Calcutta 13
Director General: C. Karunakaran
- G National Geophysical Research Institute
Hyderabad 7
Director: Hari Narain
- G Mining, Geological, and Metallurgical
Institute
29 Jawaharlal Nehru Road
Calcutta 16
President: K. Z. George
- G National Institute of Oceanography
Miramar, Panaji
Goa
Director: N. K. Panikkav
- C Geodetic and Geophysical Surveys
Survey of India
Dehra Dun
Director: J. Chatterjee
- C Survey of India
Surveyor General Office
P.O. Box 37
Dehra Dun (H.P.)
- H Central Ground Water Board
Faridabad, Haryana
Chairman: B. B. Vorha
- R Ministry of Petroleum and Chemicals
Government of India
Dr. Rajendra Prasad Road
New Delhi 1
Minister: Triguna Sen

NEAR EAST-SOUTH ASIA—Continued**Iran**

- G Geological Survey of Iran
P.O. Box 1964
Tehrān
Managing Director: R. Assafi
- C National Cartographic Centre
P.O. Box 1844, Mahrabad
Tehrān
Director: G. Basseri
- C National Geographic Organization
Imperial Iranian Army
Tehrān
- H Institute of Hydro-Sciences and Water
Resources Technology
64 Ghadessi Street, North
Boulevard Elizabeth
Tehrān
Director: M. Mozayeny
- H Ministry of Water and Power
Tehrān
Minister: Mansour Rohani

Iraq

- G Petroleum Research Institute
Shalijiah
Baghdad
Director: Abood Al-Khafaji
- G Geological Survey Department
Directorate of Minerals
Ministry of Oil
P.O. Box 2330
Aliviya, Baghdad
- C Survey Department
Directorate General of Surveys
Baghdad
Director: Fuad Mohamad Ali Al-Hakim
- H Institute of Research on Natural
Resources
Abu Chraib
Baghdad
Director: Abood Al-Khafaji
- R Ministry of Oil and Minerals
Baghdad
Minister: Saddoon Hammadi

NEAR EAST-SOUTH ASIA—Continued**Israel**

- G Geological Survey of Israel
30 Malchei Israel Street
Jerusalem
Director: Eliahu Zohar
- G, H Institute for Petroleum Research and
Geophysics
P.O. Box 269
Holon
Managing Director: Z. Benari
- C Department of Surveys
Ministry of Labor
P.O. Box 622941
Tel Aviv
Director: R. Adler
- H Hydrological Service
Jerusalem
- H Tahal-Water Planning for Israel
Tel Aviv
Director General: Aaron Weiner
- R Ministry of Development
38 Keren Hayesod Street
Jerusalem
Petroleum Commissioner: Moshe
Ettinger

Jordan

- G, C, Natural Resources Activity
H, R Box 7
Amman
Director General: Yousef Nimry
- G Royal Scientific Society
P.O. Box 6945
Amman
- C Department of Lands and Surveys
P.O. Box 70
Amman

Kuwait

- G Kuwait Oil Affairs Department
Ahmadi 94
Al Kuwayt
- H Ministry of Electricity and Water
Al Kuwayt
Chief Engineer (Water and Gas):
Abdullah Abdulmakzia al-Sharhan

NEAR EAST-SOUTH ASIA—Continued**Kuwait—Continued**

- G Kuwait Institute for Scientific Research
Hilali Street
P.O. Box 12009
Al Kuwayt
Director: T. Oinomikado
- R Kuwait National Petroleum Company
(partly government owned)
P.O. Box 70
Al Kuwayt
Chairman: Ahmad Sayid Omar
- R Ministry of Finance and Oil
Al Kuwayt

Lebanon

- G Direction Generale des Travaux
Publiques
Ministère des Ressources Naturelles et
Energie Hydraulique
Beirut
- C Institut de Géographie du Proche et
Moyen Orient
Avenue de Damas
B.P. 2691
Beirut
Director: M. Le Lannou
- C Service de la Topométrie
Directoire des Affaires Géographiques
Beirut
Director: Khaldoun Haidar
- H Ministère des Ressources Hydrauliques
et Electriques
Beirut
Director General: Mohammad Fawaz

Nepal

- G Nepal Geological Survey
Lainchaur
Kathmandu
- G Nepal Bureau of Mines
Lainchaur
Kathmandu
- C Survey Department
Ministry of Land Reform, Agriculture,
and Food
Kathmandu

NEAR EAST-SOUTH ASIA—Continued**Nepal—Continued**

- H Department of Hydrology and
Meteorology
Kathmandu
Director General: Gopal Amatya

