

APPENDIX I

DATABASE

SUMMARY OF U.S. INTERNATIONAL S&T AGREEMENTS BY COUNTRY

Explanation of Databases

The information in the following databases is intended to provide an overview of international cooperative activities in science and technology between United States Government agencies and their counterparts in other countries. Appendices I and II were assembled from information both on file in the Department of State and provided it by other Federal departments and agencies. It is as complete as this information permits.

In some cases, agreements have technically expired, but are included herein if renewal is pending or if activities under the agreements continue. Agreements that have been active at any time within the last reporting cycle are included as well.

For the most part, the items listed in the databases are at the Memorandum of Understanding (MOU) level or higher. However, information on some additional activities is included if their significance warrants. (In some countries there may be other activities outside of agreements described here but included in the country narratives.)

"Country" designates the cooperating foreign nation. "Multilateral" and "Regional" are designations assigned to activities conducted with more than one country.

"Entry Into Force" (EIF) and "Termination Date" (Term Date) indicate start and end times of agreements. Agreements renewed with no significant alterations usually retain the original EIF date. Agreements with no termination date have an indefinite term; some may have a self-renewing understanding that perpetuates the agreement unless one or more parties wish to end it.

ARGENTINA

COUNTRY: Argentina
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 09/24/84 TERM DATE:
REMARKS: Termination date: Indefinite. Direct reception and
distribution of Landsat data at Landsat ground station; extends
through life of Landsat-4 and Landsat-5. No U.S.
funding.

COUNTRY: Argentina
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 12/29/87 TERM DATE: 12/29/92
REMARKS: Establish facilities to be incorporated into Global
Seismograph Network. Funding not specified.

COUNTRY: Argentina
AGENCY: NASA
SUBJECT: Space
EIF DATE: 08/06/91 TERM DATE: 08/06/97
REMARKS: MOU concerning the SAC-B astrophysics engineering
demonstration mission. Joint NASA Secyt
funding.

COUNTRY: Argentina
AGENCY: NASA
SUBJECT: Space
EIF DATE: 08/06/91 TERM DATE: 08/06/96
REMARKS: MOU regarding cooperative projects in the civil uses of
space research. Funding not specified.

COUNTRY: Argentina
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 11/30/90 TERM DATE: 11/30/95
REMARKS: MOU with CNEA for technical information exchange
directly applicable to the safety of operating civil power and
research reactors. Funding not specified.

AUSTRALIA

COUNTRY: Australia
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 03/13/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

COUNTRY: Australia
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 03/14/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination
date. Demonstration of two allied communication networks
interoperating on an automatic cooperative basis; and the
demonstration of allied computer networks working in a
cooperative way to perform distributed command and control
functions. Funding not specified.

COUNTRY: Australia
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 04/11/88 TERM DATE: 04/11/98
REMARKS: Establishing wider cooperation in the areas of R&D.
DOE Record No. 239. Funding not specified.

COUNTRY: Australia
AGENCY: DOI (MMS)
SUBJECT: Natural Resources
EIF DATE: 11/07/91 TERM DATE: 11/07/96
REMARKS: This MOU is a framework for the exchange of information
and visits on offshore oil, gas, and mineral activities. This
agreement might be augmented by annexes dealing with specific
cooperative research activities later. Funding not
specified.

COUNTRY: Australia
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 05/01/83 TERM DATE:
REMARKS: Continuing agreement. Cooperative mineral resources
assessments, geochemistry; monitoring of soil moisture;

international strategic minerals inventory. Funding: USGS
\$72,600; GOA \$19,600.

COUNTRY: Australia
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/83 TERM DATE: 01/01/92
REMARKS: Fieldwork on impact structures in S. Australia, N.
Territory, NSW, and W. Australia. NASA funded: \$41,300.

COUNTRY: Australia
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 08/01/76 TERM DATE:
REMARKS: Termination date: Indefinite. NIH National Library of
Medicine MEDLARS Agreement with the National Library of
Australia. Quid pro quo interlibrary exchange. Funding not
specified.

COUNTRY: Australia
AGENCY: NASA
SUBJECT: Space
EIF DATE: 09/01/87 TERM DATE: 09/01/97
REMARKS: Funding is NASA programmatic. Sounding rocket
agreement.

COUNTRY: Australia
AGENCY: NASA
SUBJECT: Atmospheric Science
EIF DATE: 07/24/85 TERM DATE: 07/24/90
REMARKS: Funding is NASA programmatic. Long-duration balloon
flight program. Flights originate in Australia. A new combined,
long duration/short duration agreement is under discussion and
imminent.

COUNTRY: Australia
AGENCY: NASA
SUBJECT: Space
EIF DATE: 01/01/64 TERM DATE: 05/02/2000
REMARKS: NASA tracking stations in Australia. Funding not
specified.

COUNTRY: Australia
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 10/01/68 TERM DATE: 11/01/90
REMARKS: Currently under renegotiation by the Department of
State. Funding not specified.

COUNTRY: Australia
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 02/22/82 TERM DATE:
REMARKS: Automatic renewal every 5 years. Agricultural R&D;
soil and water conservation, industrial utilization. Activities
continue on ad hoc basis. Funding not
specified.

COUNTRY: Australia
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 10/16/68 TERM DATE: 04/16/91
REMARKS: Currently under renegotiation to include provisions for
protection and allocation of intellectual property
rights.

AUSTRIA

COUNTRY: Austria
AGENCY: HHS
SUBJECT: Nuclear Safety
EIF DATE: 11/27/89 TERM DATE: 11/27/94
REMARKS: Source Term Research and Application with OEFZS.
Funding not specified.

COUNTRY: Austria
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 04/14/87 TERM DATE: 04/14/92
REMARKS: Agreement between NIH and Austrian Science Foundation
for the support of biomedical scientist exchanges. Funding not
specified.

COUNTRY: Austria
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 11/27/89 TERM DATE: 11/27/94
REMARKS: Source Term Research and Application with OEFZS.
Funding not specified.

COUNTRY: Austria
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 02/28/89 TERM DATE: 02/27/94
REMARKS: Joint research; joint S&T education projects; visits;
exchange of personnel and information; meeting, seminar, and
workshop support. Previous agreement: 1984-1989. Funding not
specified.

BANGLADESH

COUNTRY: Bangladesh

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 05/01/82

TERM DATE: 01/01/91

REMARKS: Modernization of Geological Survey and training of staff. Funded by Asian Development Bank at \$20,000 in FY91.

BELGIUM

COUNTRY: Belgium
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 01/19/81 TERM DATE: 01/19/94
REMARKS: Establish an exchange of technology in the field of radioactive waste management. Includes terminal storage in geological formations; technology of retrievable storage; waste processing technology; and environmental effects. DOE Record No. 87. Funding not specified.

COUNTRY: Belgium
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 02/01/83 TERM DATE:
REMARKS: Termination date: Indefinite. Severe accident research with BNL and CEN/SCK. Funding not specified.

COUNTRY: Belgium
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/06/78 TERM DATE: 05/02/93
REMARKS: Information exchange and general technical cooperation with Belgian Government. Funding not specified.

COUNTRY: Belgium
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 06/02/85 TERM DATE: 06/01/90
REMARKS: Activities include scientific exchanges and fellowships, joint seminars and workshops, joint research, and staff exchanges. Ongoing, although agreement expired. Funding not specified.

BOLIVIA

COUNTRY: Bolivia
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 08/17/84 TERM DATE: 08/12/94
REMARKS: Establish facilities to be incorporated into Global
Seismograph Network. Funding not specified.

COUNTRY: Bolivia
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 12/08/89 TERM DATE: 12/08/91
REMARKS: Geologic and mineral resources assessment project.
Funded by Trade and Development Program:
\$540,000.

BOTSWANA

COUNTRY: Botswana

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 08/13/86

TERM DATE: 08/12/94

REMARKS: Establish facilities to be incorporated into Global
Seismograph Network. Funding not specified.

BRAZIL

COUNTRY: Brazil
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 05/05/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

COUNTRY: Brazil
AGENCY: DOD
SUBJECT: Space Research
EIF DATE: 08/02/90 TERM DATE: 05/01/95
REMARKS: Agreement between the Defense Mapping Agency and the Brazilian Geographic and Statistics Institute (IBGE) for operation of a satellite station to collect geodetic and geophysical data. Funding not specified.

COUNTRY: Brazil
AGENCY: DOD
SUBJECT: Space Research.
EIF DATE: 06/13/84 TERM DATE: 06/13/94
REMARKS: MOU between USAF and the Brazilian Ministry of Aeronautics' Center for Aerospace Technology for exchange of data and scientists. Funding not specified.

COUNTRY: Brazil
AGENCY: DOD (DMA)
SUBJECT: Space
EIF DATE: 08/02/90 TERM DATE: 08/02/00
REMARKS: Agreement between the Defense Mapping Agency and the Brazilian Geographic and Statistics Institute (IBGE) for operation of a satellite station to collect geodetic and geophysical data.

COUNTRY: Brazil
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 05/05/86 TERM DATE: 05/05/96
REMARKS: Establish and operate facilities to be incorporated into Global Seismograph Network. Funding not specified.

COUNTRY: Brazil
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 03/29/84 TERM DATE: 10/16/90
REMARKS: On-going agreement. Areas for cooperation: civil aviation, urban mass transit, vehicle fuel conservation and alternative fuel technology; and highway research and development. Funding not specified.

COUNTRY: Brazil
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 11/16/90 TERM DATE: 11/16/95
REMARKS: MOU between EPA and the Brazilian Secretariat of Environment and Institute of Environment and Renewable Resources, authorizing cooperation activities concerning pollution studies and environmental protection. Funding not specified.

COUNTRY: Brazil
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/77 TERM DATE:
REMARKS: Termination date: Indefinite. NIH/National Library of Medicine MEDLARS Agreement with Centro Latino-Americano de Informacao em Ciencias de Saude (BIREME); quid pro quo interlibrary exchanges. Funding not specified.

COUNTRY: Brazil
AGENCY: NASA
SUBJECT: Atmospheric Science
EIF DATE: 11/21/90 TERM DATE: 11/21/97
REMARKS: MOU between NASA and COBAE (Comissao Brasileira de Atividades Espaciais) concerning balloon cooperation to study ozone. Funding not specified.

COUNTRY: Brazil
AGENCY: NASA
SUBJECT: Space
EIF DATE: 09/01/89 TERM DATE:
REMARKS: Global Tropospheric Experiment. Agreement will terminate one year after completion of the final GTE/CITE-3 mission. Funding not specified.

COUNTRY: Brazil
AGENCY: NASA
SUBJECT: Space
EIF DATE: 06/08/90 TERM DATE: 06/08/95
REMARKS: On-going. Cooperative atmospheric research program using small sounding rockets. Funding not specified.

COUNTRY: Brazil
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 05/20/76 TERM DATE: 05/18/94
REMARKS: Information exchange and general technical cooperation with CNEN. Funding not specified.

COUNTRY: Brazil
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 03/06/84 TERM DATE: 05/01/91
REMARKS: S&T initiative signed by Presidents Sarney and Reagan; NSF has a lead role in basic sciences and engineering, and approx \$600,000 has been designated for NSF, \$300,000 for basic sciences; the rest for engineering.

COUNTRY: Brazil
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 04/13/84 TERM DATE: 05/01/91
REMARKS: Projects under S&T umbrella agreement: information and personnel exchanges; joint research; seminars, workshops, and meetings. Funding not specified.

COUNTRY: Brazil
AGENCY: USDA
SUBJECT: Natural Resources
EIF DATE: 08/07/91 TERM DATE: 08/07/96
REMARKS: Framework agreement with Brazilian Institute for Environment and Renewable Natural Resources (IBAMA) for information exchange and joint projects which can include other agencies. Funding not specified.

COUNTRY: Brazil
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 12/01/71 TERM DATE: 11/15/91
REMARKS: Renegotiation of extension underway. The agreement was funded by Presidential S&T Initiative, \$2 million from U.S. and \$2 million from Brazil; Dept. of State is executive agent. Additional funding not specified. Projects include engineering, agriculture, basic science energy, environment.

BULGARIA

COUNTRY: Bulgaria
AGENCY: DOI (USGS)
SUBJECT: Basic Sciences
EIF DATE: 02/09/78 TERM DATE: 02/09/93
REMARKS: Joint research, seminars and workshops, and short term project development visits. Funding not specified.

COUNTRY: Bulgaria
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 05/18/90 TERM DATE: 05/18/93
REMARKS: Original agreement (11/04/86) was renewed in 1990 for 3 years. Agreement between NIH and Bulgarian Medical Academy for support of biomedical scientist exchanges under the umbrella US-Bulgaria Exchanges Agreement. Funding not specified.

COUNTRY: Bulgaria
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 02/09/78 TERM DATE: 02/09/93
REMARKS: Joint research, seminars and workshops; and short term project development visits. Funding not specified.

COUNTRY: Bulgaria
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 10/22/90 TERM DATE: 10/21/95
REMARKS: A previous Joint Statement between the USDA and Bulgaria expired at the end of 1984. The only substantive changes in the proposed Joint Statement are Article IV on the protection of IPR and an annex covering this issue in detail. Funding not specified.

BURMA

COUNTRY: Burma

AGENCY: DOI (NPS)

SUBJECT: Natural Resources

EIF DATE: 09/30/87

TERM DATE:

REMARKS: Technical assistance in conservation, resource management, and protected areas management; funding of \$23,000. This project originally funded at \$60,000; because of problems in Burma, funds were returned to USAID/India. Funding now unsure. May expand to Pakistan, India.

CAMEROON

COUNTRY: Cameroon

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 11/09/88

TERM DATE: 11/09/93

REMARKS: No activity during FY91. Funding not specified.

CANADA

COUNTRY: Canada
AGENCY: DOC (CENSUS)
SUBJECT: Statistics
EIF DATE: 03/27/86 TERM DATE: 03/27/91
REMARKS: Ongoing. MOU recognizes long-standing informal cooperation and provides for its continuation, like exchange visits, and joint study and research. MOU agrees to monthly exchange of import data to replace bilateral export statistics with counterpart import statistics beginning January 1990. Funding not specified.

