Primer on Education and Training Opportunities for Disaster Managers in the Asia Pacific Region and United States 2003-2004

May, 2005
“The highest priority has to be given to present the various dimensions of disaster risk within a community through structured educational programs and professional training. As peoples' understanding and the exercise of their professional skills are essential components of any risk reduction strategy, an investment in human resources and capacity building across generations will have more lasting value than any specific investment made in technological systems to reduce risks.”

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Executive Summary

Introduction
This Primer is designed to provide the experienced disaster management professional and novice alike with a “healthy overview” of Disaster Management education and training opportunities in the Asia Pacific region and the United States. It is organized into the following five sections:

- Accredited/Formalized Professional Education and Training Resources (International and United States)
- Hawaii-Based Activities
- Online Resources
- Offline Resources
- Related Key Organizations and Initiatives

How to Use this Primer
This primer is intended to be a convenient “entry point” to key resources in the field, not an exhaustive directory of education and training opportunities and related resources. Hyperlinks, when possible, have been provided, to allow readers to quickly access needed material.

We have intentionally included a completely indexed table of contents that can be used as a navigation aid. The reader can search the entire contents easily and efficiently online (once electronically published) and immediately link to any listed resources in the table of contents. The electronic version of this primer can also be used as a starting point for Internet research through the use of the active hyperlinks designated in the body of the report, i.e. by “pointing and clicking.”

Primer Contents
This primer contains information from over 25 training organizations with summary references to approximately 150 available training courses. The hyperlinks allow for easy access to course and training information and other related resources. Online resources include on-line disaster management clearinghouses; user groups, listserves and information networks; and electronic newsletters, including PDC in Print. Offline resources include workshops and roundtables and print resources. Key international organizations are also listed, as well as key initiatives in the disaster management field. Funding institutions that support disaster management activities in Asia are also identified.

How to Add References to this Primer
Please provide corrections, updates, or additions by using the “Feedback” tool on the PDC web site. Edits will be applied to PDC’s online version of this document.

Disclaimer
Please note that organizations’ web sites were used substantially to provide the information contained herein. Accordingly, some language has been directly used to describe agency mission statements, training programs, and related resources of interest to disaster managers. The sole purpose of this primer is to educate interested parties on training and education opportunities. Every attempt was made to include relevant web addresses for the source information, thus, some of addresses may become obsolete as they are updated, changed, or deleted over time.

Research Methodology
This report was developing using primary and secondary research. The main methods and sources used to conduct this research were:

- Direct telephone calls and interviews
- In-person interviews
- Email inquiries
- Internet research
- Books, paper newsletters, and industry literature
- On-line newsletters
- Proceedings from conferences and workshops

**Acknowledgements**

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I. Accredited/Formalized Professional Education and Training Resources

Programs that offer academic-based education and professional training are provided by universities, training centers, and agencies in a more face-to-face traditional classroom setting.

Below are examples of key organizations providing such educational opportunities in Asia Pacific and the United States, respectively.

**Asia Pacific**

American Red Cross (ARC), Mekong River region, Nepal, Vietnam, Cambodia

[www.redcross.org](http://www.redcross.org)

**Summary**

The ARC provides a range of training in the Asia Pacific region, including disaster preparedness at the community level. A primary project interest is the Mekong River, specifically with the Mekong River Commission. ARC is charged with managing flooding impacts and is currently working on a community-based early warning project in the Basin. Other project areas of interest, such as earthquake preparedness and training include:

- Working with the Nepalese Red Cross and the National Society for Earthquake Technology in Nepal to adapt training materials.
- In Vietnam, Developing a school-based curriculum for children and training teachers to implement the program. To date, hundreds of thousands of children have been reached through this project. Training local residents in the Mekong Delta to construct house platforms, as well as house frames of concrete pads, reinforced iron studs, and reinforced flipped metal roofs to speed economic recovery after monsoons and floods.
- In Cambodia, working through a U.S. Agency for International Development/Office of Foreign Disaster Assistance (USAID/OFDA) grant on a preparedness project for areas prone to Mekong flooding. Also, helping the Cambodia Red Cross move information into a national disaster management plan. This program involves community-based exercises based on hazard mapping.

**Asia Foundation, San Francisco, CA , USA**

(Headquarters)

[www.asiafoundation.org](http://www.asiafoundation.org)

**Summary**

The South Pacific Disaster Training Program (SPDTP) is funded by the U.S. Agency for International Development’s Office of Foreign Disaster Assistance (OFDA) and overseen by the Foundation’s Philippines office. Initiated in 1995, the project is aimed at supporting efforts by Pacific Island countries to become self-reliant in disaster management. Programs include OFDA courses to improve the capacity and performance of disaster management agencies and individuals to improve planning and management, to broaden the base of support for disaster management within the region, and to strengthen the capacity of South Pacific countries to institutionalize and/or organize and conduct their own training for disaster management. The program has worked to build the capacities of the National Disaster Management Offices in 13 Pacific Island nations through the training of more than 1,200 participants.

**Training**

- Train the Trainer
- Initial Disaster Assessment Exercise Management
- Basic Disaster Management
- Introduction to Disaster Management, National Level Training (Kiribati, Palau, Samoa)
- Exercise Management (Fiji, Cook Islands, Kiribati, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu)
- Emergency Operations Centers (in collaboration with South Pacific Applied Geoscience Commission’s Disaster Management Unit)

**Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand**

[www.adpcait.ac.th](http://www.adpcait.ac.th)

**Summary**

ADPC is a regional resource center working towards disaster reduction for safer communities and sustainable development in Asia and the Pacific. Established in 1986, the Center is recognized as an important neutral focal point in Asia and the Pacific for promoting disaster awareness and the development of local capabilities to foster disaster management and mitigation policies.

**Training**

Each course is 2 weeks in duration and runs once per year unless otherwise indicated:
Disaster Management (3 weeks)
Community-Based Disaster Risk Management
Earthquake Vulnerability Reduction for Cities
Flood Risk Management
Urban Disaster Management
Public Health and Emergency Management
Recently-developed 1-week/once-a-year courses include:
Disaster Risk Communication
Hospital Emergency Planning
Crisis and Consequence Management
Education and Outreach Efforts
ADPC also sponsors specialized multi-day courses, one example of which is the Fifth Course on Flood Risk Management (FRM-5) that took place in Beijing, China, in September 2003.