Oman

- G Ministry of Agriculture, Fisheries,
Petroleum, and Minerals
P.O. Box 550/551
Muscat
Minister: Sayyid Ahmad al Shan Fari

Pakistan

- G Geological Survey of Pakistan
P.O. Box 15
Quetta
Director General: A. Mannan Khan
- C Survey of Pakistan
Karachi
- R Natural Resources Division
Ministry of Industries and Natural
Resources
Rawalpindi
Director, Directorate of Oil Operations:
N. H. Qureshi

Qatar

- G Qatar Petroleum Company
Doha

Saudi Arabia

- G, R Ministry of Petroleum and Mineral
Resources
Directorate General of Mineral
Resources
P.O. Box 345
Jiddah
Deputy Minister for Mineral Resources:
Fadil K. Kabbani
- C Aerial Survey Department
Ministry of Petroleum and Mineral
Resources
P.O. Box 247
Riyadh
Director General: Soleman Rubaishy

NEAR EAST-SOUTH ASIA—Continued

Saudi Arabia—Continued

- C Centre for Applied Geology
P.O. Box 1744
Jiddah
Director: A. M. Al-Shanti
- H Ministry of Agriculture and Water
Water Conservation Department
P.O. Box 478
Riyadh
Minister: Hassan Muhari
- R Ministry of Petroleum and Mineral
Resources
P.O. Box 247
Riyadh
Minister: Shaikh Ahmad Zaki Yamani

Sri Lanka (Ceylon)

- G Geological Survey Department
48 Sri Jinaratana Road
Colombo 2
Director: D. B. Pattiaratchi
- C Survey Department
P.O. Box 506
Colombo 5
- H Water Resources Board
7 Sigiriya Gardens
Bagatelle Road
Colombo 3
Chairman: H. Hema Basnayake

Syria

- G Directorate of Geological Research and
Mineral Resources
Ministry of Petroleum
Fardos Street
Damascus
Director: Seifuddin Atfeh
- C Service Géographique de l'Armée
Damascus

Turkey

- G Mineral Research and Exploration
Institute of Turkey
Posta Kutusu 116
Eskisehir Yolu
Ankara
Director: Sadrettin Alpan

NEAR EAST-SOUTH ASIA—Continued

Turkey—Continued

- C General Directorate of Turkish Mapping
Service
Ministry of National Defense
Ankara
Director: Sukru Olcay
- H State Hydraulic Works (DSI)
Ankara
- R Ministry of Energy and Natural
Resources
Bakanliklar
Ankara
Minister: Nezik Devres
- R Petroleum Administration
Konue Sokak 37
Yenisehir, Ankara
President: Osman Tolun

Yemen

- G Central Planning Organization
P.O. Box 175
San'a', Y.A.R.
Chairman: Dr. Abdul-Karim El-Eryani
Minister of Development: Mohammed
Ahmed Al-Gunaïd
- G Office of Mineral Resources
Ministry of Public Works
San'a'

EAST ASIA—PACIFIC REGION

Australia

- G Bureau of Mineral Resources
B.M.R. Building
Constitution Avenue
Canberra, A.C.T.
Acting Director: L. C. Noakes
- C Department of National Development
Division of National Mapping
Box 667
P.O. Canberra City 2601
- C Division of National Mapping
Department of National Development
Canberra
Acting Director: J. D. Lines

EAST ASIA-PACIFIC REGION—Continued

Australia—Continued

- H Department of National Development
Canberra
Director: A. I. McCutchan
- R Federal Department of National
Development
Tasman House, Hobart Place
Civic Centre
Canberra, A.C.T.
Secretary: R. W. Boswell

Borneo

- G Geological Survey Department
Borneo Region, Malaysia
Kuching, Sarawak
Malaysia
Director: J. B. Abjandin

British Solomon Islands

- G Department of Geological Surveys
P.O. Box G24
Honiara, Guadalcanal
Director: D. Green

Brunei

- G The Government Geologist
Brunei Town
- C Survey Department of Brunei
Bandar Seri Degawan

Burma

- G Directorate of Geological Survey and
Exploration
Ministry of Mines
Kanbe Road, Yankin P.O.
Rangoon
Director General: U Sein Myint
- C, H Union of Burma Applied Research
Institute
Kanbe Road, Yankin P.O.
Rangoon
Director General: Freddy ba Hli
- C Directorate of Survey
Ministry of Agriculture and Forestry
Kaba-Aye Road
Rangoon