COUNTRY: Canada
AGENCY: DOC (CENSUS)
SUBJECT: Statistics
EIF DATE: 07/29/87 TERM DATE:
REMARKS: MOU agrees to monthly exchange of import data to replace bilateral export statistics with counterpart import statistics beginning January 1990. Funding not specified. On-going agreement. Funding not specified.

COUNTRY: Canada
AGENCY: DOC (NIST)
SUBJECT: Basic Sciences
EIF DATE: 09/20/88 TERM DATE: 09/20/93
REMARKS: Action is in support of NIST statutory mission to collect, evaluate, and publish standard reference scientific data. Agreement states NIST owns database and specifies royalties for use to be paid to NIST. Funding not specified.

COUNTRY: Canada
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 07/26/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

COUNTRY: Canada
AGENCY: DOC (NOAA)
SUBJECT: Atmospheric Science
EIF DATE: 06/28/85 TERM DATE: 09/27/95
REMARKS: MOU to improve climate cooperation and coordination:

current projects include development of programs to address climate change and impact on the Great Lakes region of North America and on the High Plains region of North America. Funding not specified.

COUNTRY: Canada
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 03/30/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. The APG-73 project will update three parts of APG-65 radar: Receiver-Exciter, Radar Data Processor, and Radar Signal Processor. Memory, throughput, and speed will all be improved, giving radar growth potential in ECCM capability. Australia and Germany expressed interest in some future date. Funded with Nunn Amendment.

COUNTRY: Canada
AGENCY: DOE
SUBJECT: Energy (Fusion)
EIF DATE: 11/19/87 TERM DATE: 11/19/92
REMARKS: Finding solutions to mutually agreed upon problems associated with the development of magnetic fusion as a source of energy. DOE Record No. 228. Funding not specified.

COUNTRY: Canada
AGENCY: DOE
SUBJECT: Energy (Fossil)
EIF DATE: 06/04/79 TERM DATE: 12/04/94
REMARKS: Establish a framework for cooperation with R&D activities in tar sands and heavy oil extraction processing and related technologies. DOE Record No. 46. Funding not specified.

COUNTRY: Canada
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 12/04/86 TERM DATE: 12/04/96
REMARKS: Establishing wider cooperation in the areas of R&D. DOE Record No. 194. Funding not specified.

COUNTRY: Canada
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 08/25/82 TERM DATE: 08/29/92
REMARKS: Study of topics associated with management of radioactive waste and related activities of nuclear cycle, i.e., preparation and packaging, decontamination and decommissioning; surface and subsurface storage, etc. DOE Record No. 107. Funding not specified.

COUNTRY: Canada
AGENCY: DOI (BLM)
SUBJECT: Natural Resources
EIF DATE: 01/01/61 TERM DATE:
REMARKS: On-going. North American Forestry Commission; Exchange information and advise the FAO Committee on Forestry concerning forest and wildfire management practices. Funding not specified.

COUNTRY: Canada
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 03/16/88 TERM DATE:
REMARKS: On-going. Tripartite (Mexico) cooperation on waterfowl and wetlands cooperation. Funding not specified.

COUNTRY: Canada
AGENCY: DOI (FWS)
SUBJECT: Nature Conservation
EIF DATE: 07/17/87 TERM DATE:
REMARKS: To conserve, through joint cooperation and coordination of users and management authorities the migrating Porcupine Caribou Herd. On-going. Funding not specified.

COUNTRY: Canada
AGENCY: DOI (MMS)
SUBJECT: Natural Resources
EIF DATE: 09/01/86 TERM DATE:
REMARKS: Termination date: Indefinite. The MOU is between DOI/MMS and the Department of the Environment of Canada, allowing for jointly sponsored research on oil spill prevention, cleanup, and countermeasures technologies. Funding not specified.

COUNTRY: Canada
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/09 TERM DATE:
REMARKS: Entry into Force: 1909, and continuing. Joint water-data acquisition activities stemming from Boundary Waters Treaty of 1909. Funded by IJC at about \$500,000 annually.

COUNTRY: Canada
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 04/02/81 TERM DATE: 04/01/91
REMARKS: Joint geological and mapping projects; international strategic minerals inventory. MOU in renewal process. Funding not specified.

COUNTRY: Canada
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 09/01/89 TERM DATE:
REMARKS: Entry into Force: 1989, and continuing. Joint studies of hydrologic impacts of climate change in Red River Basin, Canada. Canada funds their own participation. Funding: USGS \$90,000.

COUNTRY: Canada
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 06/18/70 TERM DATE:
REMARKS: Extremely active on-going agreement concerning all areas of transportation: civil aviation research and security, marine technology, urban transport, highway/traffic safety and R&D, highway research, systems for disabled, hazardous materials transport. Funding not specified.

COUNTRY: Canada
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 11/22/78 TERM DATE:
REMARKS: Termination date: Indefinite; last renewed in 1987, but is self-renewing after this date. US-Canadian Great Lakes Water Quality Agreement, providing for restoration and maintenance of chemical, physical, biological integrity of Great Lakes Basin ecosystem. As part of broad comprehensive goals, implements pollution control objectives of US-Canada Boundary Waters Treaty of '09. Funding not specified.

COUNTRY: Canada
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 03/13/91 TERM DATE:
REMARKS: Self-renewing unless one party gives 1 year's termination notice. President Bush signed this Agreement into force in 1991; emphasis is on acid rain. U.S.-Canada Agreement on Air Quality. Annex II - Science and Technology Activities and Economic Research. Funding not specified.

COUNTRY: Canada
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 10/17/85
TERM DATE: 10/17/90
REMARKS: EPA-Environment Canada MOU of accidental and unauthorized discharges of pollutants along inland boundary. Contains plans to deal with accidental releases of pollutants (Emergency Response Agreement), joint contingency plan for inland border areas of Great Lakes and non-maritime areas. Self-renewing agreement. Funding not specified.

COUNTRY: Canada
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 02/04/87
TERM DATE:
REMARKS: Declarations of intent on toxic pollution of Niagara River and Lake Ontario. EPA, Environment Canada, NY State Department of Environmental Conservation and Ontario Ministry of Environment entered into agreement; helps to achieve goals of Boundary Waters Treaty of '09. Funds not specified.

COUNTRY: Canada
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 10/17/85
TERM DATE: 10/17/90
REMARKS: MOU with Canada, providing framework for cooperation on S&T exchange. Includes pollution measurement and control, R&D of improved technologies, approaches and systems for pollution control. Very active and productive agreement. Although expired, agreement's activities continue while IPR annex under negotiation. Funding not specified.

COUNTRY: Canada
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 07/30/70
TERM DATE:
REMARKS: Termination date: Indefinite. NIH/National Library of Medicine. MEDLARS Agreement with Canada Institute for Scientific and Technical Information (CISTI); quid pro quo interlibrary exchange. Funding not specified.

COUNTRY: Canada
AGENCY: HHS
SUBJECT: Health Statistics
EIF DATE: 01/01/87
TERM DATE:
REMARKS: Termination date: Indefinite. Cooperation between the CDC National Center for Health Statistics and Vital Statistics Council for Canada; Statistics Canada Advisory Commission on health statistics. Funding not specified.

COUNTRY: Canada
AGENCY: NASA
SUBJECT: Space & Aeronautics
EIF DATE: 07/09/76
TERM DATE:
REMARKS: Ongoing. Cooperative participation in the development and procurement of a Space Shuttle Attached Remote Manipulator System. Funding not specified.

COUNTRY: Canada
AGENCY: NASA
SUBJECT: Space (Earth Obs)
EIF DATE: 02/27/91
TERM DATE: 02/27/96
REMARKS: Agreement between Canadian Space Agency and NASA/NOAA for NASA launch of Canadian Radarsat in exchange for Earth observations research data and U.S. private sector role in data distribution. Funding through respective governments.

COUNTRY: Canada
AGENCY: NASA
SUBJECT: Space & Aeronautics
EIF DATE: 09/29/88
TERM DATE:
REMARKS: Entering Phase X/D of Space Station Program; Detailed Design & Development; total funding for international partners in excess of \$7.0 billion, Canadian hardware accounting for over \$1 billion.

COUNTRY: Canada
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 02/10/84
TERM DATE: 10/15/91
REMARKS: Renewal under negotiation. Severe accident research with AECL. Funding not specified.

COUNTRY: Canada
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/21/89
TERM DATE: 06/21/94
REMARKS: Information exchange and general technical cooperation with AECB. Funding not specified.

COUNTRY: Canada
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 05/20/87
TERM DATE:
REMARKS: Renewal under negotiation. International piping integrity research. Cooperation will continue under IPIRG-2. Funding not specified.

CHILE

COUNTRY: Chile
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 09/16/87
REMARKS: USGS funding: \$27,800.
TERM DATE: 08/02/92

COUNTRY: Chile
AGENCY: NASA
SUBJECT: Space
EIF DATE: 08/02/85
REMARKS: Use of Easter Island airport as a Space Shuttle emergency landing site. Funding not specified.
TERM DATE: 08/02/93

COUNTRY: Chile
AGENCY: NSF
SUBJECT: Environment
EIF DATE: 11/13/90
REMARKS: Automatic renewal process every 3 years. MOU Framework for joint cooperation between NSF/DPP (Division of Polar Programs) and its counterpart, the Chilean Antarctic Institute. Chile provides vital role in logistics for Antarctic activities. Funding not specified.
TERM DATE: 11/13/93

CHINA

COUNTRY: China
AGENCY: DOC
SUBJECT: Industrial S&T
EIF DATE: 04/30/84 TERM DATE: 04/30/94
REMARKS: Management training, exchange of information, joint conferences. Severely cut back after 1989.

COUNTRY: China
AGENCY: DOC (CENSUS)
SUBJECT: Statistics
EIF DATE: 07/24/84 TERM DATE: 05/22/96
REMARKS: Low level activity consisting primarily of Chinese delegations to the U.S.; we taught one workshop in China in 1991. Funding not specified.

COUNTRY: China
AGENCY: DOC (NIST)
SUBJECT: S&T Information
EIF DATE: 04/30/84 TERM DATE: 04/30/94
REMARKS: Access, provision of S&T report literature. Funding not specified.

COUNTRY: China
AGENCY: DOC (NIST)
SUBJECT: Metrology
EIF DATE: 01/01/79 TERM DATE: 05/01/89
REMARKS: Active while in process of renewal. Joint studies are in metrology, standards (including engineering standards), and related applied sciences; temperature, electrical, optical, length, mass, and time measurements and standards. Funding not specified.

COUNTRY: China
AGENCY: DOC (NOAA)
SUBJECT: Atmospheric Science
EIF DATE: 05/08/79 TERM DATE: 05/08/94
REMARKS: Protocol on Cooperation in Atmospheric S&T; joint meteorologic studies; training, other participating agencies- NSF, NASA, USDA. Chinese- CAS, National Natural Science Foundation, Ministry of Education; State Meteorological Administration. Funding not specified.

COUNTRY: China
AGENCY: DOE
SUBJECT: Energy (Fossil)
EIF DATE: 04/16/85 TERM DATE: 04/30/96
REMARKS: Emphasis on atmospheric and pressurized fluid bed combustion; surface coal gasification; coal liquefaction and enhanced oil recovery. Other participating agencies- NASA, NOAA, NCAR. Funding not specified. DOE Record No. 157.

COUNTRY: China
AGENCY: DOE
SUBJECT: Energy (Physics)
EIF DATE: 06/11/83 TERM DATE: 04/30/96
REMARKS: Exchange of information and data; research and development; exchange of scientists. DOE Record No. 123. Funding not specified.

COUNTRY: China
AGENCY: DOE
SUBJECT: Energy (Physics)
EIF DATE: 01/31/79 TERM DATE: 04/30/96
REMARKS: High energy physics cooperation including theoretical and experimental research, accelerator design and construction techniques. DOE Record No. 38. Funding not specified.

COUNTRY: China
AGENCY: DOI (BOM)
SUBJECT: Mining & Metallurgy
EIF DATE: 08/01/91 TERM DATE: 08/01/96
REMARKS: Mining research and technology. Funding not specified.

COUNTRY: China
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 11/19/86 TERM DATE: 11/19/91
REMARKS: Exchange of scientists to work on activities relating to conservation of wildlife and their habitats. Funding not specified.

COUNTRY: China
AGENCY: DOI (NPS)
SUBJECT: Cultural Resources
EIF DATE: 01/31/79 TERM DATE:
REMARKS: Termination date: Indefinite. Designed to promote cooperation, research, and exchanges of information on cultural resources. Funding not specified.

COUNTRY: China
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 11/19/86 TERM DATE: 11/19/91
REMARKS: Protocol designed to promote cooperation and exchanges in the field of wildlife conservation and protected natural areas. Exchange of scientists to work on activities relating to conservation of wildlife and their habitats. Funding not specified.

COUNTRY: China
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 04/15/85 TERM DATE: 04/30/96
REMARKS: Survey and Mapping Protocol; joint projects in mapping applications of remote sensing; development of geographic information systems and geographic names databases in cooperation with DMA and NOAA. Funding: USGS \$27,000; PRC \$8,200.

COUNTRY: China
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 10/17/81 TERM DATE: 10/17/91
REMARKS: MOU in renewal process. Surface Water Hydrology Protocol; joint research in sediment transport, hydrologic extremes, hydrologic measurements; ice and snow hydrology. Funding: USGS \$125,000; PRC \$51,000.

COUNTRY: China
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/24/80 TERM DATE: 04/30/96
REMARKS: Earth Science Protocol; joint research on petroleum geology pyrophyllite; geochemical anomalies in Xinjiang and SW U.S.; genetic model of Bayan Obo iron niobium rare earth deposit; S. China and W. U.S. granitoid rocks. Funding: USGS \$20,000; PRC \$6,000.

COUNTRY: China
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/24/80 TERM DATE: 01/23/95
REMARKS: Earthquake studies protocol; studies on crustal structures in fault zones; premonitory phenomena; crustal stress measurements; seismic networks; rock mechanics; intraplate active fault studies. Funding: USGS \$35,000; PRC \$75,000.