Asian Disaster Reduction Center, Kobe, Japan
www.adrc.or.jp

Summary
The Asian Disaster Reduction Center (ADRC) was established in Kobe, Hyogo Prefecture, to facilitate the exchange of disaster reduction experts from countries and concerned bodies, accumulate and provide disaster reduction information, and carry out research into multinational disaster reduction cooperation. The Center provides a website rich with disaster information and links to other organizations in the emergency management field. A key focus is the development of education and training programs and project coordination for education and training programs. Among its many activities are the sponsorship of international workshops and an ongoing electronic forum for the free exchange of ideas.

Training
ADRC maintains a training information database, containing information on training courses from some 60 international organizations.

AusAID, Canberra, Australia
www.ausaid.gov.au

Summary
Australia's Federal government aid agency, AusAID, provides assistance to the region, with funding to both South Pacific Applied Geoscience Commission and the Asia Disaster Preparedness Centre in Bangkok. AusAID recently commenced a program working with five major non-government organizations to provide disaster preparedness training.

Training
AusAID supports training development activities rather than offering specific disaster management training curricula.

Centre on Integrated Rural Development for Asia and the Pacific, Dhaka, Bangladesh (CIRDAP)
www.cirdap.org.sg

Summary
The Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP) in Bangladesh is a regional, intergovernmental and autonomous institution established in 1979 by the countries of Asia and the Pacific region. The Food and Agriculture Organization (FAO) of the United Nations (UN), which had the support of several other UN bodies and donor countries and agencies, such as the Government of Japan and the Swedish International Development Agency, took the initiative for its creation. Member countries of CIRDAP include Afghanistan, Bangladesh (host-state), India, Indonesia, Lao People’s Democratic Republic, Malaysia, Myanmar, Pakistan, Philippines, Sri Lanka, Thailand, and Vietnam.

Emergency Management Australia, Canberra, Australia
www.ema.gov.au

Summary
Emergency Management Australia (EMA) is the federal agency responsible for reducing the impact of natural and man-made disasters on the Australian community. EMA is involved with The Asia Foundation and OFDA in providing disaster management training in the Pacific. The Emergency Management Australia Institute (EMAI), at Mt. Macedon, Australia, is EMA’s research and training center. EMAI conducts education and training activities and provides resource development to support the curriculum and provision of information through the Australian Emergency Management Information Centre.

Training
Contribute to Emergency Risk Management
Emergency Risk Management Phase 1
Emergency Risk Management Phase 2
Design and Manage Activities (Exercise Management)
Coordinate Resources within a Multi-Agency Emergency Response
Course in Evacuation Management
Recovery Management Program (various modules)
Exercise Management Train-the-Trainer
Management of Civil Defence Operations
International Federation of Red Cross and Red Crescent Societies (ICRC)

www.ifrc.org/where/asiapac.asp

Summary
The International Federation of Red Cross works with National Societies to provide disaster management training and other initiatives in support of Red Cross Societies in the Asia Pacific region.

Examples of the National Societies are:
- Cambodian Red Cross, Phnom Penh, Cambodia
- Indonesia Red Cross Society, Jakarta, Indonesia
- Lao Red Cross Society, Vientiane, Lao PDR
- Southeast Asian Delegation, Bangkok, Thailand
- Vietnam National Red Cross Society, Hanoi, Vietnam

International Institute for Disaster Risk Management (IDRM), Manila, Philippines

www.idrmhome.org

Summary
The IDRM promotes international standards and best practices in disaster and risk management, and was established in 1998 at the request of the Philippine Government.

Training
2004 International 2-week courses on (Custom Designed Graduate Certificate Programs) include:
- Local and Community Level Disaster Risk Management
- Executive Development Program for Emergency Managers
- Conflict Prevention, Resolution, Post-Conflict Reconstruction, and Peacebuilding

National Center for Disaster Management (NCDM), New Delhi, India

www.ncdm-india.org

Summary
NCDM was established by the Government of India’s Indian Institute of Public Administration to provide training programs for senior and middle-level administrative government officials in disaster mitigation activities. NCDM coordinates the research activities in different aspects of disaster management at the national level.

Training
Training Programs / Workshops
- Flood Management
- Drought Management
- Urban Risk Reduction
- Information Technology and Disaster Management
- Economic Analysis and Disaster Management
- Flood and Landslide Management
- Earthquake Disaster Mitigation
- Calamity Relief Funding
- Disaster Management
- Disaster Preparedness and Vulnerability Assessment
- Rehabilitation and Reconstruction of Disaster Affected Areas

Rail the Trainer Programs
• Flood Management
• Drought Management
• Disaster Management for Non-Governmental Organizations

National Institute of Rural Development, Hyderabad, India

www.panasia.org.sg/nird/

Summary

National Institute of Rural Development (NIRD) manages training, research, and consultancy in rural India. It operates as an autonomous organization supported by the Government of India’s Ministry of Rural Areas and Employment.

South Pacific Applied Geoscience Commission (SOPAC), Suva, Fiji

www.sopac.org.fj

Summary

Under a mandate from the Pacific Forum, SOPAC is the regional organization responsible for coordination of disaster management in the South Pacific. Its mission is to improve the well being of the peoples of Pacific Island states through the application of geoscience to the management and sustainable development of their non-living resources. SOPAC member countries include: American Samoa, Australia, Cook Islands, Federated States of Micronesia, Fiji, French Polynesia (Associate), Guam, Kiribati, Marshall Islands, New Caledonia (Associate), Nauru, New Zealand, Niue, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, and Vanuatu.

Training

• Managing Community Risk, a course that may become part of a Graduate Certificate in Public Safety and Risk Management in the future.
• Community Risk Programme, a program that undertakes a range of training and advocacy tasks for disaster and risk reduction in the Pacific. The Programme is funded by AusAID, NZAid, and Emergency Management Australia.
• Public Safety Risk Management, developed in conjunction with Queensland Department of Emergency Services, Australia and Swinburne University.

Swinburne University of Technology, Victoria, Australia

www.tafe.swin.edu.au/indsci/dm/centre.html

Summary

The International Disaster Management Centre (IDMC) at the Industrial Sciences Department, Swinburne University of Technology in Victoria, Australia offers a Graduate Certificate and Graduate Diploma in Disaster Management. The University recognizes credits for courses from OFDA and SOPAC.