EAST ASIA-PACIFIC REGION—Continued

Peoples Republic of China

- G, H Institute of Geology
Department of Earth Sciences
Chinese Academy of Sciences
Peking
Chairman: Hou Te-Feng
- G Institute of Geology and Paleontology
Department of Earth Sciences
Chinese Academy of Sciences
Nanking
Director: Chao Chin-ko
- G Institute of Geophysics
Department of Earth Sciences
Chinese Academy of Sciences
Peking
Director: Chao Chin-Chang
- G Academy of Geology
Ministry of Geology
Peking
Director: Hsu Chieh
- C Institute of Geography
Department of Geography and Geology
Chinese Academy of Sciences
Peking
Chairman: Yin Chan-Hsun
- C National Bureau of Geodesy and
Cartography
Ministry of Geology
Peking
Director: Ch'en Wai-ou
- R Ministry of Coal Industry
Peking
- R Ministry of Petroleum Industry
Peking

Republic of China (Taiwan)

- G, C Geological Survey of Taiwan
P.O. Box 1001
Taichung 400
Taipei
Director: Ching-Chang Biq
- G Chinese Earthquake Research Center
Academia Sinica
P.O. Box 58937
Taipei
Director: Yi-Ben Tsai

EAST ASIA-PACIFIC REGION—Continued**Republic of China (Taiwan)—Continued**

- G Institute of Oceanography
National Taiwan University
Taipei
Director: T. Y. Chu
- C Ministry of the Interior
Roosevelt Road
Taipei
- H Water Resources Planning Commission
Ministry of Economic Affairs
Taipei
Chairman: Fung Chung-Yue
- G Chinese Petroleum Corporation
83 Chungwa Road
Taipei
President: Jerome S. N. Hu

Fiji

- G Geological Survey Department
P.O. Box 2020, Mead Road
Government Buildings
Suva
Director: J. C. Grover
- C Department of Lands, Mines and
Surveys
Director of Lands
Government of Fiji
Suva
Director: R. H. Ragnault

Hong Kong

- G Mines Department, Branch Office
Canton Road Government Offices
Canton Road
Kowloon, Hong Kong
Head: J. H. Knapp

Indonesia

- G Direktorat Geologi
[Geological Survey of Indonesia]
Djalan Diponegoro 57
Bandung
Director: Salman Padmanagara

EAST ASIA-PACIFIC REGION—Continued**Indonesia—Continued**

- G Direktorat Meteorologi dan Geofisik
Djalan Geredja Inggris 3
Djakarta
Director: M. Sukanto
- C Balai Fotogrametri
[Institute of Photogrammetry]
Ministry of Defense
Djalan Gunung Sahar 90
Djakarta
Head: R. E. Beaupain
- C Directorate of Land Use
Djakarta
- C Army Topographic Service
Djakarta
- C Markas Besar Angkatan Dorat
Direktorat Topografi
Gunung Sahari No. 90
Djakarta
- H Department of Public Works
Djakarta
Secretary General: T. N. I. Dandi
Kadargan
- R Ministry for Mining and Oil and Gas
Affairs
Menteng Raya No. 3
Djakarta
Minister: Soemantri Bradjonegoro

Japan

- G Nippon Kazan Gakkai
[Volcanological Society of Japan]
Earthquake Research Institute
University of Tokyo
I Yayoi-cho
Bunkyo-ku
Tokyo
President: T. Ishikawa
- G Earthquake Research Institute
University of Tokyo
10-302, 4-1 Sakurajosui
Setagaya-Ky, Tokyo
Director: T. Rikitake

EAST ASIA-PACIFIC REGION—Continued**Japan—Continued**

- G Public Works Research Institute
Ministry of Construction (includes
engineering geology)
2-28-32 Honkomagome Bunkyo-ku
Tokyo
Director: Mitsuru Nagao
- G, H Geological Survey of Japan, MITI
135 Hisamoto-cho
Kawasaki-shi, Kanagawa
Director: Isamu Kobayashi
- C Geographical Survey Institute
Ministry of Construction
24-13, 3-Chome
Higashiyama, Meguro-Ku
Tokyo
Director: Saburo Nanbu
- H Water Resources Bureau
Economic Planning Agency
Tokyo
- R Mineral, Oil, and Coal Mining Bureau
Ministry of International Trade and
Industry
1-3 Kasumigaseki, Chiyoda-ku
Tokyo 100
Director General: Kiyoshi Sho

Khmer Republic (Cambodia)

- G Mines and Mineral Prospecting
Ministry of Industry
Phnom Penh
Commissioner: Sean Pengse
- C Service Géographique du Cambodge
Phnom Penh

Korea, Democratic Peoples Republic (North)

- G Geology and Geography Research
Institute
Academy of Sciences
Mammoon-dong
Central District
P'yongyang
Director: Pak Sung Wook