COUNTRY: China
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 05/11/83 TERM DATE: 04/30/96
REMARKS: Protocol with Ministry of Communications (MOC) under the umbrella S&T agreement; urban systems; transport research planning; highway construction & safety; civil aviation technical assistance. Army Corps of Engineers participates. Funding not specified.

COUNTRY: China
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 12/15/86 TERM DATE: 12/15/91
REMARKS: Covers all areas of rail transportation, research, and operations. Administered by the Federal Railroad Administration. Funding not specified.

COUNTRY: China
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 01/31/79 TERM DATE: 05/24/96
REMARKS: U.S.-PRC Protocol on Environmental Cooperation, recently extended to co-terminate with S&T agreement, involves ongoing projects in the following areas: health effects, air pollution transport and transformation, soil and ground water pollution studies, water pollution fate and transport, aquatic effects, climate change research, methane emission control and recovery, and CFC reduction and substitutes. Funding not specified.

COUNTRY: China
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/22/79 TERM DATE: 06/21/93
REMARKS: Under Annex I, Health Protocol: Collaborative Cancer Research between NCI and Chinese Academy of Med. Sci. Funding not specified.

COUNTRY: China
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/89 TERM DATE: 01/01/93
REMARKS: MOU Agreement between CDC and the Chinese Academy of Preventive Medicine to establish a "sister institution" relationship. Funding not specified.

COUNTRY: China
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/28/83 TERM DATE: 06/28/92
REMARKS: Original agreement renewed in 1989. Agreement between National Institute of Neurological Disorders and Stroke, NIH, and the Shanghai Brain Research Institute, Academy of Sciences. Funding not specified.

COUNTRY: China
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/22/79 TERM DATE: 06/22/93
REMARKS: Cooperative Agreement under Health Protocol with Chinese Academy of Medical Sciences; cancer; cardiovascular diseases; infectious diseases; environmental health; human genetics; reproductive physiology; immunology; biomedical information science; food and drugs. Funding not specified.

COUNTRY: China
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 08/01/87 TERM DATE: 08/01/92
REMARKS: MOU Agreement between the National Eye Institute, NIH, and the Zhongshan Ophthalmic Center, Chinese Academic Medical Sciences: joint vision research projects, exchange scientist programs, cooperation in clinical trials. Funding not specified.

COUNTRY: China
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 03/14/91 TERM DATE: 03/14/98
REMARKS: Funding not specified.

COUNTRY: China
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 05/11/83 TERM DATE:
REMARKS: Cooperative programs in basic biomedical sciences; exchanges, research. Renewal is automatic every five years.

COUNTRY: China
AGENCY: HUD
SUBJECT: Housing, Urban Dev.
EIF DATE: 10/17/81 TERM DATE: 10/16/91
REMARKS: Building construction and urban planning. Funding not specified.

COUNTRY: China
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/17/81 TERM DATE: 10/17/91
REMARKS: Renewal under negotiation. Information exchange and general technical cooperation with NNSA; protocol. Renewal under negotiation. Funding not specified.

COUNTRY: China
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 12/10/80 TERM DATE: 12/09/90
REMARKS: Protocol under extended S&T umbrella agreement; basic and applied sciences and social sciences. Funding not specified. Renewal pending.

COUNTRY: China
AGENCY: NSF
SUBJECT: Earth Sciences
EIF DATE: 01/24/80 TERM DATE: 04/30/91
REMARKS: Ongoing Protocol under S&T umbrella agreement; joint program with USGS. Funding not specified.

COUNTRY: China
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 01/31/79 TERM DATE: 04/30/96
REMARKS: Attached as annex to U.S.-China S&T agreement (Umbrella). Renewed with the S&T agreement. Agricultural R&D under umbrella S&T agreement; exchange of germplasm like alfalfa, soybeans, pecans; disease resistance breeding in cotton, tomato, cabbage. Other participating agencies-Chinese Ministries of Forestry, Commerce, Water Conservancy. Funding not specified.

COUNTRY: China
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 01/31/79 TERM DATE: 04/30/90
REMARKS: Original umbrella agreement left IPR considerations to the individual MOU's under the umbrella. Extended with IPR and security obligation provisions. Funding not specified.

COLOMBIA

COUNTRY: Colombia

AGENCY: HHS

SUBJECT: Biomedical Sciences

EIF DATE: 03/12/81

TERM DATE:

REMARKS: Termination date: Indefinite. National Library of
Medicine MEDLARS Agreement with the Pan American Federation of
Associations of Medical Schools; quid pro quo interlibrary
exchanges. Funding not specified.

COTE D'IVOIRE

COUNTRY: Cote D'Ivoire
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 03/21/86 TERM DATE:
REMARKS: On-going. Establishes a station for the reference
network. Funding not specified.

COUNTRY: Cote D'Ivoire
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 02/01/86 TERM DATE: 01/31/94
REMARKS: Establish facilities to be incorporated into Global
Seismograph Network. Funding not specified.

COUNTRY: Cote D'Ivoire
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 05/01/87 TERM DATE:
REMARKS: Termination date: Indefinite. Centers for Disease
Control and Ministry of Health collaboration in HIV-1 and HIV-2
epidemiology, laboratory surveillance and research. Funding not
specified.

CZECHOSLOVAKIA

COUNTRY: Czechoslovakia
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/14/89 TERM DATE: 04/14/94
REMARKS: Information exchange and general technical cooperation
with AEC. Funding not specified.

COUNTRY: Czechoslovakia
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 06/27/88 TERM DATE: 01/10/92
REMARKS: Ongoing. Cooperative research projects, joint seminars
and workshops. Funding not specified.

COUNTRY: Czechoslovakia
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 10/22/91 TERM DATE:
REMARKS: Under 5 year renewal. Agreement established Joint
Commission and Joint Fund with contributions from both sides.
Details of funding not specified.

DENMARK

COUNTRY: Denmark (Faroes)

AGENCY: DOC (NOAA)

SUBJECT: Fisheries

EIF DATE: 01/18/80

TERM DATE: 07/01/91

REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

EGYPT

COUNTRY: Egypt
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 08/10/87 TERM DATE: 10/01/92
REMARKS: Training and research; technical assistance in natural areas management. This is one of three Special Foreign Currency programs run by the FWS (India, Pakistan) in which excess foreign currency is held by the FWS for use in conservation programs. Funding not specified.

COUNTRY: Egypt
AGENCY: HHS
SUBJECT: Health Sciences
EIF DATE: 10/15/75 TERM DATE: 05/01/94
REMARKS: Ongoing US-Egypt agreement on health cooperation to develop projects on environmental health, respiratory infections, eye diseases, congenital anomalies, lymphoma/leukemia research, biomedical instrumentation, drugs, biologics, health statistics. FDA has three projects funded by USAID. Other funding not specified.

COUNTRY: Egypt
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/82 TERM DATE: 06/30/93
REMARKS: AID-funded NIH program under the Congressionally mandated Middle East Regional Cooperative Program established following the Camp David Accord; epidemiological and immunologic studies on vector-borne diseases. Funding not specified.

COUNTRY: Egypt
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/08/81 TERM DATE:
REMARKS: Renewal under negotiation. Information exchange and general technical cooperation with AEA; extension being renegotiated. Funding not specified.

COUNTRY: Egypt
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 11/09/86 TERM DATE: 11/09/91
REMARKS: Agreement relating to cooperation in the areas of science & technology. Funding not specified.

EUROPEAN COMMUNITY

COUNTRY: European Community
AGENCY: DOC (NOAA)
SUBJECT: Fisheries
EIF DATE: 06/09/77 TERM DATE: 07/31/91
REMARKS: Extension of agreement proposed. Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

COUNTRY: European Community
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 07/07/86 TERM DATE: 07/06/91
REMARKS: Renewal pending IPR renegotiations. Primarily information exchange. MOU between DOE and European Atomic Energy Community. R&D cooperation of aspects of radiation protection in areas such as: source and dose determination; environmental processes and effects; somatic health effects; and genetic health effects. DOE Record No. 185. Funding not specified.

COUNTRY: European Community
AGENCY: DOE
SUBJECT: Energy (Fusion)
EIF DATE: 12/15/86 TERM DATE: 12/15/96
REMARKS: Maintain and intensify cooperation between EURATOM and DOE in areas covered by respective magnetic fusion programs to develop scientific understanding and technology underlying a magnetic fusion power system. DOE Record No. 195. Funding not specified.

COUNTRY: European Community
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 10/06/82 TERM DATE: 10/06/92
REMARKS: Renewable every 5 years; last time in 1987. Exchange of information on the management of radioactive waste, i.e., characterization of waste forms and disposal in geologic formations between DOE and the European Atomic Energy Community. DOE Record No. 110. Funding not specified.

COUNTRY: European Community
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 01/28/82 TERM DATE: 06/30/91
REMARKS: Information exchange and joint nuclear material
safeguards R&D between DOE and the European Atomic Energy
Community. Being renegotiated for IPR. DOE Record No. 97.
Funding not specified.

COUNTRY: European Community
AGENCY: DOI (BOM)
SUBJECT: Natural Resources
EIF DATE: 01/16/84 TERM DATE: 01/15/89
REMARKS: Renewal under negotiation. Information sharing MOU in
the field of mineral technology. Funding not
specified.

COUNTRY: European Community
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/20/84 TERM DATE: 09/19/89
REMARKS: Renewal under negotiation. General safety research
agreement. Funding not specified.

COUNTRY: European Community
AGENCY: USDA
SUBJECT: Remote Sensing
EIF DATE: TERM DATE:
REMARKS: Remote sensing applications to agriculture and
forestry. Unsigned, under negotiations. Funding not
specified.

COUNTRY: European Community
AGENCY: US Gov
SUBJECT: Environment
EIF DATE: 06/04/74 TERM DATE:
REMARKS: On-going. Letters establishing the framework for
cooperative environmental activity. Initial areas of interest
include exchange of information on methods of analysis and
measurement of certain air and water pollutants. Funding not
specified.

FINLAND

COUNTRY: Finland
AGENCY: DOC (NTIS)
SUBJECT: S&T Information
EIF DATE: 10/01/90 TERM DATE: 12/01/92
REMARKS: Information exchange. Funding not specified.

COUNTRY: Finland
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 11/06/80 TERM DATE: 11/06/95
REMARKS: Cooperation in renewable and conservation technologies, including biomass, district heating, and conservation of energy in buildings. DOE Record No. 86. Funding not specified.

COUNTRY: Finland
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 10/25/89 TERM DATE: 10/25/94
REMARKS: Scientific and technical cooperation. Study of metalliferous black shales. Funding: USGS \$2,400.

COUNTRY: Finland
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 07/23/81 TERM DATE:
REMARKS: Ongoing agreement. Icebreaking technology, specifically winter navigation and design process and criteria. Funding not specified.

COUNTRY: Finland
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 01/22/91 TERM DATE:
REMARKS: Ongoing Agreement establishes cooperative research on pavements in cold weather climate, to include pavement materials, instrumentation, and design models. Funding not specified.

COUNTRY: Finland
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 10/29/82 TERM DATE:
REMARKS: Termination date: Indefinite. MOU between PHS/CDC and the Ministry of Social Affairs and Health of Finland on occupational safety and health, food and drugs, alcohol abuse, and health services, vaccine development, biomedical research and exchange of information. Funding not specific.

COUNTRY: Finland
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/26/89 TERM DATE: 04/26/93
REMARKS: Participation in Severe Accident Research Program with STUK and VTT. Funding not specified.

COUNTRY: Finland
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/26/80 TERM DATE: 07/09/95
REMARKS: Information exchange and general technical cooperation with STUK. Funding not specified.

COUNTRY: Finland
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 04/07/86 TERM DATE: 04/07/91
REMARKS: Renewal of MOU under discussion. Projects under the umbrella S&T agreement; prior MOU existed from 8/80-8/85; visits; personnel & staff exchanges; fellowships; joint research, seminars, and workshops. Funding not specified.

COUNTRY: Finland
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 09/15/85 TERM DATE: 09/15/90
REMARKS: Agreement on coop in S&T; agreement contains an Intellectual Property Annex for protection of copyrights, patents, other intellectual property; individual cooperating agencies negotiate funding with counterpart agencies.

FRANCE

COUNTRY: France
AGENCY: DOC
SUBJECT: Tech Commercialization
EIF DATE: 02/25/86 TERM DATE: 02/25/91
REMARKS: Through Technology Administration. Modeled after Israel BIRD and India PACT agreements. Progressing satisfactorily 27 joint ventures to date. Funding not specified.

COUNTRY: France
AGENCY: DOC (NIST)
SUBJECT: Engineering
EIF DATE: 12/31/86 TERM DATE: 12/31/91
REMARKS: This is the fourth five-year joint program of research in building technology under an understanding signed in 1969 by the Science Advisor to the President. Cooperation in building technology; joint research and exchanges. Funding not specified.

COUNTRY: France
AGENCY: DOC (NOAA)
SUBJECT: Marine Science
EIF DATE: 11/01/69 TERM DATE:
REMARKS: U.S.-France Cooperation in Oceanography: joint multidisciplinary oceanographic research; information and data exchanges. Funding not specified.

COUNTRY: France
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 03/20/86 TERM DATE:
REMARKS: France provides onboard data collection system flown on NOAA polar-orbiting satellite; France also provides the data processing system for ARGOS. Funding not specified.

COUNTRY: France
AGENCY: DOC (NTIS)
SUBJECT: S&T Information
EIF DATE: 04/01/84 TERM DATE: 12/03/91
REMARKS: Information exchange. Funding not specified.

COUNTRY: France
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 09/28/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Laser Standoff Chemical Detector for NBC reconnaissance vehicles (ground/air) 3-5KM range, able to quickly map terrain, showing type, location and concentration of contaminant. France uses laser power and improves their vapor algorithm and the US emphasizes aerosol and surface algorithm development. Funded with Nunn Amendment.

COUNTRY: France
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 12/04/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Three-phased development effort to provide a non-acoustic expendable sonobuoy using a Nuclear Magnetic Resonance (NMR) Sensor. Funded with Nunn Amendment.