Training

IMDC’s Graduate Certificate in Disaster Management and Graduate Diploma in Disaster Management are based upon the following modules:

• Perception and Identification of Risk
• Risk Determination and Treatment
• Natural Hazards
• Human and Industrial Hazards
• Emergency Logistics and Evacuation
• Emergency Management and Disaster Recovery
• Disaster Management Research Project
• Disaster Preparedness and Decision-making

United States

FEMA Higher Education Project

There are a vast number of academic courses and programs in the United States in disaster management and emergency preparedness. A complete listing of the U.S.-based certificate and degree programs, as well as individual courses, are listed by the FEMA Higher Educational Project on the FEMA/HEP website:

http://training.fema.gov/emiweb/edu/

These courses are broken down by the following categories:

• Doctoral Level Programs
• Masters Level Programs
• Related Graduate Programs
• Bachelor Degrees - Emergency Management
• Bachelor Degrees - Emergency Management Related
• Associate Degrees - Emergency Management
• Related Associate Degrees
• Bachelor Level Emergency Management Concentrations and Minors
• Stand-Alone Certificates in Emergency Management
• Related Certificate Programs
• Institutions Offering One or More Courses
• Distance Learning
• Programs Being Proposed/Investigated
• Terrorism, Homeland Security, and Homeland Defense Programs
• International Disaster Management, Relief, and
Humanitarian Assistance Programs

U.S. Academic Programs with International Training Programs

A total of eight U.S. academic institutions offer international disaster management and humanitarian assistance programs:

1. Andrews University, Missouri – International Emergency Management Track
2. Harvard School of Public Health and Massachusetts Institute for Technology, Cambridge, Massachusetts – Humanitarian Studies and Field Practice
4. Tufts University, Massachusetts – Masters Degree in Humanitarian Assistance
5. Tulane University, Louisiana – Specialization in Complex Emergencies and Disaster Management.
7. University of South Florida, Florida, Center for Disaster Management & Humanitarian Assistance – Graduate Disaster Management Certificate
8. University of Wisconsin – Disaster Management and Humanitarian Assistance Diploma

U.S. Academic Institutes of Interest

Below is a sampling of institutions actively involved in disaster management programs in the United States:

Global Institute for Energy and Environmental Systems of the University of North Carolina at Charlotte

www.coe.uncc.edu/~hiinyang/GIEES.htm

The Global Institute for Energy and Environmental Systems at the University of North Carolina at Charlotte is a multi-disciplinary institution that aims to: provide quality research experience to students on critical environmental and energy issues through their involvement in cross-disciplinary research; establish collaborations on projects with the private sector, public agencies, community-based organizations and other academic institutions; conduct cross-disciplinary research, and provide technical support to local, state and federal agencies on environmental issues pertinent to energy infrastructure and hazard migration; and operate professional development outreach and technology transfer activities, such as seminar series international conferences, colloquia, and exchange programs.

The Institute does not award degrees but supports regular academic programs within its coverage areas in traditional academic departments, such as Civil Engineering, Geography and Earth Science, Architecture, Chemistry, Biology, Electrical Engineering, Business Administration, Economics and Public Policy. The University of North Carolina at Charlotte was recently selected as the headquarters of International Society of Environmental Geotechnology (ISEG), a growing organization of more than 500 members representing professional leadership in some 50 countries, for which a secretariat is being established at the Cameron Applied Research Center (CARC) building.

Institute for Hazards Mitigation Planning and Research at the University of Washington, Seattle, Washington
deps.washington.edu/mitigate/

The Institute offers three basic courses to University of Washington Graduate students:

- Sustainability through hazards mitigation (a survey course)
- Integrated floodplain management and hazards mitigation
- Hazards mitigation study

The University is developing an online Masters program in Critical Infrastructure, and has written curriculum for the Introductory Course as well as a course on Continuity of Operations. The Director of the Institute was awarded a grant to develop a Higher Education Course on floodplain management.

The Institute is working with the University of Washington Sustainability project and is on the University of Washington’s Emergency Management Council. The Institute is also partnering with the National Aeronautics and Space Administration in a remote sensing grant with Washington Emergency Management to develop a hazard forecast model.

Institute for Crisis and Disaster Management, Research, and Education at George Washington University, Washington, D.C.
www.gwu.edu/~icdrm

In August 1994, George Washington University established an Institute for Crisis and Disaster Management, Research, and Education. GWU’s School of Engineering and Applied Science, Medical School, Elliott School of International Affairs, and Columbian School of Arts and Sciences sponsor the Institute. Its objective is to support the emergency and crisis management activities of federal, state, private, and non-profit organizations by studying disaster planning, management, and decision making and promoting the transfer of knowledge to decision makers. The Institute is currently teamed with several other regional and national institutions in conducting disaster and risk management research and analysis.

Institute for Disaster Research, Texas Tech
The Institute for Disaster Research was founded in 1972 with the goals of providing an environment for multidisciplinary research among Texas Tech faculty, staff, and students directed toward the mitigation of deaths, injuries, and property damage from natural disasters. Of particular interest is the performance of buildings in high winds, including hurricanes, tornados, and other extreme winds. Studies of windstorm damage over a period of years have led to a comprehensive understanding of building behaviour.

The Environmental Policy Group (EPG) within MIT's Department of Urban Studies and Planning is focused primarily on training students for careers in the public and not-for-profit sectors worldwide. EPG's emphasis on environmental planning builds upon the faculty's extensive experience in the world-at-large. Both research and teaching focus on a range of issues, such as pollution prevention, technology innovation, and toxic and hazardous waste reduction. Students explore the scientific and organizational complexities they will face during their careers. Research and teaching cover issues, such as the formulation of more sensible regulatory strategies, strategies for achieving environmental justice, and the problems of enforcement in a global context.

The Natural Hazards Center is a national and international clearinghouse for information on natural hazards and human adjustments to hazards and disasters. The Center's primary goal is to increase communication among hazard and disaster researchers and individuals, agencies, and organizations that are actively working to reduce disaster damage and suffering. The Center’s four principal areas of focus are:

- Information Dissemination
- Annual Workshops
- Research
- Library Services

The University of Delaware’s Disaster Research Center (DRC)

The University of Delaware’s Disaster Research Center conducts field and survey research on group, organizational, and community preparation for, response to, and recovery from natural and technological disasters and other community-wide crises.

Federal Agencies

Multiple training courses are offered by federal agencies dealing with issues related to emergency management, the primary institution for which is FEMA’s Emergency Management Institute. Extensive training course offerings run throughout the year, and a full listing of their programs can be found on the Internet at www.fema.gov/emi.