EAST ASIA-PACIFIC REGION—Continued**Korea, Republic of (South)**

- G Geological and Mineral Institute of
Korea
219-3, Karibong-Dong, Yongdungpo-Ku
Seoul
Director General: Joung Hwan Lee
- C National Construction Research
Institute
Ministry of Construction
43-1 Hwikyeong-dong
Dongdaemun-ku, Seoul
Director: Yoon Sang Ock
- H Bureau of Water Resources
Development
Ministry of Construction
Seoul

Laos

- G Service Central des Mines du Laos
Ministère du Plan et de la Cooperation
B.P. 46
Vientiane
- C Service Géographique Nationale
Ministère des Travaux Publics et de
Transports
B.P. 167
Vientiane
Director: Ms. Voravong

Malaysia

- G Federal Geological Survey
Jalan Gurney
Kuala Lumpur 15-01
Director: S. K. Chung
- C Directorate of National Mapping
Jalan Gurney
Kuala Lumpur
- R The Ministry of Lands and Mines
Jalan Gurney
Kuala Lumpur
Minister: Enche Abdul Ghafar Bin Bada

EAST ASIA-PACIFIC REGION—Continued**Mongolian People's Republic**

- G Institute of Geology
Academy of Sciences
UI, Leniadom 2
Ulaanbaatar
Director: B. Luvsandandzan
- G, C Institute of Geography and Permafrost
Studies
Academy of Sciences
Ulaanbaatar
Director: S. H. Tsegmed
- G, H Institute of Hydrology and Meteorology
Academy of Sciences
Ulaanbaatar
Director: T. Myagmarjav

New Caledonia

- G Service des Mines et de la Géologie
Rte. No. 1
B.P. 465
Nouméa
- C Service Topographique
Territorial Administration Center
Avenue Paul Doumer
Nouméa Nouvelle

New Guinea

- G Geological Survey
Department of Lands, Surveys, and
Mines
Konedobu, Papua
Chief Government Geologist: S. Renwick

New Hebrides

- G Geological Survey
British Residency
Port Vila

New Zealand

- G Geophysics Division
Department of Scientific and Industrial
Research
P.O. Box 368
Lower Hutt, Wellington 1
Director: T. Hatherton

EAST ASIA-PACIFIC REGION—Continued**New Zealand—Continued**

- G New Zealand Geological Survey
Department of Scientific and Industrial
Research
P.O. Box 368
Lower Hutt, Wellington
Director: R. P. Suggate
- C Department of Lands and Surveys
P.O. Box 8003
Government Buildings
Wellington
Director: W. S. Boyes
- H Ministry of Works
P.O. Box 12041
Wellington
- R New Zealand Mines Department
Oil and Gas Exploration
Anvil House, Wakefield Street
P.O. Box 6342
Te Aro, Wellington
Chief Inspector: L. S. Jones

Philippines

- G Commission on Vulcanology
University of the Philippines
Diliman, Rizal
Chairman: Emmanuel Tamesis
- G Bureau of Mines
P.O. Box 1595
Herran Street
Manila
Director: Juanito Fernandez
- C Coast and Geodetic Survey
University of the Philippines
Diliman, Rizal
Director: Cayeto Palma
- C Board of Technical Surveys and Maps
234 Tanduary
Manila
- H Hydrology Division
Department of Public Works
Manila

Singapore

- C Survey Department
Ministry of Law
Singapore

EAST ASIA-PACIFIC REGION—Continued**Singapore—Continued**

H Public Utilities Board
Chief Engineers Office
Singapore

Thailand

G, R Department of Mineral Resources
Ministry of National Development
Rama VI Road
Bangkok
Director General: Saman Buravas

C Thai Survey Department
Armed Forces Supreme Command
Bangkok
Deputy Director of Survey: Chumphon
Kulkasem

H Mekong Committee
c/o ECAFE
Bangkok

Democratic Republic of Vietnam (North)

G Geologic Section
State Committee of Sciences
Hanoi

EAST ASIA-PACIFIC REGION—Continued**Democratic Republic of Vietnam (North)
—Continued**

State Committee of Sciences
Hanoi

G Station of Oceanography

Republic of Vietnam (South)

G Institute of Oceanography
Nha-Trang
Director: Tran Ngoc Loi

G Bureau of Natural Resources
Ministry of Economy
59 Gia Long
Saigon
Director: Pham Viet Bang

C Service Géographique Nationale
Ministère de la Défense Nationale
Commandement et Direction du Genie
Dalat
Director: Doan Van Kieu

H National Water Supply Agency
94 Công Ly
Saigon

Western Samoa

C Lands and Survey Department
Apia