COUNTRY: France
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 12/04/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To develop, test and evaluate a Closed-Loop Degaussing system that will automatically monitor and reduce static magnetic signature through on-board magnetic field sensors, degaussing electrical controller hardware. and control algorithms/software. Estimated that development will be completed in six years. Laboratory model will be tested first; full-scale prototype system will be designed, installed and tested on a dedicated US Navy MCM vessel. Funded with Nunn Amendment.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Fossil)
EIF DATE: 02/16/88 TERM DATE: 02/16/91
REMARKS: Establish a balanced exchange of energy information on enhanced oil recovery techniques. DOE Record No. 239. Funding not specified.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 12/19/88 TERM DATE: 09/19/91
REMARKS: Agreement between DOE and the CEA of France to establish a program of scientific cooperation to engage ... and be specifically limited to the unclassified utilization of high

power lasers in laser-matter interaction physics, diagnostics, and associated technical developments. Circular 175 approval granted to renegotiate agreement - currently with DOE for go ahead. Funding not specified. DOE Record No. 254.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 06/20/86 TERM DATE: 05/31/92
REMARKS: Renewal pending IPR renegotiations. Exchange and sharing of nuclear criticality data. DOE Record No. 183.
Funding not specified.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 07/22/87 TERM DATE: 07/22/92
REMARKS: Exchange of information as to the existence and availability of energy-related literature. DOE Record No. 212.
Funding not specified.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 04/22/83 TERM DATE: 04/22/93
REMARKS: Cooperation on research, development, test and evaluation to improve physical protection of nuclear materials and facilities. DOE Record No. 122. Funding not specified.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 05/31/85 TERM DATE: 02/28/91
REMARKS: Although agreement has expired, it has been extended till 2/28/91 while a new agreement was sent to the French in April '91 for their consideration (with Circular 175 authorization). Being renegotiated for IPR. Cooperation on research, development, testing and evaluation of technology and procedures to improve national nuclear material accounting and control measures. DOE Record No. 160. Funding not specified.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 09/13/85 TERM DATE: 09/15/92
REMARKS: Establish a basis for cooperation in the field of remote systems technology, i.e., applications feasibility; remote work efficiency; optimization and refinement. DOE Record No. 165. Funding not specified.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 01/18/77 TERM DATE: 09/30/91
REMARKS: Agreement will not be renewed. Establish for mutual benefit a balanced exchange of LMFBR technology, i.e., safety to include experimental out-of-pile and in-pile research and theoretical analyses; and physics including nuclear data and calculation methods. DOE Record No. 26. Funding not specified.

COUNTRY: France
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 07/26/83 TERM DATE: 07/26/93
REMARKS: Cooperation in all phases of radioactive waste management. DOE Record No. 127. Funding not specified.

COUNTRY: France
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 07/23/88 TERM DATE: 07/23/91
REMARKS: MOU under renewal process. Joint studies in water resources research, radioactive waste, oceanographic research, geochemistry research, mineral deposits, and geophysics.
Funding: USGS \$16,600; NSF \$8,200.

COUNTRY: France
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 10/07/71 TERM DATE:
REMARKS: Ongoing. Program implemented with U.S., France, Germany, Italy, Japan, and the U.K. under the auspices of NATO CCMS. Funding: each side pools funds subject to availability.

COUNTRY: France
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 02/14/72 TERM DATE:
REMARKS: Exchanges on automated guideway transit assessment; project agreements include: automated guideway transit, marine traffic systems & pollution, drug/alcohol abuse countermeasures; tunneling technology, urban rail & traffic systems, waste & byproduct. Agreement ongoing. Funding not specified.

COUNTRY: France
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 06/02/69 TERM DATE:
REMARKS: On-going agreement. Funding not specified.

COUNTRY: France
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 12/20/74 TERM DATE:
REMARKS: Termination date: Indefinite. National Library of Medicine MEDLARS Agreement with the French Institute of Health and Medical Research; quid pro quo interlibrary exchanges. Funding not specified.

COUNTRY: France
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 10/26/84 TERM DATE: 10/26/89
REMARKS: Agreement being renewed. NIH and French Institute of Health and Medical Research-cancer, cardiovascular, pulmonary, immunology and infectious diseases, instrumentation, biomedical engineering and neuro-sciences, instrumentation; technical assessment, and AIDS. Funding not specified.

COUNTRY: France
AGENCY: NASA
SUBJECT: Space
EIF DATE: 03/23/87 TERM DATE:
REMARKS: MOU between NASA and the French Centre National d'Etudes Spatiales for Joint Development of TOPEX/POSEIDON ocean project. Termination will occur one year after data collection from spacecraft ceases, or extended by agreement. (The mission is not scheduled for launching before June 1992.) Funding: NASA Programmatic.

COUNTRY: France
AGENCY: NASA
SUBJECT: Space
EIF DATE: 09/01/84 TERM DATE: 09/01/94
REMARKS: Use of Polynesian Island (Hao) as a Space Shuttle emergency landing site in the event of a problem with an STS polar mission launched from Vandenberg AFB. Although still "in force" it is likely not to be used, as it was decided that flights would not take off from Vandenberg and, therefore, Hao would probably not be used. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 05/05/87 TERM DATE: 07/31/91
REMARKS: International piping integrity research with CEA. To last for the duration of IPRG Program. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/15/84 TERM DATE:
REMARKS: Termination date: open-ended, to be ended by mutual agreement. Provides for classified safety information exchange with the MIAT. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 12/31/86 TERM DATE: 12/31/91
REMARKS: Light water reactor safety research umbrella agreement with CEA. Renewal under negotiation. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/01/90 TERM DATE: 09/30/95
REMARKS: Agreement between NRC and CEA relating to NRC participation in the Phebus Fission Product Program. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/01/90 TERM DATE: 10/01/93
REMARKS: Safety research agreement. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 07/25/88 TERM DATE: 07/24/94
REMARKS: Assessment of Long Term Cable Aging Degradation with CEA. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 08/20/85 TERM DATE: 08/20/92
REMARKS: Study of Seismically Induced Strong Ground Motion at
Shallow Soil Sites. Funding not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/16/86 TERM DATE: 09/16/91
REMARKS: Under renegotiation. Thermal hydraulic research with
CEA. Cooperation evolving into a new program, CAMP. Funding
not specified.

COUNTRY: France
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/28/74 TERM DATE: 09/04/95
REMARKS: Information exchange and general technical cooperation
with MIAT. Funding not specified.

COUNTRY: France
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 01/01/70 TERM DATE: 05/02/88
REMARKS: MOU for joint research and workshops. Continuing even
though officially held up by IPR language. Funding not
specified.

COUNTRY: France
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 03/15/82 TERM DATE: 03/15/92
REMARKS: Agricultural S&T; forestry, comparison of remote
sensing data for agricultural use, plant science, bioprocessing,
economics, etc. Funding not specified.

THE GAMBIA

COUNTRY: Gambia (The)

AGENCY: NASA

SUBJECT: Space

EIF DATE: 03/01/88

TERM DATE: 03/01/98

REMARKS: Use of Gambian air field as a Space Shuttle emergency landing site. Funding not specified.

GERMANY

COUNTRY: Germany
AGENCY: DOC (NTIS)
SUBJECT: S&T Information
EIF DATE: 01/01/90 TERM DATE: 06/30/92
REMARKS: Information Exchange. Funding not specified.

COUNTRY: Germany
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 06/23/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. MOU with Germany. Electro-Optic Countermeasures Systems- an initial side-by-side demonstration of US and UK systems, and technical data exchange to explore feasibility of incorporating some of the UK design features to increase the capability of US systems (Cameo, Blue Jay, Stingray, Coronet Prince.) Funded with Nunn Amendment.

COUNTRY: Germany
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 05/17/89 TERM DATE:
REMARKS: Multi-Mode Seeker Demonstration (MMSD), also called Multi-Mode Seeker portion of the Extended Air Defense agreement. The development of an advanced missile to counter tactical ballistic missiles (TBMs), by integrating advanced G&C, warhead, fuze, and C3I into the existing Patriot Missile System. Modification to the Raytheon TBMs contract was completed and signed in December 1990. Hardware and software development is to integrate an active seeker component for incorporation into the missile forebody flight

COUNTRY: Germany
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 08/03/87 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Improvements on the RIM-116A (an element of the MK-31 RAM Guided Missile Weapon System) that will improve the guidance by developing an IR-all-the-way capability. In addition, modification to the MK-20 Active Optical Target Detector will greatly improve the RAM low altitude fuze performance. The improved missile will counter targets not engageable by the baseline system. Funded with Nunn Amendment.

COUNTRY: Germany
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified entry into force and terminate dates. The MOU allows for the building of an Enhanced Fighter Maneuverability Demonstrator (X31) to increase fighter aircraft agility and improve close in exchange ratios. First aircraft rolled out March 1990. First flight in Spring 1990. A second aircraft is complete. Funded with Nunn Amendment.

COUNTRY: Germany
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 06/01/90 TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. Experiment is designed to explore the use of Synthetic Aperture Radar (SAR) for ocean surface imaging. Effort will enhance both participants' understanding of the potential for SAR to improve the ASW capability of each nation. Funded with Nunn Amendment.

COUNTRY: Germany
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 02/07/91 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To develop and evaluate a limited selection of CORPS Surface-to-Air- Missile/Medium Surface-to-Air Missile (CORPS SAM/MSAM) options for operation to defend against both aircraft and tactical missiles. Involves the evaluation of technologies and system concepts, and assessment of air defense capabilities. Germany's Federal Ministry of Defence Armaments Director and US Under Secretary of Defense for Acquisition jointly agreed to explore cooperation in this area. Funded with Nunn Amendment.

COUNTRY: Germany
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 06/08/76 TERM DATE: 09/30/91
REMARKS: Being renegotiated with IPR consideration under a multilateral agreement to include other European breeder partners; was extended to 09/30/91. Finding solutions to problems connected with design, development, construction, and operation of nuclear power systems utilizing LMFBRs and to exchange information developed during the resolution of these problems. DOE Record No. 23. Funding not specified.

COUNTRY: Germany
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 12/20/74 TERM DATE: 06/30/91
REMARKS: Pending IPR negotiations. Believed by BMFT to be very important; already extended for short periods. Cooperation in radioactive waste management regarding the disposal of separated waste products and disposal of spent fuel. DOE Record No. 18. To be extended 5 years. Funding not specified.

COUNTRY: Germany
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 09/29/77 TERM DATE:
REMARKS: Termination date: Indefinite. Cooperative activities on nuclear material safeguards and physical security. DOE Record No. 31. No funding specified.

COUNTRY: Germany
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 06/03/88 TERM DATE: 06/03/93
REMARKS: Conduct investigations of deep continental crust under NSF agreement with the Federal Ministry for Research. Funding: USGS \$14,300.

COUNTRY: Germany
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 09/03/75 TERM DATE:
REMARKS: Active exchange program in all areas of transport, including measuring the influence of selected drugs on driving performance using a driver simulator; advanced transport techs & related aspects; energy & transport, civil aviation, vessel traffic systems, transport economics & planning. Ongoing agreement. Funding not specified.

COUNTRY: Germany
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 06/12/78 TERM DATE:
REMARKS: Ongoing agreement with Ministry of Research & Technology (MORT) and Ministry of Transport (MOT) regarding Development of Advanced Ground Transport, and the active transfer of documentation and meetings held pertaining to the TRANSPAPID system safety. Funding not specified.

COUNTRY: Germany
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 11/05/70 TERM DATE:
REMARKS: Program carried out by U.S., France, Germany, Italy, Japan, and the United Kingdom. Establishes cooperative research and exchange of information in the development of experimental safety vehicles. Continuing agreement. Funding not specified.

COUNTRY: Germany
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 05/09/74 TERM DATE:
REMARKS: Self-renewing agreement with German Ministry of Environment, Nature Protection, and Nuclear Safety; cooperation on auto emissions, acid deposition, economic incentives, regulatory approaches, emission and effluent control technologies, chemical and pesticide regulations. Funding not specified.

COUNTRY: Germany
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 10/08/74 TERM DATE:
REMARKS: Termination date: Indefinite. National Library of Medicine MEDLARS Agreement with the FRG Institute of Medical Documentation and Information; quid pro quo interlibrary exchanges. BMFT has written to HHS for extension. Funding not specified.

COUNTRY: Germany
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 09/01/76 TERM DATE: 09/01/91
REMARKS: Agreement with Ministry of Research and Technology in cardiovascular, pulmonary, and blood diseases, cancer arthritis and AIDS research. Under negotiation for renewal. Funding not specified.

COUNTRY: Germany
AGENCY: NASA
SUBJECT: Space
EIF DATE: 10/15/81 TERM DATE:
REMARKS: On-going MOU between NASA and Federal Minister for Research and Technology on cooperative participation in the Active Magnetospheric Particle Tracer Explorers (solar physics-winds ions). Expiration with one year's notice.
Funding: NASA programmatic.

COUNTRY: Germany
AGENCY: NASA
SUBJECT: Space
EIF DATE: 07/10/89 TERM DATE: 12/31/99
REMARKS: MOU between NASA and the Federal Ministry of Research and Technology of Germany concerning Space Shuttle flight activities, covering the D-2 mission (1993) and possible future activities to study the effects of microgravity. Funding is NASA programmatic.

COUNTRY: Germany
AGENCY: NASA
SUBJECT: Space
EIF DATE: 10/06/87 TERM DATE:
REMARKS: Has not begun; might be having budget problems. MOU between NASA and Federal Minister for Research and Technology of Germany for cooperative flights of the Spaceborne Imaging Radar (SIR) with the X-Band Synthetic Aperture Radar (X-SAR). Expires one year after final mission. Funding: NASA Programmatic.

COUNTRY: Germany
AGENCY: NASA
SUBJECT: Space
EIF DATE: 10/05/77 TERM DATE:
REMARKS: MOU between NASA and the Federal Minister for Research and Technology of Germany. Agreement continues until terminated with one year's notice. Cooperative participation in Galileo mission to Jupiter. Spacecraft launched 10/89. Funding: NASA programmatic.

COUNTRY: Germany
AGENCY: NASA
SUBJECT: Space
EIF DATE: 08/08/82 TERM DATE:
REMARKS: MOU between NASA and Germany's Federal Minister for Research and Technology on the Roentgensatellit Project (ROSAT). Launched 6/1/90. Agreement will continue until terminated with one year's notice. The FRG provided the spacecraft and telescope. Funding: NASA programmatic.