State Agencies

Emergency management agencies at the state level offer training courses to local jurisdictions, as well as other state officials regarding issues related to emergency management. A complete listing of state emergency management offices can be found on FEMA’s web site, www.fema.gov/fema/statedr.shtm. One state-run institution of note is the California Specialized Training Institute, which offers a wide array of training courses.
II. Hawaii-Based Activities

Overview

The following organizations located in the Hawaii reflect activities and interests for disaster reduction activities that extend beyond the geographical boundaries of the state of Hawaii to the entire Asia Pacific region.

Pacific Disaster Center (PDC)

Summary

www.pdc.org

The Pacific Disaster Center fosters disaster-resistant communities through information, science, and technology. PDC’s mission is to provide applied information research and analysis support for the development of more effective policies, institutions, programs, and information products for the disaster management and humanitarian assistance communities of the Asia Pacific region and beyond.

PDC’s five program areas are: decision and policy support, risk and vulnerability, humanitarian assistance support, institutional capacity development, and security and sustainability.

Training

PDC offers one- to four- day training courses in conjunction with other formal training programs and special events in the Asia Pacific region, including at the East-West Center in Honolulu. Examples include:


- A one-day Risk and Vulnerability Assessment short course and a Natural Hazard Mitigation Workshop as part of international conferences in 2003 and 2004.

- A planned Risk and Vulnerability Assessment short course with the South Pacific Applied Geosciences Commission’s annual Pacific Island meeting in Papua New Guinea in June 2005.

- An East-West Center/PDC 4-day curriculum as part of the East-West Center’s Building the Foundation: Leadership Development Program for Pacific Resource Managers. PDC participated in the ongoing Leadership Seminar For Pacific Island Disaster Managers: Disaster Risk Reduction for Sustainable Island Development, which included:

- 2-day course: Pacific Island Water Resource Managers, July 2004

- 4-day course: Pacific Island National Disaster Management Offices, October 2004, curriculum available (add link).

- A U.S. Study Tour for International Training Leaders - In June 2004, PDC hosted an eight-day U.S. Study Tour for disaster management training leaders. The tour included representatives from the Philippines National Defense Coordinating Council, the Asia Disaster Preparedness Center, and the East-West Center. The tour was comprised of two “legs” – an education and training policy forum hosted by PDC in Maui, and a trip to attend the Federal Emergency Management Agency’s Higher Education Annual Conference in Emmitsburg, Maryland.

East-West Center

http://www.eastwestcenter.org/edu-ov.asp

International and intercultural education have been central to the mission of the East-West Center since its inception. The Education Program offers a range of educational opportunities that seek to build a sense of community in the Asia-Pacific region. The Program supports degree study at the University of Hawai’i as well as programs for professionals and educators. A distinctive aspect of the Center's educational program is its emphasis on the value of international dialogue on regional issues and common problems. The pursuit of knowledge in specific fields is enhanced through activities that foster understanding across disciplinary, cultural and national boundaries.

The East-West Center’s Building The Foundation Program assists developing countries in the Asia Pacific in building stronger communities through the effective management of natural resources.

Center of Excellence in Disaster Management and Humanitarian Assistance

http://www.coe-dmha.org/

Summary

The Center of Excellence in Disaster Management and Humanitarian Assistance (COE) provides scholarly and operational expertise through an adjunct international faculty recognized for global experience in regional and humanitarian operations. COE facilitates conferencing, training programs, curriculum development, operational research, and an education-based electronic information network. COE also specializes in sponsoring international conferences and workshops.

Training
• Health Emergencies and Large Populations (HELP)

• Combined Humanitarian Assistance Response Training (CHART) which combines formal education with hands-on experience. CHART addresses fundamentals of working humanitarian operations.

University Of Hawaii
http://www.socialsciences.hawaii.edu/

Summary
Staff in the College of Social Sciences in the University of Hawaii at Manoa have developed an interdisciplinary Disaster Management Humanitarian Assistance Graduate Certificate Program that is in the process of major expansion. The program was launched in the Spring of 2000 and has enrolled more than 75 graduate students in one or more of its courses.

Training
The current DMHA graduate certificate focuses on students already enrolled in accredited graduate programs at UH. Teaching staff includes faculty from law, psychology, political science, nutrition, public health, geography, and medicine, together with field professionals, United Nations and other key international agency experts. Successful completion of the DMHA Certificate program requires a minimum of five courses (15 credits), including the two foundation courses (6 credits). The three courses (9 credits) needed beyond the foundation courses are selected on a multi-disciplinary basis from among the UH offering, in consultation with an advisor.

At the University of Hawaii at Hilo, there is continued interest in developing an Undergraduate Certificate and Degree in Natural Hazards as soon as funding can be secured. The potential is great because UHH is home to experts in the study of volcanoes, earthquakes and tsunamis as well as the sociology of disasters and disaster mental health. They have developed working partnerships with and act as consultants to external organizations such as Hawai’i Volcano Observatory, the Pacific Hurricane Center, the Pacific Tsunami Warning Center, the National Weather Service, the American Red Cross, and numerous other related institutions. Existing courses at UH-Hilo will provide the curriculum for both the certificate and degree. They include courses in Agriculture, Anthropology, Chemistry, Communication, Economics, English, Geography and Environmental Studies, Geology, Health and Physical Education, History, Management, Marine Science, Occupational Safety and Health, Natural Resources, Philosophy, Physics, Political Science, Psychology, Religious Studies, Sociology, and Women’s Studies.
III. Online Resources

Online Courses

FEMA/Higher Education Project Clearinghouse

FEMA’s Higher Education Project web site [http://training.fema.gov/emiweb/edu/](http://training.fema.gov/emiweb/edu/), includes a detailed list of online courses and the institutions that offer them.

Online Disaster Management Clearing Houses

AlertNet

[www.alertnet.org](http://www.alertnet.org)

AlertNet provides daily global news, communications, and logistics services to the international disaster relief community and the public. Non-governmental aid agencies working in international relief can access additional reference material, a more extensive news feed, and an area to exchange information between professionals. AlertNet is funded and run by Reuters Foundation.

Digital Library for Earth Science Education (DLESE)

[www.dlese.org](http://www.dlese.org)

The Digital Library for Earth System Education (DLESE) is a grassroots community effort involving educators, students, and scientists aimed at improving the quality, quantity, and efficiency of teaching and learning about the Earth system at all levels. The web site lists a large array of disaster-oriented materials for classroom use.

Disaster Relief

[www.disasterrelief.org](http://www.disasterrelief.org)

Disaster Relief is a daily news site providing information about disasters world-wide, and is a cooperative effort between the American Red Cross, CNN Interactive, and IBM. Disaster Relief’s Mission is to help disaster victims and the disaster relief community worldwide by facilitating the exchange of information on the Internet.

InterAction

[www.interaction.org](http://www.interaction.org)

InterAction is the largest alliance of U.S.-based international development and humanitarian nongovernmental organizations, with more than 160 members operating in every developing country. InterAction’s web site includes field reports from members in disaster areas throughout the world.

Island Vulnerability

[www.islandvulnerability.org](http://www.islandvulnerability.org)

This site lists a sample of websites, sources, and initiatives related to disaster management and development. There are direct links to the Pacific Islands page and to a New Zealand / Aotearoa page.

ReliefWeb

[www.reliefweb.int](http://www.reliefweb.int)

ReliefWeb is the result of a project of the United Nations Office for the Coordination of Humanitarian Affairs (OCHA). The goal of the project is to strengthen the response capacity of the humanitarian relief community through the timely dissemination of reliable information on response, preparedness, and disaster prevention. Materials available through ReliefWeb include time-critical reports, maps, and 100,000 documents supplied by some 500 sources. ReliefWeb is the largest source for humanitarian response information on the Internet.

Thoughtweb

[http://www.thoughtweb.com/relief](http://www.thoughtweb.com/relief)

The new website, launched in 2005, is the result of a collaborative agreement between the Pacific Disaster Center and Australia-based ThoughtWeb Inc., a corporation that helps large organizations improve their decision-making ability by coordinating information derived from multiple sources. Using ThoughtWeb Relief, disaster relief experts are better prepared to collect, interpret and prioritise information used in decision-making.

United Nations Documents Related to Disaster Reduction

[www.unisdr.org](http://www.unisdr.org)

This publication comprises a range of UN documents related to disaster reduction, including General Assembly resolutions and decisions, Economic and Social Council resolutions, Reports of the Secretary-General, and other documents on disasters and relevant issues.

Users Groups, Listserves, and Information Networks

The following are disaster mitigation-related examples of key user groups and listserves.

Asian Disaster Reduction and Response Network (ADRRN)

[http://html.adrc.or.jp/dbs/ngo](http://html.adrc.or.jp/dbs/ngo)

This electronic forum was developed by ADRC in order to facilitate the free exchange of ideas and information, as well as the sharing of resources among the network members. It is a result of the ADRC and the Asian Disaster Response Unit of Office for the Coordination of Humanitarian Affairs in Kobe (ADRU/OCHA Kobe)’s co-Regional Workshop on Networking and Collaboration among Non-Governmental Organizations of Asian Countries in Disaster Reduction and Response.
Global Disaster Information Network
www.gdin.org

Global Disaster Information Network (GDIN) is a voluntary, independent, self-sustaining, non-profit association of nations, organizations, and professionals with an interest in sharing disaster information. It is committed to assisting disaster managers find the information they need, to foster the development of new disaster information technologies, and to foster professional development. GDIN is available primarily to assist in any natural or technological disasters. It also can help in complex humanitarian emergencies; but it is politically neutral.

HAZUS Users Group
www.hazus.org

The mission of Hazards U.S. (HAZUS) Users Group is to focus on the promotion and development of applications based on the FEMA/National Institute of Building Sciences HAZUS software. The Users Group addresses technical requirements for using HAZUS and works to educate the disaster management community, industry, government, and the public regarding the technologies involved in, and potential uses for, and benefits of HAZUS.

Pacific Northwest National Laboratory's Risk Analysis Discussion List (RISKANAL)
Send e-mail to: lyris@lyris.pnl.gov

Established by the Pacific Northwest National Laboratory and the Columbia-Cascades Chapter of the Society for Risk Analysis as a service to the international risk analysis community, RISKANAL is a discussion list focused on risk analysis.

Risk-com Discussion List
Send e-mail to: owner@listserv.itd.umich.edu

This list provides an open forum for the posting and discussion of news and information relating to risk management. The list owners are affiliated with the University of Michigan.

The Emergency Information Infrastructure Project (EM Forum)
www.emforum.org

The Emergency Information Infrastructure Project is a non-profit educational organization, dedicated to enhancing the practice of emergency management through offering professional development opportunities to practitioners and other interested persons. The EM Forum’s "Virtual Forum" is a real-time chat session among experts in their fields.

United Nations Humanitarian Information Network
www.reliefweb.int/hin

The Humanitarian Information Network (HIN) web site is facilitated by the United Nations Office for the Coordination of Humanitarian Affairs, ReliefWeb, and OCHA Field Information Support Unit. The web site serves as a forum for sharing information on new initiatives related to: humanitarian information best practices; lessons learned; standards and operating principles; humanitarian web sites (including global, field and humanitarian information center web sites); database and web-based information management tools; related new technologies; and notices on upcoming events and publications of interest. The site also hosts the HIN quarterly e-newsletter and archives.

Electronic Newsletters

Examples of relevant electronic newsletters include:

Disaster Mitigation in Asia
www.adpc.ait.ac.th/infore/newsletter/newsletter.html

 Authored by ADPC, this e-newsletter shares updates on disaster mitigation in Asia, including the latest information sources and analytical accounts of new approaches and methodologies for disaster risk reduction, as well as updates on projects, conferences, training courses and workshops in the Asian Disaster Preparedness Center, in Asia, and around the globe.

Disaster Reduction and Climate Change Infolink
Send e-mail to: DRCCinfolink@un.org.

The main focus of the DR+CC Infolink is on the relationship between disaster risk reduction and climate change adaptation. DR+CC Infolink provides information on key issues, upcoming events, publications, and web site links.

Earthquake Quarterly
www.wsspc.org/pubs/news/

Earthquake Quarterly is a publication from the Western State Seismic Policy Council providing updates on events, issues and policies.

ISDR Highlights
www.unisdr.org

ISDR Highlights is a monthly email update on current news in disaster reduction published by the International Strategy for Disaster Reduction (UN/ISDR). Subscriptions can be sent via e-mail, and newsletters can be accessed from the web site.

PDC-in-Print
http://www.pdc.org/inPrint.php
PDC-in-Print is a quarterly newsletter published by the Pacific Disaster Center that provides information on PDC’s major activities—covering developments with its international disaster mitigation projects, its direct support to the State of Hawaii, and its outreach efforts. The publication provides an electronic interface to resources including the PDC public website, web articles, and its latest publications.