COUNTRY: Germany
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/01/75 TERM DATE: 07/17/91
REMARKS: Information exchange and general technical cooperation with BMU. Renewal under negotiation. Funding not specified.

COUNTRY: Germany
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 07/06/81 TERM DATE:
REMARKS: Termination date: Indefinite. Provides for classified
safety information exchange with the BMU. Funding not
specified.

COUNTRY: Germany
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/30/81 TERM DATE: 04/30/91
REMARKS: Reactor safety research program; umbrella agreement
with BMFT. Renewal under negotiation, including IPR; BMFT has
written to NRC to extend. Funding not
specified.

COUNTRY: Germany
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 06/01/81 TERM DATE: 06/01/91
REMARKS: Term of original MOU expired, but it was agreed to
continue the exchange without formal renewal of MOU.
Agricultural S&T; plant biotechnology, integrated pest
management, reproductive biology of swine, etc. Funding not
specified.

GREECE

COUNTRY: Greece

AGENCY: NRC

SUBJECT: Nuclear Safety

EIF DATE: 10/18/78

TERM DATE:

REMARKS: On-going. Information exchange and general technical cooperation; renewal awaiting signature. Funding not specified.

COUNTRY: Greece

AGENCY: USDA

SUBJECT: Agricultural Science

EIF DATE: 06/29/81

TERM DATE: 06/29/91

REMARKS: Germplasm exchange (Agricultural S&T). Currently in abeyance - no activities planned. No funding information available.

GUATEMALA

COUNTRY: Guatemala

AGENCY: HHS

SUBJECT: Biomedical Sciences

EIF DATE: 01/01/79

TERM DATE:

REMARKS: Termination date: Indefinite. Ministry of Health, Universidad del Valle, and the U.S. Centers for Disease Control collaborate in vector-borne parasitic disease research and training. Funding not specified.

HUNGARY

COUNTRY: Hungary
AGENCY: DOC (NIST)
SUBJECT: Metrology
EIF DATE: 04/01/77 TERM DATE:
REMARKS: Implementing arrangement under Articles II & III of the Agreement on Cooperation in Culture, Education, Science, and Technology signed April 6, 1977. Provides for short-term exchange of scientists, extended visits with Hungarian Office of Measures. Funding not specified.

COUNTRY: Hungary
AGENCY: DOC (NIST)
SUBJECT: Basic & Applied Sci.
EIF DATE: 10/04/89 TERM DATE: 10/04/94
REMARKS: Projects conducted under the umbrella US-Hungary S&T agreement; presently 5 projects with several institutions have been funded on a 50-50 arrangement.

COUNTRY: Hungary
AGENCY: DOC (NIST)
SUBJECT: Metrology
EIF DATE: 11/22/84 TERM DATE:
REMARKS: Implementing arrangement under Articles II & III of the Agreement on Cooperation in Culture, Education, Science, and Technology signed April 6, 1977. Provides for short-term exchange of scientists, extended visits with Research Institute for Technical Physics. Funding not specified.

COUNTRY: Hungary
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 02/09/88 TERM DATE: 12/31/92
REMARKS: Assist Hungarian earth science agencies in reorganization efforts. Geomagnetic data exchange and environmental geology studies. Funding: USGS \$14,600; Hungary \$71,500.

COUNTRY: Hungary
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 10/11/78 TERM DATE:
REMARKS: The Department of Transportation received a delegation of Hungarian Railroad officials on the 30th of October where

information was exchanged on a wide spectrum of issues like economic policy, high-speed railway, road construction, civil aviation and the national transportation policy. Ongoing agreement. Funding not specified.

COUNTRY: Hungary
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 10/04/89 TERM DATE: 10/04/94
REMARKS: US-Hungary S&T cooperation in medical sciences and health; joint research projects; joint scientific workshops; exchange of science and technology information. Superseded 1977 biomedical sciences agreement. Renewable in 10 years. Funding not specified.

COUNTRY: Hungary
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 02/23/81 TERM DATE:
REMARKS: Termination date: Indefinite. Agreement between the National Cancer Institute and the Hungarian National Institute of Oncology for cancer research. Funding not specified.

COUNTRY: Hungary
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/24/90 TERM DATE: 09/24/95
REMARKS: Information exchange and general technical cooperation with NAEC. Funding not specified.

COUNTRY: Hungary
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 07/07/82 TERM DATE: 07/07/92
REMARKS: Joint research, seminars, and workshops; covers all aspects of basic and applied natural and engineering sciences, social sciences, and math. An earlier generation of this agreement (NSF/KKI July '72) predated the umbrella. Funding not specified.

COUNTRY: Hungary
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 07/12/89 TERM DATE: 07/11/94
REMARKS: No funding specified.

COUNTRY: Hungary

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 10/04/89

TERM DATE: 10/04/94

REMARKS: Agreement will be renewed in 1994 for 5 years unless one of the parties requests termination. New agreement contains extensive language on IPR. Funding: U.S. contributions are matched in equivalent amounts in Hungarian currency.

ICELAND

COUNTRY: Iceland
AGENCY: DOC (NOAA)
SUBJECT: Fisheries
EIF DATE: 11/16/84 TERM DATE: 12/31/93
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

COUNTRY: Iceland
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 04/09/82 TERM DATE: 04/08/90
REMARKS: Agreement in cooperation with the Icelandic Council of Science; information and personnel exchanges; joint research in geophysical, geological, and hydrological phenomena. In renewal process. Funding: USGS \$20,000.

INDIA

COUNTRY: India
AGENCY: DOC (NIST)
SUBJECT: Basic Sciences
EIF DATE: 10/28/74 TERM DATE:
REMARKS: Termination date: Indefinite. Cooperation through U.S.-Indo Joint Commission; projects approved after 10/89 are subject to IPR requirements. Includes projects in materials and physical sciences in cooperation with 20 Indian institutions. Funding not specified.

COUNTRY: India
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 10/26/84 TERM DATE: 07/31/92
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

COUNTRY: India
AGENCY: DOD
SUBJECT: Natural Resources
EIF DATE: 05/04/84 TERM DATE: 03/31/91
REMARKS: Investigate marine flora & fauna from Indian Ocean region as sources for eventual chemicals and drugs. Only marine science field research program between the U.S. and India. Technical supervisory committee meets annually. Funding: 28,606,120 Rupees.

COUNTRY: India
AGENCY: DOE
SUBJECT: Energy (Fossil)
EIF DATE: 08/31/87 TERM DATE: 08/31/92
REMARKS: Cooperation on R&D activities pertaining to enhanced oil recovery, underground coal gasification and related technologies. DOE Record No. 215. Funding not specified.

COUNTRY: India
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 01/01/78 TERM DATE:
REMARKS: On-going. Research projects in endangered species; training in management; public education efforts including

development of the Indian Wildlife Institute. This is one of three Special Foreign Policy programs run by the FWS (Egypt, Pakistan). Funding not specified.

COUNTRY: India
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: TERM DATE:
REMARKS: Entry into Force in 1988 and termination in 1992. Agreement active. Conservation. Funding not specified.

COUNTRY: India
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/75 TERM DATE: 09/30/97
REMARKS: Continuing agreement. Research projects on Upper Mantle conductivity; seismic tomography for lithospheric studies and coal geology. U.S.-India fund administered by the Department of State. Funding: USGS \$40,000; U.S.-India fund has allocated \$190,000 total funding.

COUNTRY: India
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 11/01/86 TERM DATE:
REMARKS: Ongoing. Participates in the U.S.-India Fund for Educational, Cultural, and Scientific Cooperation. October 1991 meetings in India identified the following areas for cooperation: environmental information exchange, pollution prevention, clean and remedial technologies, fate and transport, of pollutants, global change, habitat characterization, and environmental education. Funding not specified.

COUNTRY: India
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/01/87 TERM DATE: 06/01/92
REMARKS: Vaccine and immunodiagnostics development; vaccine quality control; immunization programs development; Vaccine Action Program is joint effort by PHS and USAID; Nodal Indian Agency is Department of Biotechnology with MOHFW and Council of Medical Research. Funding not specified.

COUNTRY: India
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 10/01/83 TERM DATE: 10/01/91
REMARKS: Projects under the Reagan-Gandhi S&T initiative; NIH conducts projects in immunology and reproduction, blindness

prevention, leprosy, filariasis, tuberculosis, malaria. Funding not specified.

COUNTRY: India

AGENCY: HHS

SUBJECT: Biomedical Sciences

EIF DATE: 11/01/83

TERM DATE:

REMARKS: Termination indefinite, as it is being renewed and renegotiated under broader GOI umbrella; renewed last in March 1991. MOU for cooperation between ADAMHA and the Indian National Institute of Mental Health and Neuro Sciences (NIMHANS); projects in alcoholism, drug abuse, and mental health. Funding not specified.

COUNTRY: India

AGENCY: HHS

SUBJECT: Biomedical Sciences

EIF DATE: 09/09/86

TERM DATE: 09/09/91

REMARKS: MOU formalized long-standing relationship between NIH laboratories and selected Indian Council for Scientific and Industrial Research laboratories, basic research in cellular molecular biology and biophysics. Renewal linked to IPR negotiations. Funding not specified.

COUNTRY: India

AGENCY: HHS

SUBJECT: Medical Sciences

EIF DATE: 10/28/74

TERM DATE:

REMARKS: Indo-US Joint Commission on economic, commercial, scientific, technological education and cultural cooperation. The Subcommittee for S&T first convened in Jan. 1975. This agreement addresses: infectious diseases, blindness prevention, reproductive physiology, molecular biology, pharmacology, child health & development, mental health, substance abuse, longitudinal, demographic & health trends. Term date-Indefinite. Funded through US-India Fund.

COUNTRY: India

AGENCY: US Gov

SUBJECT: Joint Commission

EIF DATE: 10/28/74

TERM DATE:

REMARKS: Termination date: Indefinite. Joint Commission on Economic, Commercial, Scientific, Technological, Educational, and Cultural Cooperation. The S&T Subcommittee was created under the authority of Joint Commission. Advisory body to identify, promote and review; collaborative work. Funding not specified.

COUNTRY: India
AGENCY: US Gov
SUBJECT: S&T Initiative (STI)
EIF DATE: 10/01/83 TERM DATE: 10/05/91
REMARKS: NSF is executive agent for Head-of-government level agreement to implement collaboration in selected priority areas of S&T. Funding not specified.

COUNTRY: India
AGENCY: US Gov
SUBJECT: Ed, Cultural, & Sci
EIF DATE: 01/01/87 TERM DATE: 01/01/97
REMARKS: Agreement for Educational, Cultural and Scientific Cooperation (USIF) administered by the Department of State (S&T) and USIA (E&C). Funded by endowment (2/3 for S&T, 1/3 for E&C) of \$110 million worth of U.S. owned rupees and interest earned. Over 20 agencies participate. The Secretary of State has overall responsibility.

INDONESIA

COUNTRY: Indonesia

AGENCY: HHS

SUBJECT: Medical Sciences

EIF DATE: TERM DATE:

REMARKS: Entry into Force: Fall 1991. Renewable termination date. CDC Field Epidemiology Training Program; CDC-Atlanta maintains a representative in Jakarta to work on program. Program continues with funding provided by either CDC-Atlanta or the World Health Organization.

COUNTRY: Indonesia

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 10/01/79

TERM DATE: 10/05/89

REMARKS: Agreement on cooperation in scientific research & technological development; individual cooperating agencies negotiate funding with counterpart agencies. 5-year renewal pending signing.

IRELAND

COUNTRY: Ireland

AGENCY: USDA

SUBJECT: Agricultural Science

EIF DATE: TERM DATE:

REMARKS: Agricultural S&T, forage/livestock management, extension, food technology, agribusiness promotion. Unsigned, but in final stages of negotiation. Funding not specified.

ISRAEL

COUNTRY: Israel
AGENCY: DOC (NOAA)
SUBJECT: Marine Science
EIF DATE: 06/05/89 TERM DATE: 06/05/94
REMARKS: MOU for marine and freshwater cooperation. Funding not specified.

COUNTRY: Israel
AGENCY: DOD
SUBJECT: Defense Cooperation
EIF DATE: 12/14/87 TERM DATE: 12/13/97
REMARKS: MOU between Israel and the U.S. concerning the principles governing mutual cooperation in R&D, scientist and engineer exchange, and procurement and logistic support of defense equipment. Funding not specified.

COUNTRY: Israel
AGENCY: DOE
SUBJECT: Energy (Physics)
EIF DATE: 05/27/87 TERM DATE: 05/27/92
REMARKS: Cooperation in high energy physics, applied mathematical sciences, and other basic energy sciences. DOE Record No. 205. Funding not specified.

COUNTRY: Israel
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 06/03/84 TERM DATE: 06/03/91
REMARKS: Renewal for next 5 years in process. Originally signed in 1984 as a Secretariat initiative. Projects in this general bilateral agreement have been implemented for the purpose of establishing wider cooperation in the field of energy R&D, in such areas as shale combustion, coal and solar energy. Technical activity currently at low level. DOE Record No. 144. Funding not specified.

COUNTRY: Israel
AGENCY: DOI (BUREC)
SUBJECT: Natural Resources
EIF DATE: 02/08/90 TERM DATE: 02/07/95
REMARKS: S & T exchange program in water resources with the Israel Oceanographic and Limnological Research, Ltd.; joint funding.

COUNTRY: Israel
AGENCY: DOI (BUREC)
SUBJECT: Natural Resources
EIF DATE: 06/01/84 TERM DATE: 05/22/94
REMARKS: S&T exchange program in water resources with the
Ministry of Agriculture; joint funding.

COUNTRY: Israel
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 05/01/85 TERM DATE: 05/01/95
REMARKS: Global Digital Seismic Network. Funding not
specified.

COUNTRY: Israel
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 11/12/74 TERM DATE:
REMARKS: Ongoing. The agreement outlines a program to achieve
mutually advantageous cooperation in transportation research and
development. Funding not specified.

COUNTRY: Israel
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 02/20/91 TERM DATE:
REMARKS: Self-renewing every 5 yrs. MOU between EPA and the
Ministry of Environment of Israel to promote exchanges of
scientific and technical information; exchange visits of
scientific personnel; cooperation in holding of scientific
symposia and workshops; and cooperative research. Funding not
specified.

COUNTRY: Israel
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/80 TERM DATE: 05/06/95
REMARKS: Ongoing MOU Agreement with the Israeli Ministry of
Health; covers areas of health manpower and services, health
services delivery, health information system, food and drugs,
public health and biomedical research including mental health. A
binational symposium held in Washington, D.C. in November, 1991.
Funding not specified.

COUNTRY: Israel
AGENCY: NASA
SUBJECT: Space
EIF DATE: 10/06/86 TERM DATE:
REMARKS: Exchange of Scientific and Technical Information.
Funding is NASA programmatic.

COUNTRY: Israel
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 07/11/88 TERM DATE: 07/11/93
REMARKS: Information exchange and general technical cooperation
with AEC. Funding not specified.

COUNTRY: Israel
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 06/26/91 TERM DATE: 06/26/96
REMARKS: MOU signed by NCRD/NSF 5/85 for personnel and
information exchanges in basic and applied sciences; program
presently is supporting annual workshops on subjects of mutual
interest to science community. Further extension under review.
Funding not specified.

COUNTRY: Israel
AGENCY: US Gov
SUBJECT: S&T: Binational Ag. R&D Fdn.
EIF DATE: 10/25/77 TERM DATE:
REMARKS: Funding not specified.

COUNTRY: Israel
AGENCY: US Gov
SUBJECT: S&T: Binational Ind. R&D Foundation
EIF DATE: 05/18/77 TERM DATE:
REMARKS: Funding not specified. Indefinite termination date.

COUNTRY: Israel
AGENCY: US Gov
SUBJECT: S&T: Binational Science Foundn
EIF DATE: 09/27/72 TERM DATE:
REMARKS: Funding not specified. Indefinite termination date.

ITALY

COUNTRY: Italy
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 12/05/85 TERM DATE: 12/05/91
REMARKS: Agreement for purpose of establishing wider cooperation in field of energy R&D. This MOU replaces the MOU between the same parties which expired in 1979. A separate MOU for information exchange was signed. Funding not specified. DOE Record No. 169.

COUNTRY: Italy
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 12/01/83 TERM DATE: 06/05/91
REMARKS: MOU between DOE and Italy concerning energy R&D cooperation. Planned for high level meeting such as the Secretarial visit to Italy in May 1991. Funding not specified.

COUNTRY: Italy
AGENCY: DOE
SUBJECT: Energy (Renewable)
EIF DATE: 06/03/75 TERM DATE: 06/03/90
REMARKS: Agreement being renegotiated; renewed every 5 years. Collaboration in geothermal R&D to include hot dry rock, brine utilization and deep drilling methods. Primarily for information exchange. DOE Record No. 19. Funding not specified.

COUNTRY: Italy
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 12/01/83 TERM DATE: 11/30/88
REMARKS: MOU renewal for 5 years period, effective 12/1/88, sent to Italy in 1989 for signatures; but presently unsigned. Original agreement refers to cooperative activities related to marine sediment transport and hydrologic and hazard seminars. Funding: USGS \$16,700; Italy \$77,800.

COUNTRY: Italy
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 04/19/91 TERM DATE: 04/19/96
REMARKS: Scientific and technical cooperation in the earth sciences with Experimental Geophysical Observatory. No activity in FY91. Funding not specified.

COUNTRY: Italy
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 06/07/84 TERM DATE: 06/07/89
REMARKS: MOU for a cooperative program in the Installation of digital real-time seismography. In force for 5 years, may be extended by mutual written agreement. In renewal process for another 5 years, effective 06/07/89. Funding: USGS \$3,200; Italy \$4,200.

COUNTRY: Italy
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 08/31/90 TERM DATE: 08/31/95
REMARKS: Agreement with the Italian National Electric Power Authority (ENEL) for cooperation in geological sciences with experimental model and structure institute. Includes environmental geology, hydrogeology, geologic hazard mapping, and mitigation, etc. No activity in FY91. Funding not specified.

COUNTRY: Italy
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 04/12/85 TERM DATE: 04/12/90
REMARKS: Initial areas of mutual interest: a) Containerization, b) Major infrastructure construction technology, c) Emergency transportation, d) Transportation safety, and e) Intermodal freight transportation. Replaces MOU of 10-06-69. Funding not specified.

COUNTRY: Italy
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 10/06/69 TERM DATE:
REMARKS: Termination date and funding not specified.

COUNTRY: Italy
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 03/01/87 TERM DATE:
REMARKS: Self-renewing MOU between EPA and the Italian Ministry of the Environment unless either party notifies the other with a 3 months' notice; priority areas include hazardous and municipal solid waste management, environmental technologies, accident prevention and research. Funding not specified.

COUNTRY: Italy
AGENCY: HHS
SUBJECT: Biomedical Science
EIF DATE: 08/02/78 TERM DATE:
REMARKS: Termination date: Indefinite. Exchange of information. Interlibrary exchange; Italian ISS is counterpart. Funding not specified.

COUNTRY: Italy
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 11/21/77 TERM DATE:
REMARKS: MOU between HHS and the Italian Ministry of Health in health and biomedicine; renewable every 3 yrs unless one party notifies the other of the termination thereof not less than 6 months prior to its expiration; covers environmental health, cardiovascular and pulmonary diseases, cancer, biomedical communication, infectious disease, immunizations, mental health, substance abuse, and alcohol-related problems. Funding not specified.

COUNTRY: Italy
AGENCY: HHS
SUBJECT: Medical Sciences
EIF DATE: 12/19/88 TERM DATE:
REMARKS: MOU on good laboratory practice. It may be terminated any time by written notice to the other party. As of FY91 it is still active. Funding not specified.

COUNTRY: Italy
AGENCY: NASA
SUBJECT: Space
EIF DATE: 03/07/84 TERM DATE:
REMARKS: MOU between the National Research Council (CNR) of Italy (CNR superseded in 1988 by the Italian Space Agency) and NASA for cooperative development and the launch of the Lageos-2/IRIS Space Shuttle mission. Expires 2 years after launch of Lageos-2 joint mission. Funding: NASA programmatic.

COUNTRY: Italy
AGENCY: NASA
SUBJECT: Space
EIF DATE: 03/13/86 TERM DATE:
REMARKS: Expected termination date is Summer 1993, a year after completion of the joint mission. MOU between the National Research Council (CNR) of Italy (CNR superseded in 1988 by the Italian Space Agency) and NASA for cooperative development and launch of the Tethered Satellite System Space Shuttle (TSS).
Funding: NASA programmatic.

COUNTRY: Italy
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/28/88 TERM DATE: 09/28/93
REMARKS: Replaces the original MOU signed on 05/29/75. Arrangement for information exchange and general technical cooperation on nuclear safety matters with ENEA. The present "arrangement" is valid for 5 years unless extended for a further period of time by agreement of the parties. Funding not specified.

COUNTRY: Italy
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/05/87 TERM DATE: 06/05/91
REMARKS: Agreement relating to ENEA participation in the NRC program of severe accident, source term, and containment research with ENEA. Valid for a period of 4 years unless extended by mutual agreement. New agreement under negotiation. Funding not specified.

COUNTRY: Italy
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 12/22/88 TERM DATE: 09/30/93
REMARKS: Safety and Licensing of Future Nuclear Power Plants with ENEA. Funding not specified.

COUNTRY: Italy
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 01/23/86 TERM DATE: 01/23/91
REMARKS: Renewal under negotiation. Agreement of thermal hydraulic research with ENEA. Renewable every 5 years. Cooperation evolved into a new program called CAMP. Funding not specified.

COUNTRY: Italy
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/03/89 TERM DATE: 04/03/94
REMARKS: International piping integrity research with ENEA.
Valid for 5 years. Funding not specified.

COUNTRY: Italy
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 06/19/67 TERM DATE: 04/01/93
REMARKS: Projects under S&T umbrella agreement; provides for joint research, seminars and workshops; information and personnel exchanges. NSF counterpart is the Italian National Research Council. U.S. Department of State and Italian Foreign Ministry-lead agencies. The agreement is to be replaced by a NSF-CNR cooperation agreement, but is held up by disagreement on intellectual property treatment. Funding not specified.

COUNTRY: Italy
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 04/01/88 TERM DATE: 04/01/93
REMARKS: The executive parties are the U.S. Department of State and the Italian Ministry of Foreign Affairs. Agreement for S&T cooperation; intellectual property provisions being renegotiated; individual cooperating agencies negotiate funding with counterpart agencies.

JAPAN

COUNTRY: Japan
AGENCY: DOC (NIST)
SUBJECT: Basic & Applied Science
EIF DATE: 09/14/89 TERM DATE: 09/13/94
REMARKS: MOU Agreement is with the Nippon Telegraph & Telephone Corporation which is a private corporation; joint research on semiconductors, telecommunications, computers and computer networking, time and frequency measurements, and related fields. Funding not specified.

COUNTRY: Japan
AGENCY: DOC (NOAA)
SUBJECT: Marine Science
EIF DATE: 01/01/64 TERM DATE:
REMARKS: US-Japan Cooperative Program in Natural Resources: Joint multidisciplinary research projects; information and data exchange panels coordinated through STA (Science and Technology Agency) in Japan, and DOC/NOAA in the U.S. 16 panels: Aquaculture; Diving Physiology and Technology; Marine Facilities; Marine Geology; Marine Instrumentation and Communications; Marine Mining; Sea Bottom Surveys; Conservation, Recreation, and Parks; Earthquake Prediction Technology; Fire Research and Safety; Forage and Seeds; Forestry; Mycoplasmosis; Protein Resources; Toxic Micro-Organisms; Wind and Seismic Effects. Termination date: Indefinite. Funding not specified.

COUNTRY: Japan
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 08/11/83 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. The agreement will continue in force as long as NOAA retains control of Landsat data. No U.S. funding.

COUNTRY: Japan
AGENCY: DOC (NOAA)
SUBJECT: Fisheries
EIF DATE: 11/29/77 TERM DATE: 12/31/91
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

COUNTRY: Japan
AGENCY: DOD
SUBJECT: Technology Transfer
EIF DATE: 03/08/54 TERM DATE: 03/08/97
REMARKS: Mutual defense assistance agreement is basis for activities of Embassy's mutual defense assistance office and for later agreements for the transfer of technology. This DOD umbrella agreement includes the safeguard of classified material and cooperative R&D programs. Renewable every 10 yrs automatically, unless either party declines. Funding not specified.

COUNTRY: Japan
AGENCY: DOD
SUBJECT: Technology Transfer
EIF DATE: 01/01/85 TERM DATE:
REMARKS: Termination date: indefinite. DOD umbrella agreement allowed for 3 agreements regarding Japanese military technology to be transferred to the U.S.--2 were shipbuilding-related technologies, 1 dealt with the Keiko-SAM missile (not transferred due to restrictions with Toshiba), 1 dealt with FSX technology. Funding not specified.

COUNTRY: Japan
AGENCY: DOE
SUBJECT: Energy (Peaceful Uses)
EIF DATE: 06/20/88 TERM DATE: 06/20/93
REMARKS: Developed cooperation in scientific and technological R&D in such fields as may be mutually agreed upon for peaceful purposes. DOE Record No. 248. Funding not specified.

COUNTRY: Japan
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 05/02/79 TERM DATE: 02/01/95
REMARKS: By Memoranda and Contracts cooperation ranges from studying responses to radiation at the Radiation Effects Research Foundation at Hiroshima and Nagasaki, to high energy physics and fusion research. Also, clean coal technology, solar energy. DOE Record No. 42. Funding not specified.

COUNTRY: Japan
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 12/03/86 TERM DATE: 12/03/96
REMARKS: Study topics and develop cooperatively and jointly technology and techniques necessary for the safe management of radioactive wastes. Information exchange and joint R&D. DOE Record No. 193. Funding not specified.

COUNTRY: Japan
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 01/31/79 TERM DATE: 07/31/00
REMARKS: Cooperation in the design, development, construction and operation of liquid metal fast breeder reactors. DOE Record No. 39. Funding not specified.

COUNTRY: Japan
AGENCY: DOI (BLM)
SUBJECT: Natural Resources
EIF DATE: 10/24/68 TERM DATE:
REMARKS: On-going. United States/Japan Natural Resources (UJNR) Forestry Panel--Exchange scientific and technical information concerning utilization and enhancement of forest products. No funding specified.

COUNTRY: Japan
AGENCY: DOI (MMS)
SUBJECT: Marine Mining
EIF DATE: TERM DATE:
REMARKS: On-going. Entry into Force in 1968 as one of the marine panels of the United States-Japan Cooperative Program in Natural Resources (UJNR). This panel, chaired by the MMS, deals with the technology for and environmental aspects of marine mining. The MMS also serves on two additional marine panels: one dealing with facilities, such as oil platforms; and the other deals with the effects of wind and seismic activity. Funding not specified.

COUNTRY: Japan
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 11/01/86 TERM DATE: 11/01/91
REMARKS: Exchange; US-Japan agreement on development and utilization of natural resources; US-Japan Panels: Natural areas, conservation, recreation and parks, city parks and urban affairs. Funding not specified.

COUNTRY: Japan
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 10/24/86 TERM DATE:
REMARKS: U.S./Japan Natural Resources (UJNR) Earthquake Prediction Panel. Funding: USGS \$44,800; Japan \$8,600.

COUNTRY: Japan
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 02/25/85 TERM DATE: 10/28/91
REMARKS: MOU between the USGS and the Geological Survey of Japan, MITI, covering cooperation in the field of earth sciences: Regular and environmental geology, marine geology, geothermal investigation, etc. JGS suggests to the USGS that the agreement be extended 3 more years. Funding: USGS \$58,300; Japan \$60,900.

COUNTRY: Japan
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 02/25/85 TERM DATE:
REMARKS: Termination date: 1998. Advise GOJ on design of thermal-infrared multispectral imaging instrument. NASA Funding: \$35,600.