Additional key electronic newsletters include:

- Japan International Cooperation Agency Newsletter www.jica.go.jp
- HIN quarterly e-newsletter: www.reliefweb.int/hin

**Online symposia**

The virtual conference, often described as an online, symposium, can also be thought of as an “electronic town hall” meeting.

The U.S.-based Emergency Information Infrastructure Project (EIIP)’s Virtual Forum, [http://www.emforum.org](http://www.emforum.org) provides ongoing information through a listserv and by sponsoring symposia on a wide range of Disaster Management issues.
IV. Offline Resources

Workshops and Roundtables

The Disasters Roundtable
dels.nas.edu/dr/f9.html

Organized by the National Academy of Sciences, the Academy Roundtable is an ongoing exchange among academics and practitioners in disaster management. The roundtable seeks to facilitate and enhance communication and the exchange of ideas among scientists, practitioners, and policymakers concerned with urgent and important issues related to natural, technological, and other disasters.

Roundtable meetings are held three times a year in Washington, D.C. Each meeting is an open forum focused on a specific topic or issue designated by the Disasters Roundtable Steering Committee. A particular focus for the roundtable is to obtain critical disaster reduction information required to make informed decisions at all levels from the local level to international, and from response to long-term mitigation.

Natural Hazards Workshop, Boulder, Colorado, USA, July (annual event)

The Natural Hazards Workshop is a high profile, invitation-only annual event focused on creating dialogue between those involved in hazards research and applications. The Workshop, which has taken place for the last 28 years, brings together practitioners with the academic research community to address issues of disasters and hazards reduction.

Print Resources

Print Journals

Natural Hazards Observer

The monthly publication from the Natural Hazards Center provides widespread and in-depth exposure to international issues pertaining to the full range of loss reduction issues, policies, activities, and upcoming events.

Reports and Handbooks

The following are sample key international reports providing large-scale research, perspectives, and data on disaster issues:

- Living With Risk, International Strategy for Disaster Reduction
- World Disasters Report, International Federation of the Red Cross and Red Crescent Societies
- Reducing Disaster Risk, United Nations Development Program
- World Vulnerability Report, United Nations Development Program
- Risk Communication Strategy Guidelines, Asian Disaster Preparedness Center
- Handbook on Disaster Communications for Developing Countries, United Nations Office for the Coordination of Humanitarian Affairs
- The Handbook of the Sphere Humanitarian Charter and Minimum Standards, Sphere Project
V. Related Key Organizations and Initiatives

Key Organizations

There are a multitude of organizations that are critical players in the Asia Pacific Disaster Management field that do not offer formal education and training, but are crucial to gaining a comprehensive framework for the region.

ASEAN Committee on Disaster Management (ACDM)
http://www.acdm.net/

In 1971 disaster management experts in the ASEAN Region formed the ASEAN Expert Group on Disaster Management (AEGDM) and met every two years. Five years later, the issue of regional cooperation in the field of disaster management was adopted to be one among ASEAN objectives and principles stipulated in the declaration of ASEAN Concord-I. This was further operationalized into the ASEAN Declaration on Mutual Assistance on Natural Disasters in June 1976.

The 12th Meeting of the ASEAN Experts Group on Disaster Management (AEGDM), held on 16-18 September 2002 in Vietnam, agreed to restructure the AEGDM into an ASEAN Committee on Disaster Management (ACDM). To intensify ASEAN cooperation in disaster management, the Committee also decided to meet annually instead of once every two years.

The ASEAN Regional Programme on Disaster Management (ARPDM) has been adopted. It was formulated with the assistance of the Asian Disaster Preparedness Centre (ADPC). Under the ARPDM, cooperation among the Member Countries will cover capacity building, sharing of information and resources, engaging external partnerships, and public education, awareness and advocacy in disaster management.

In the process, the ACDM has also been consolidated through series of regional workshops supported by the United Nations High Commissioner for Refugees (UNHCR) during its formative phase.

Earthquake Disaster Mitigation Research Center (EDM), Miki, Japan
www.edm.bosai.go.jp

The main purpose of the EDM is to produce “Frontier Research on Earthquake Disaster Mitigation for Urban Regions.” Major research activities are performed by three research teams: the disaster process simulation team, the disaster information system team, and the structural performance team.

International Association of Emergency Managers (IAEM)
www.iaem.com

IAEM is a non-profit educational organization dedicated to promoting the goals of saving lives and protecting property during emergencies and disasters.

Mekong River Commission (MRC)
www.mrcmekong.org

MRC promotes and coordinates sustainable management and development of water and related resources among countries bordering the Mekong River in Southeast Asia.

Philippine Institute for Volcanology and Seismology (PHIVOLCS)
www.phivolcs.dost.gov.ph

The primary goal of PHIVOLCS is to formulate comprehensive disaster preparedness and risk reduction plans for volcanic eruptions, earthquakes, and related events. The Institute also offers the public education on volcanology, earthquakes, and seismology.

ProVention Consortium
www.proventionconsortium.org

Established in 2000 under the World Bank’s Disaster Management Facility, the ProVention Consortium is a coalition of governments, international organizations, academic institutions, the private sector and civil society organizations working toward preparedness and disaster mitigation in developing countries. The Consortium serves as a network for knowledge sharing.

To date, ProVention has produced a number of methodologies and tools for identifying hazards and vulnerabilities and assessing the potential socio-economic impact of disaster events. In April 2003, the ProVention Consortium moved its secretariat from the World Bank to the International Federation of Red Cross and Red Crescent Societies.

The International Emergency Management Society (TIEMS)
www.tiems.org

TIEMS focuses on the transfer of technology in providing emergency managers with decision support tools; provides a forum for policy guidance to governmental bodies concerning the management of emergencies; tracks best practices in emergency management worldwide; and makes a multi-disciplinary approach to tackling emergencies (e.g., using technologies from various diverse fields, such as simulation, operations research,
knowledge based systems, decision support systems, information systems, psychology and other behavioural sciences).

United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA)

OCHAOline.un.org

OCHA is the United Nation’s emergency response coordinating office, succeeding the UN Department of Humanitarian Affairs in 1998. OCHA provides assistance by coordinating international humanitarian response, providing the humanitarian community with policy support, and advocating on humanitarian issues.

World Bank / Disaster Management Facility

www.worldbank.org/dmf

The World Bank plays a key role in providing assistance to prepare for and recover from natural or man-made disasters. Within the World Bank, the Disaster Management Facility specifically addresses this issue. Some of the primary funding from the World Bank is geared toward technical assistance and reconstruction.