COUNTRY: Japan
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 11/18/70 TERM DATE:
REMARKS: MOU concerning cooperation in the development of Experimental Safety Vehicles; continued cooperation concerning rail transportation. Funding not specified.

COUNTRY: Japan
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 08/05/75 TERM DATE:
REMARKS: Self-renewing every 5 years. Agreement between U.S. Government and Japan's Ministry of Agriculture, Forestry and Fisheries on cooperation in good laboratory practices and in the field of environmental protection: 15 projects-air pollution related meteorology, automobile pollution related meteorology, environmental economics and incentives, environmental impact assessments, food chemistry, water quality, identification and containerization of toxic substances, management of bottom sediments, photochemical air pollution, sewage treatment, stationary source pollution containment, solid waste management, water conservation and flow redirection, drinking water, protection of global atmosphere. Funding not specified.

COUNTRY: Japan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 09/01/84 TERM DATE: 11/14/92
REMARKS: Gerontology research; MOA between the National Institute on Aging and Tokyo Metropolitan Institute of Gerontology for cooperation in biomedical research related to aging and the problems of the elderly. Funding not specified.

COUNTRY: Japan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 04/01/76 TERM DATE: 03/31/91
REMARKS: Vision research; agreement between the National Eye Institute (NIH/NEI) and the Japan Society for the Promotion of Science. Automatic renewal. Funding not specified.

COUNTRY: Japan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/74 TERM DATE:
REMARKS: Termination date: Indefinite. MOU between the National Library of Medicine (MEDLARS) and the Japan Information Center for S&T (JICST); quid pro quo interlibrary exchanges. Funding not specified.

COUNTRY: Japan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 05/14/74 TERM DATE: 04/01/94
REMARKS: Termination date: automatically renewed. Coloquially known as the "Nakasone 10-Cancer Project", this MOU between the National Cancer Institute and the Japan Society for the Promotion of Science concerns cooperation in the area of cancer research: 4 panels - etiology, biology and diagnosis, treatment, interdisciplinary. Funding not specified.

COUNTRY: Japan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/20/88 TERM DATE: 06/20/93
REMARKS: Projects under the umbrella S&T agreement; exchanges, work-study programs, joint research; covers cardiovascular diseases, laboratory animals, toxicology, recombinant DNA, vaccine development, antiviral agents, alcohol-related problems, bioprocessing, alternatives to animals and human genome. Additional Life Science Projects: bioprocessing, human genome research, alternatives to animal testing methods. Funding not specified.

COUNTRY: Japan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/13/65 TERM DATE:
REMARKS: Termination date: Indefinite. US-Japan Cooperative Medical Sciences Program; projects divided into 9: Cholera and like diarrheas, Immunology, Leprosy/Hansen's Disease, Malnutrition, Parasitic diseases, Tuberculosis, viral diseases, environmental mutagenesis and cary, v.hepeticus, and AIDS. Funding not specified.

COUNTRY: Japan
AGENCY: NASA
SUBJECT: Space
EIF DATE: 09/05/89 TERM DATE:
REMARKS: Termination date: indefinite. Entering Phase C/D/E of Space Station Program; Detailed Design and Development; total funding with international partners in excess of \$7.0 billion; Japanese hardware accounting for \$2 billion.

COUNTRY: Japan
AGENCY: NASA
SUBJECT: Space
EIF DATE: 01/28/88 TERM DATE:
REMARKS: S&T collaboration between the National Space Development Agency (NASDA) and NASA, like direct reception of data from Japan's JERS-1 spacecraft at a NASA receiving station. MOU agreement in force up to 1 year after technical lifetime of JERS-1. Funding not specified.

COUNTRY: Japan
AGENCY: NASA
SUBJECT: Space (SSLG)
EIF DATE: 07/01/79 TERM DATE:
REMARKS: Agreement based on letter exchange between NASA Administrator and Japanese SAC Chairman in July 1979. Programs include: Astrophysics (4 themes), solar system science (10 themes), earth observation (7 themes), life science (2 themes), and microgravity science (5 themes). Termination date: indefinite. Funding not specified.

COUNTRY: Japan
AGENCY: NASA
SUBJECT: Space (FMPT)
EIF DATE: 03/30/85 TERM DATE: 09/30/95
REMARKS: MOU between NASA and the National Space Development Agency (NASDA) for furnishing launch and associated services for SPACELAB J/FMPT (first material processing test) on reimbursable basis. Further funding not specified.

COUNTRY: Japan
AGENCY: NASA
SUBJECT: STSP (Space Physics)
EIF DATE: 12/19/89 TERM DATE:
REMARKS: Geotail satellite cooperation. Termination one year
after mission completion. Funding: NASA
programmatic.

COUNTRY: Japan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 11/07/84 TERM DATE: 11/06/94
REMARKS: Radioactive waste management. Extended without the
extension of its parent agreement. New agreement under
discussion. Funding not specified.

COUNTRY: Japan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/25/91 TERM DATE: 09/30/96
REMARKS: Safety research agreement. Funding not specified.

COUNTRY: Japan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/13/83 TERM DATE: 12/31/90
REMARKS: Severe fuel damage and fission product source term
research with JAERI; Although the agreement has expired, both
want to renew the agreement, are engaged in renewal discussions,
and are acting as if the agreement is still continuing. Funding
not specified.

COUNTRY: Japan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 07/17/89 TERM DATE: 03/31/93
REMARKS: Development of SIMMER-III nuclear safety computer ?
with PNC. Funding not specified.

COUNTRY: Japan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 05/30/74 TERM DATE: 12/31/90
REMARKS: Information exchange and general technical cooperation
with STA and ANRE. Both parties are discussing renewal, and are
acting as if the agreement is still continuing. Funding not
specified.

COUNTRY: Japan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 02/01/84 TERM DATE: 01/31/92
REMARKS: ROSA IV LWR safety research agreement on small break
LOCAs and transients. Funding not specified.

COUNTRY: Japan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/09/87 TERM DATE: 10/08/92
REMARKS: Development and Application of Nuclear Safety Analysis
Computer Codes with ANRE/JINS. Funding not specified.

COUNTRY: Japan
AGENCY: NSF
SUBJECT: Energy
EIF DATE: 10/05/81 TERM DATE:
REMARKS: Renewed 02/90; termination date - 02/95. MOUs with
Ministry of Education, Science, and Culture (MONBUSHO) and the
Science and Technology Agency (STA) to support cooperative
research and science seminars in the areas of photosynthesis and
photoconversion. These MOUs are conducted as a protocol, which
NSF administers, under the DOE-administered umbrella energy
agreement (No. 34). Funding not specified.

COUNTRY: Japan
AGENCY: NSF
SUBJECT: Computer Science
EIF DATE: 04/01/87 TERM DATE:
REMARKS: Ongoing. Establishes exchange program. Funding:
variable, \$70 thousand to date.

COUNTRY: Japan
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 06/01/63 TERM DATE: 06/01/93
REMARKS: Seminars & workshops; long-term joint research visits;
short-term project development visits; annual seminars identify
joint priorities. Funding not specified. Renewal automatic
unless parties refuse.

COUNTRY: Japan
AGENCY: NSF
SUBJECT: Computer Science
EIF DATE: 06/01/86 TERM DATE:

REMARKS: MOU with the Japanese Institute for new generation computer technology (ICOT), under which ICOT will host up to 3 NSF-supported researchers for 6-12 month cooperative research visits per year. Termination date: indefinite. Detailed funding information not specified.

COUNTRY: Japan

AGENCY: NSF

SUBJECT: Basic Science

EIF DATE: 06/01/88

TERM DATE: 06/01/93

REMARKS: Ongoing. MOU with the Agency of Industrial Science and Technology (AIST/MITI) to send up to 30 researchers per year to AIST labs for 6-12 month stays. Renewable every 5 years if both parties concur; renewed in 1990. Funding information not specified.

COUNTRY: Japan

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 01/01/75

TERM DATE: 01/01/91

REMARKS: '75 bilateral environmental agreement and '88 umbrella S&T agreement (UJST) offers cooperation in facilitating transfer of Japan technology, statistics, analytical techniques. 14 panels operate under '75 agreement, Japan proposed another for global atmosphere. Funding not specified.

COUNTRY: Japan

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 05/01/80

TERM DATE: 06/20/93

REMARKS: Agreement on cooperation and development in S&T; joint R&D in all areas of S&T, except energy, and cooperation in developing S&T policies of the two countries; individual cooperating agencies negotiate funding with counterpart agencies.

JORDAN

COUNTRY: Jordan

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 09/01/82

TERM DATE: 12/31/91

REMARKS: Seismic network program, remote sensing; funded by
USAID at \$80,000.

KENYA

COUNTRY: Kenya
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 04/01/90 TERM DATE: 03/31/91
REMARKS: Kenya International Seismic Project--Investigate deep seismic structures of the East African Rift. No activity in FY91.

COUNTRY: Kenya
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/79 TERM DATE:
REMARKS: Termination date: Indefinite. Malaria research by the Centers for Disease Control and collaborating Kenyan agencies. Funding not specified.

KOREA

COUNTRY: Korea
AGENCY: DOC (NIST)
SUBJECT: Metrology
EIF DATE: 06/01/86 TERM DATE: 06/01/89
REMARKS: Active while renewal underway; agreement with K. Standards Research Institute to improve knowledge and engineering practices in measuring mechanical properties of materials at low temperatures; low pressure measurement techniques. Funding not specified.

COUNTRY: Korea
AGENCY: DOC (NOAA)
SUBJECT: Fisheries
EIF DATE: 03/03/77 TERM DATE: 12/31/93
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program. Funding not specified.

COUNTRY: Korea
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 11/06/11 TERM DATE: 11/06/91
REMARKS: Renewal pending IPR renegotiations. Cooperation in the broad area of energy conservation. DOE Record No. 94. Funding not specified.

COUNTRY: Korea
AGENCY: DOE
SUBJECT: Energy (Renewable)
EIF DATE: 11/06/81 TERM DATE: 11/06/91
REMARKS: Renewal pending IPR renegotiations. Cooperation in all phases of solar energy research. DOE Record No. 95. Funding not specified.

COUNTRY: Korea
AGENCY: DOE
SUBJECT: Energy (Fossil)
EIF DATE: 11/06/81 TERM DATE: 10/08/91
REMARKS: Renewal pending IPR renegotiations. Exchange of coal related information; personnel exchange and consultation in coal technology. DOE Record No. 96. Funding not specified.

COUNTRY: Korea
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 12/11/86 TERM DATE: 12/31/89
REMARKS: MOU has expired, but informal cooperation continues. Cooperative research on origin and evolution of marine minerals, joint research cruises, exchange visits and laboratory analyses. Funding: USGS \$15,800; Korea \$3,000.

COUNTRY: Korea
AGENCY: EPA
SUBJECT: Environment
EIF DATE: TERM DATE:
REMARKS: An MOU between EPA and the Korean Environment Agency was agreed to in November 1987. The agreement has not been implemented because IPR issues have held up the signing of the formal US-ROK agreement. Funding not specified.

COUNTRY: Korea
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 08/23/84 TERM DATE: 12/27/90
REMARKS: Severe accident, source term, and containment research with KAERI; renewal under negotiation. Funding not specified.

COUNTRY: Korea
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 03/18/76 TERM DATE: 11/01/86
REMARKS: Information exchange and general technical cooperation with MOST; renewal under negotiation. Funding not specified.

COUNTRY: Korea
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 05/01/86 TERM DATE: 05/01/91
REMARKS: Thermal hydraulic research with KAERI. Cooperation evolved into a new program called CAMP; under renegotiation. Funding not specified.

COUNTRY: Korea
AGENCY: NSF
SUBJECT: Basic Sci & Engnrng
EIF DATE: 05/24/77 TERM DATE: 05/24/92
REMARKS: MOU renewed '82, '87. Renewable every 5 years. When S&T umbrella agreement is renegotiated & signed, MOU under IPR protection. Joint research, seminars, & workshops; long-term joint research visits; short-term project development. Funding not specified.

COUNTRY: Korea
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 11/22/76 TERM DATE:
REMARKS: Provisions of this S&T agreement permit preexisting activities to continue. A new S&T umbrella agreement, including an IPR annex, was initialed in December 1991; effective pending entry into force of a patent secrecy agreement. Termination date: 5 years after signature. Funding between individual cooperating agencies with counterpart agencies.

KUWAIT

COUNTRY: Kuwait
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 12/04/88 TERM DATE: 12/31/93
REMARKS: No activities in FY91. Funding not
specified.

MAURITANIA

COUNTRY: Mauritania

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 01/11/87

TERM DATE: 01/11/92

REMARKS: No activity in FY91. Funding not specified.

MEXICO

COUNTRY: Mexico
AGENCY: DOC (CENSUS)
SUBJECT: Statistics
EIF DATE: 03/27/86 TERM DATE: 03/27/91
REMARKS: Activity level: Low end of moderate. This cooperation agreement provides for exchange of methodology, documents, information. No Funding.

COUNTRY: Mexico
AGENCY: DOC (NIST)
SUBJECT: Basic & Applied Sci.
EIF DATE: 10/27/91 TERM DATE: 10/17/96
REMARKS: Umbrella agreement with National Science Foundation and Mexican Department of Commerce and Industrial Development for cooperation in engineering, chemistry, physics, and measurement sciences. Funding not specified.

COUNTRY: Mexico
AGENCY: DOC (NOAA)
SUBJECT: Fisheries (Pacific)
EIF DATE: 11/19/86 TERM DATE: 11/30/89
REMARKS: A MOU for cooperative research on shared resources in the Pacific and for the exchange of scientific information and cooperative research in the fisheries sector; efforts to renew up to 11/30/94 are underway. Funding not specified.

COUNTRY: Mexico
AGENCY: DOC (NOAA)
SUBJECT: Fisheries (Gulf)
EIF DATE: 11/19/86 TERM DATE: 11/30/89
REMARKS: A MOU for cooperative research on shared resources in the Gulf of Mexico for the exchange of scientific information and cooperative research on the fisheries sector; efforts to renew up to 11/30/94 are underway. Funding not specified.