The World Bank provides technical support and guidance to member countries and to World Bank staff in operations on lending and on the preparation of Country Assistance Strategies and Economic and Sector Work to reduce risks from natural and technological disasters.

Additional key organizations active in the Asia Pacific region include:

- Center for Natural Disaster Studies, Yogyakarta, Indonesia
- Centre for Disaster Reduction, University of Papau New Guinea
- Centre for Hazard and Risk Management, Sydney, Australia
- Council of Regional Organizations of the Pacific, Sydney, Australia
- Disaster Prevention Research Institute, Kyoto, Japan
- Research Center for Disaster Reduction Systems at Kyoto University, Kyoto, Japan
- South Pacific Regional Environment Program, Apia, Samoa
- United Nations Educational Scientific and Cultural Organization
- United Nations Development Program
- United Nations Economic and Social Commission for Asia and the Pacific, Bangladesh

Key Initiatives in the Disaster Management Field

The following are a sampling of key initiatives that have significant implications for the Disaster Management field in general.

Committee on Earth Observation Satellites

www.ceos.org

The Committee on Earth Observation Satellites (CEOS) is a committee of international governmental agencies responsible for civil Earth Observation (EO) satellite programs, along with agencies that receive and process data acquired remotely from space. For approximately five years, the Disaster Management Support Group (DMSG) functioned within the CEOS to bring forth requirements relative to the disaster management community.

Earthquake Megacities Initiative (EMI)

www.megacities.physik.uni-karlsruhe.de

The Earthquakes and Megacities Initiative (EMI) is an international non-profit organization focused on earthquake preparedness, mitigation and recovery of large urban areas (also known as megacities). EMI provides scientific and technical knowledge to end-users and also helps develop capacity in megacities of the developing world.

Earthscope

www.earthscope.org

Earthscope is an educational and research initiative to apply modern observational, analytical, and telecommunications technologies to investigate the structure and evolution of the North American continent and the physical processes controlling earthquakes and volcanic eruptions. It is expected that Earthscope will contribute to the mitigation of risks from geological hazards, development of natural resources, and the public’s understanding of earth and natural disaster risk.

EqTAP (Development of Earthquake and Tsunami Disaster Mitigation Technologies and their Integration for the Asia-Pacific Region)

www.edm.bosai.go.jp/eqtap/default.htm

EqTAP is a Japanese organization which is a subdivision of the Earthquake Disaster Mitigation Research Center and the National Research Institute for Earth Science and Disaster Prevention (NIED). EqTAPS objectives are: 1) Development of disaster mitigation technologies for geo-hazard, civil infrastructures and building structures; 2) Development of urban earthquake risk assessment and management systems; 3) Understanding and evaluation of regional characteristics of damage; and 4) Formulation of
a master plan for earthquake and tsunami disaster mitigation.

Integrated Global Observing Strategy
www.igospartners.org

Integrated Global Observing Strategy (IGOS) is a partnership among international organizations, the space agencies, funding agencies, the scientific community, and international research programs to plan and coordinate observations of the planetary environment from space and on the ground.

International Disaster Response Law Project
www.ifrc.org/what/disasters/idrl/

As part of the IFRC, International Disaster Response Law Project covers rules and practice relating to international disaster response from a legal perspective. Recent activities of the Project include the IDRL Writers Meeting, held in Geneva in May 2003, which brought together a range of experts from the academic, government, and disaster response fields—both from within and external to the International Red Cross and Red Crescent Movement. Many of the participants were conducting research and preparing papers to include in the International Federation's publication on IDRL, due released in 2003.

International Strategy for Disaster Reduction
www.unisdr.org

The ISDR aims at building disaster resilient communities by promoting increased awareness of the importance of disaster reduction as an integral component of sustainable development, with the goal of reducing human, social, economic, and environmental losses due to natural hazards and related technological and environmental disasters. The ISDR combines the strengths of many key players through the Inter-Agency Task Force on Disaster Reduction and the Inter-Agency Secretariat of the ISDR (UN/ISDR).

The UN/ISDR is the focal point in the UN System to promote links and synergies between, and the coordination of, disaster reduction activities in the socio-economic, humanitarian and development fields, as well as to support policy integration. It serves as an international information clearinghouse on disaster reduction, developing awareness campaigns and producing articles, journals, and other publications and promotional materials related to disaster reduction. The UN/ISDR headquarters is based at the Palais des Nations in Geneva. It conducts outreach programmes through its regional units in Costa Rica and Kenya.

ISDR's 2003 World Disaster Reduction Campaign

This campaign explores ways of coping with hydrometeorological hazards, such as floods, droughts, landslides, tropical cyclones, hurricanes, and typhoons. The slogan for the campaign is "Turning the Tide" and reflects the campaign’s aim to change common perceptions and attitudes towards the impact of hydrometeorological disasters on communities and the importance of incorporating disaster reduction as a component of sustainable development.

Natural Hazards Caucus Work Group
www.agiweb.org/workgroup/

Based in the United States, the Natural Hazards Caucus Work Group aims to develop a wider understanding within the U.S. Congress that reducing the risks and costs of natural disasters is of public value. The group educates members and staff about the costs of natural disasters to their districts and states and the benefits their constituents will realize through greater efforts to understand, prevent, and mitigate natural disasters.

Natural Hazards Project
www.oas.org.nhp

The Natural Hazards Project (NHP), a division of the Unit for Sustainable Development and Environment (USDE) of the Organization of American States (OAS), lends support to the member states of the OAS to assess their vulnerability to natural hazards and mitigate the effects of disasters. Its activities include technical assistance, training, and technology transfer through intervention in development planning and project formulation. Among its current areas of interest are floods, school buildings, and transportation corridors. A full list of projects is presented in the NHP Catalogue.

Pacific Emergency Management Training Advisory Group

Pacific Emergency Management Training Advisory Group (PEMTAG) is a group comprised of SOPAC, The Asia Foundation, OFDA, UNOCHA, and IFRC. It serves as a focal point for organizations wishing to provide training in the Pacific, to ensure coordination and avoid duplication.

Subcommittee on Disaster Reduction
www.sdr.gov

Chartered in 1988, the Subcommittee on Disaster Reduction (SDR) aims to ensure that science and technology are used effectively in reducing disaster risks and losses. SDR provides a forum for government leaders to exchange information and expertise and to formulate science- and technology-based guidance for policy makers. The SDR’s 2003 publication, “Reducing Disaster
Vulnerability Through Science and Technology” under the auspices of the President’s National Science and Technology Council, report identifies several important themes relevant to disaster reduction and discusses resources, opportunities, and gaps.