COUNTRY: Mexico
AGENCY: DOC (NOAA)
SUBJECT: Fisheries
EIF DATE: 06/24/88 TERM DATE: 11/30/89
REMARKS: A MOU for the exchange of scientific and economic data and information on the fisheries sector; efforts to renew up to 11/30/94 are underway. Funding not specified.

COUNTRY: Mexico
AGENCY: DOE
SUBJECT: Energy (Fossil)
EIF DATE: 06/20/83 TERM DATE: 06/20/90
REMARKS: Exchange information and develop basic and applied research programs in petroleum technology. DOE Record No. 125. Funding not specified.

COUNTRY: Mexico
AGENCY: DOE
SUBJECT: Energy (Renewable)
EIF DATE: 04/07/86 TERM DATE: 04/07/94
REMARKS: Develop an understanding of geothermal reservoirs in sedimentary and fractured igneous rocks. DOE Record No. 178; expected to be extended. Funding not specified.

COUNTRY: Mexico
AGENCY: DOI (BLM)
SUBJECT: Natural Resources
EIF DATE: 01/01/61 TERM DATE:
REMARKS: On-going. North American Forestry Commission; Exchange information and advise the FAO Committee on Forestry concerning forest and wildfire management practices. Funding not specified.

COUNTRY: Mexico
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 05/12/84 TERM DATE: 05/11/94
REMARKS: Cooperative projects on endangered, migratory birds, law enforcement, training, and other wildlife matters. Funding not specified.

COUNTRY: Mexico
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 03/16/88 TERM DATE:
REMARKS: On-going. Tripartite cooperation on waterfowl and wetlands conservation. Funding not specified.

COUNTRY: Mexico
AGENCY: DOI (NPS)
SUBJECT: National Parks
EIF DATE: 11/30/88 TERM DATE: 11/30/93
REMARKS: Mutual objectives/interests declared in the Convention on Nature Protection and Wildlife Preservation in the Western Hemisphere of 10-20-40, World Heritage/cross border resource issues. No funding specified.

COUNTRY: Mexico
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 07/01/90 TERM DATE: 07/01/91
REMARKS: Use of PCs for change detection & map revision with satellite data. U.S.-Mexico S&T Agreement (\$25K) and USGS-CETENAL MOU and DMA IAGS. USGS funding: \$4,000, .05 FTE.

COUNTRY: Mexico
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 03/31/89 TERM DATE: 03/31/94
REMARKS: Scientific cooperation and exchange in geothermal and related volcanic investigations. Funding not specified.

COUNTRY: Mexico
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 08/26/90 TERM DATE: 09/17/91
REMARKS: Research programs in seismology with National University of Mexico. Funding: USGS \$5,500; Mexico \$2,100.

COUNTRY: Mexico
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 06/01/89 TERM DATE:
REMARKS: Ongoing. Agreement between the United States Coast Guard and the Government of Mexico for cooperation in maritime search and rescue. Funding not specified.

COUNTRY: Mexico
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 11/16/72 TERM DATE:
REMARKS: Major areas for cooperation include highway, rail, oil pollution control, and border congestion. Ongoing agreement. Funding not specified.

COUNTRY: Mexico
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 10/04/89 TERM DATE:
REMARKS: Termination date: Indefinite. Agreement to protect and improve the environment in Mexico City focusing initially on air quality, water quality, waste management, health aspects of environmental pollution, and sustainable development. Funding not specified.

COUNTRY: Mexico
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 01/01/83 TERM DATE:
REMARKS: Termination date: Indefinite. Governmental agreement for cooperation in the protection, improvement and conservation of the border environment. Significant progress has occurred under this agreement in a number of problem-specific areas through the conclusion and implementation of five annexes, as follows: Tijuana sewage (Annex I); accidental spills of hazardous wastes along the inland boundary (Annex II); Transboundary movement of hazardous wastes and substances (Annex III); regulation of air pollution from smelters in the Arizona-Sonora "Copper Triangle" (Annex IV); and air pollution monitoring in sister cities along the border (Annex V). Funding not specified.

COUNTRY: Mexico
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/84 TERM DATE: 12/31/90
REMARKS: Field epidemiology training by the Centers for Disease Control with the Secretaria de Salud. Active agreement. Funding not specified.

COUNTRY: Mexico
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/84 TERM DATE: 11/01/92
REMARKS: Plan for Scientific Cooperation between NIH and Center for Research and Advanced Studies, National Polytechnic Institute, Mexico (CINVESTAV IPN); covers neurosciences and endocrinology, neurobiology and anaesthesiology, molecular aging, liver metabolism. Funding not specified

COUNTRY: Mexico
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 03/11/82 TERM DATE:
REMARKS: Termination date: Indefinite. An agreement for scientific cooperation on alcohol-related problems, between the National Institute on Alcohol Abuse and Alcoholism and the Mexican Institute of Psychiatry. Funding not specified.

COUNTRY: Mexico
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/30/76 TERM DATE:
REMARKS: Termination date: Indefinite. National Library of
Medicine MEDLARS Agreement with Centro Nacional de Informacion y
Documentacion en Salud (CENIDS); quid pro quo interlibrary
exchange. ADAMHA program interests in mental health and
substance abuse in U.S.-Mexico Border Initiative. Funding not
specified.

COUNTRY: Mexico
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/02/87 TERM DATE: 06/02/92
REMARKS: General safety research umbrella agreement with CNSNS.
Funding not specified.

COUNTRY: Mexico
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/08/81 TERM DATE: 10/06/94
REMARKS: Information exchange and technical cooperation with
CNSNS. Funding not specified.

COUNTRY: Mexico
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 06/15/72 TERM DATE:
REMARKS: Ongoing. Projects under S&T umbrella agreement;
information & personnel exchanges; joint research; seminars,
workshops, & meetings. Dept of State and Mexican Foreign Ministry
are lead agencies. Funding not specified.

COUNTRY: Mexico
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 12/06/83 TERM DATE: 12/06/88
REMARKS: Joint Communique, 04/28/88 to pursue renewal for
program of agricultural and natural resource cooperation in the
fields of tropical agriculture, in arid zones, animal husbandry,
soil conservation, crop forecasting, pest control. Funding not
specified.

COUNTRY: Mexico

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 06/15/72

TERM DATE:

REMARKS: Termination date: Indefinite. Agreement for scientific & technical cooperation; individual cooperating agencies negotiate funding with counterpart agencies; restructuring of bilateral mixed commission in 1988 to deal with policy and coordination issues only.

MULTILATERAL

COUNTRY: Multilateral
AGENCY: DOC (NIST)
SUBJECT: Materials Science
EIF DATE: 05/01/87 TERM DATE: 04/30/92
REMARKS: International accord with France, UK, Italy, Canada, Japan, Germany, and Commission of European Communities; participation in the Versailles Project on Advanced Materials (VAMAS); NIST represents U.S.; cooperation deals with pre-standards measurements. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 09/01/88 TERM DATE:
REMARKS: Search and Rescue Satellite System; 15 year agreement including the U.S., the USSR, France and Canada. Funding not specified.

COUNTRY: Multilateral (ESA)
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 02/23/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 08/01/86 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: France, United Kingdom, and the U.S. ARDS (Airborne Radar Demonstration System) program to demonstrate interoperability of UK's ASTOR airborne component and France's ORCHIDEE system with US Army's ground station component of JSTARS. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 09/12/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Germany, United Kingdom, and the

U.S. CVC2-Combat Vehicle Command and Control. Technology development to provide embedded C2 and cockpit automation for ground combat vehicles under the Battlefield Management System (BMS) umbrella concept for M1A1 and Leopard 2. Focus on combat vehicles at battalion level. Provides capability for reporting locations/situations assessment, coordinating attack maneuvers, targeting, etc. Funded with Nunn Amendment.

COUNTRY: Multilateral

AGENCY: DOD

SUBJECT: Technical R&D

EIF DATE: 05/16/90

TERM DATE:

REMARKS: Cooperative R&D agreement of unspecified termination date. Future Tank Main Armament (FTMA) cooperative effort is intended to enable multinational development of future tank main armament capable of over-matching the threat projected for the year 2000 and beyond. The effort is based on solid propellant technology and employs a 140mm caliber gun. Countries involved: France, Germany, United Kingdom, and the U.S. Funded with Nunn Amendment.

COUNTRY: Multilateral

AGENCY: DOD

SUBJECT: Technical R&D

EIF DATE: 09/01/90

TERM DATE:

REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Italy, Spain, the U.S. AV-8B Radar Integration to provide US Marine Corps and allies with air-to-air capabilities. Funded with Nunn Amendment.

COUNTRY: Multilateral

AGENCY: DOD

SUBJECT: Technical R&D

EIF DATE: 06/21/88

TERM DATE:

REMARKS: Cooperative R&D agreement of unspecified termination date. MOU signed with Norway 06/21/88; with the United Kingdom 05/05/89. Classified annexes to both MOUs in work. Two bilateral MOUs (United Kingdom and Norway) with the U.S. entered to conduct research into electro-magnetic and optical sensors to detect submarines or their signatures in the ocean with emphasis on radar and laser. In the FY91 Appropriations Congress directed OSD to take over management of programs from DARPA. Similar program with Germany called SAXON under control of U.S. Navy. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 03/15/89 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: France, Germany, the Netherlands, Norway, Spain, the United Kingdom, and the U.S. This program will create NATO procedural and technical interface standards for data systems and their supporting communication systems (E.G., MIDS, JTIDS, BICES). Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 07/06/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Canada, France, Italy, Germany, the United Kingdom, the Netherlands, Norway, Spain, and the U.S. Concerns a tactical communications system designed to common standards to meet the requirement for the land combat zone-post 2000. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 07/18/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Portugal, Spain, the United Kingdom, and the U.S. It provides NATO and U.S. operating commanders with common, current, and dynamic pictures of enemy dispositions. Combines communication and intelligence systems (an umbrella of systems) for integration into ACE ACCIS. Connected to NMOS and ACCES. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. MOA signed with Germany 04/89, and with France 02/91. Exploratory and/or prefeasibility development of an engine to demonstrate the next generation of ducted rocket technology for medium range air-to-air missiles. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D

EIF DATE: 04/01/80

TERM DATE:

REMARKS: Cooperative R&D agreement of unspecified termination date. A lightweight, automatic detector samples, detects and classifies chemical and biological hazards in the air and on surfaces. Represents first field biological agent detection capability within NATO. Countries involved: Canada, United Kingdom, and the U.S. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D

EIF DATE:

TERM DATE:

REMARKS: Cooperative R&D agreement with unspecified termination date. MOU signed with France 9/24/88; signed with Germany 7/3/90. This MOU encompasses 2 bilateral projects. Development of 32-and 16-bit processing modules, high speed data bus modules, a video processing module and system couplers. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D

EIF DATE: 12/01/86

TERM DATE:

REMARKS: Cooperative R&D agreement with unspecified termination date. Countries involved: France, Germany, Italy, Spain, and the U.S.; Italy joined the others in 07/14/87. MIDS - Multi-Functional Information Distribution Systems program to design, develop, and build a smaller, lighter, lower cost terminal, functionally equivalent to the JTIDS class 2 terminals. Display system to be installed on US F/A-18, EFA, and Rafale. Program transitioned from Air Force to Navy. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D

EIF DATE: 05/26/88

TERM DATE:

REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Belgium, Denmark, the Netherlands, Norway, and the U.S. Program objective is to do preliminary design of an aircraft to complement the ATF, meet the mid-1990s threat, and meet the EPGs need for a follow-on fighter. It will also continue to encourage NATO cooperation and interoperability through the existing structure developed under the F-16 MOU. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Concerns JSTARS (Joint Surveillance Target Attack Radar System) Interoperability - SORPROS and SIDL. SORPROS (Stand Off Radar Program Studies) is to assess the impact of stand off radar in a modern battlefield environment through increased European participation in such cooperative studies; SORPROS MOU signed 12/15/88. SIDL (SOSTAS Interoperable Data Link) produces a system specification for a common data link in accordance with the Joint NATO Staff Target; SIDL MOU signed 03/23/89. Countries involved: France, Italy, United Kingdom, and the U.S. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. MOU signed by Canada and Denmark 11/26/86; MOU with France, Germany, Italy, the Netherlands, Norway, Spain, and the United Kingdom will become effective upon signature. This MOU uses the common ADA programming support environment interface set on the foundation for APSE that will support transportability of data, and the reduction of software lifecycle costs. Active involvement of all participants. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. MOU signed with France signed 2/16/86; with Germany 1/11/90; and with the United Kingdom 1/21/89. This is a compilation of 3 separate projects: 1) Advanced Armor Protection Systems, 2) Reactive Armor, and 3) Tandem Warheads Armor/Anti-Armor Chemical Energy Warheads. Funded with Nunn Amendment.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 07/31/78 TERM DATE: 12/31/92
REMARKS: OECD (IEA) R&D program on the application of heat pump systems to energy conservation. Participating countries: Austria, Denmark, Germany, Ireland, Italy, the Netherlands, New Zealand, Sweden, Switzerland, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: TERM DATE: 12/31/94
REMARKS: OECD (IEA) program to develop and test solar heating and cooling systems. Covers annexes in areas such as: Investigation of performance; use of meteorological information for collectors, and solar applications for buildings. Participating countries/international organization: Australia, Austria, Belgium, Canada, Denmark, EEC, Finland, Germany, Greece, Italy, the Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom, Japan, and the U.S. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 03/15/87 TERM DATE: 03/15/93
REMARKS: OECD (IEA) research program on fossil fuel multiphase flow sciences. Participating countries: Canada, Norway, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy (Fusion)
EIF DATE: 08/31/90 TERM DATE: 08/30/95
REMARKS: OECD (IEA) program on development of the stellarator concept. Participants: The EEC and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy (Renewable)
EIF DATE: 12/31/77 TERM DATE: 06/30/92
REMARKS: OECD (IEA) R&D Program on the production of hydrogen from water. Activities include: Thermochemical water production, market assessment, and storage, conversion and safety. Participating countries/international organization: Belgium, EEC, Canada, Germany, Italy, Japan, the Netherlands, Sweden, Switzerland, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy (Renewable)
EIF DATE: 12/31/77 TERM DATE: 03/29/96
REMARKS: OECD (IEA) program on small solar power systems (SSPS). Activities include design, construction, and operation