School Safety Initiatives in Asia

There have been a number of initiatives to make schools safer and, simultaneously, to use them as the place to promote awareness on earthquake safety. The following are examples of the different initiatives in the Asia Pacific region:

- In India, the Sustainable Environment and Ecological Society has begun the Earthquake Safety Initiative (www.seedsindia.org).
- In Bandung, Indonesia, the Institute of Technology Bandung has led the process of incorporating earthquake safety in schools through teacher training, now institutionalized within the Ministry of National Education.
- In Katmandu, Nepal, the National Society for Earthquake Technology pioneered a comprehensive School Earthquake Safety (SES) Program that includes school retrofitting and reconstruction, masons training, and earthquake preparedness planning through the SES program committee represented by teachers, students, parents, masons and government officials (www.nset.org.np).
- In India, Japan, Nepal, and Turkey, the United Nations Center for Regional Development is supporting a number of SES initiatives (www.uncrd.org).

Key Funding Institutions for Disaster Management Activities in Asia

Donor organizations are also a vital source of information when assessing the Asia Pacific disaster management community. Although identifying primary funding organizations is a difficult task, three primary donor countries are prominent in supporting regional disaster management initiatives: Japan, Australia, and the United States. Following these three countries are the European communities, most notably Denmark and the Netherlands. International organizations, such as the World Bank, also play major financial support roles through contracted projects.

Funding is primarily provided through donations to national governments and nongovernmental organizations. UN OCHA’s ReliefWeb, (described above) offers Financial Tracking System for donations by donor and project and/or emergency.

The following are examples of key donor institutions:

Asian Development Bank
www.adb.org

The Asian Development Bank (ADB) assists in post-disaster rehabilitation efforts, as well as pre-disaster mitigation and capacity building, for member countries. One example is a 1999 project in which the ADB provided Technical Assistance for a project implemented by ADPC to promote disaster reduction measures for future crises in India.

Government of Japan / Japan International Cooperation Agency
www.jica.go/english

The Japan International Cooperation Agency (JICA), established in 1974 as an independent administrative institution of the Government of Japan, is actively involved with disaster-related projects throughout the Pacific Rim. Its areas of focus are:

- Capacity Building
- Millennium Development Goals
- Technical Training
- Expert Dispatch Program
- Disaster Relief
- Grant Aid
- JICA Partnership Program (JPP)

The major portion of bilateral grants is undertaken by JICA, while the Overseas Economic Cooperation Fund (OECF) of Japan is in charge of bilateral loans. Overseas Disaster Assistance from the government of Japan comprise three main categories:

- Bilateral Grants (Grant Aid and technical Cooperation);
- Bilateral Loans (Loan Assistance, generally known as "Yen Loans"); and
- Contributions and subscriptions to multilateral donor organization.

International Development Association
www.worldbank.org/ida/

The International Development Association (IDA) provides long-term loans at zero interest to the poorest developing countries. IDA helps build the human capital, policies, institutions, and physical infrastructure that these countries urgently need to achieve faster, environmentally sustainable growth. IDA’s goal is to reduce disparities across and within countries, especially in access to primary education, basic health, and water supply and sanitation to bring more people into the mainstream by raising their productivity.

ProVention Consortium
www.proventionconsortium.org
ProVention is piloting a grants program for applied research in disaster risk reduction to support the professional growth of young professionals in developing countries, including many from the Asia Pacific region. Grants of $5,000 each are awarded to individuals whose proposals focus on: 1) hazard and risk identification; 2) risk reduction; and 3) risk sharing and transfer. The Disaster Management Center of the University of Wisconsin-Madison is assisting to administer the program.

U.S. Agency for International Development (USAID)/Office of Foreign Disaster Assistance (OFDA)

www.usaid.gov

USAID is the main funding institution in the U.S. In fiscal year 2001, OFDA provided $227 million internationally for emergency response, mitigation, and preparedness. In the first quarter of 2003, USAID/OFDA donated $4.3 million for disaster preparedness projects in Asia and had earmarked another $1.8 million for the rest of the fiscal year. Overall, the OFDA dollar amounts are small in comparison to other bilateral donors.

OFDA work is divided into two components: response/immediate relief and PMP (Prevention, Mitigation, and Preparedness).

In a typical year, OFDA will respond to 65 to 70 disasters worldwide and approximately 15 to 17 in Asia. The majority of the disaster declarations – about 80% – are for natural events; others are for “complex emergencies,” which also encompass conflicts and displacements. Most funding is on a case-by-case basis; Nepal and Indonesia are the only two ongoing funding situations.

Most of OFDA’s longer-term relationships with partners are through preparedness projects. Most preparedness efforts, such as flood forecasting and early warning, which are greatly needed in Asia, require an investment of two to five years.

OFDA is more oriented to immediate and short-term projects. Its focus areas include preparedness, flood forecasting and early warning, as well as applications of research.

USAID sponsors a wide range of training programs including:

- Asian Urban Disaster Mitigation Program
- Program for the Enhancement of Emergency Response
- South Pacific Disaster Training Program
- Extreme Climate Events Program
- Climate Forecast Applications
- Strengthening of Local Earthquake Monitoring Efforts
- India Earthquake Safety Initiative
- Incident Command System Training
- Regional Flood Forecasting Forums
- Flood Forecasting in Bangladesh

World Bank

www.worldbank.org

Along with the Asian Development Bank, the World Bank supports a large number of projects for disaster recovery and reconstruction in Asia. One recent project the World Bank funded was a U.S. $442.8 million credit for the second phase of the ongoing Gujarat Emergency Earthquake Reconstruction Program in India. The credit was a planned follow-up to the emergency assistance of U.S. $261.6 million provided immediately after the earthquake, aimed at completing ongoing reconstruction and enhancing future disaster preparedness. The World Bank will finance the continuation of assistance to both large towns and small villages, whose citizens’ lives were devastated by the 2001 earthquake.

Other Asia Pacific Funding Institutions for Disaster Management

Other funding organizations active in disaster in the Asia Pacific region:

- Emergency Management Australia
- Australian Agency for International Development
- Danish International Development Assistance
- European Commission Humanitarian Aid Office
- Federal Emergency Management Agency
- International Federation of Red Cross/Red Crescent
- International Strategy for Disaster Reduction
- Netherlands Ministry of Foreign Affairs
- NZ Aid (New Zealand’s International Aid and Development Agency)
- The Organization for the Petroleum Exporting Countries Fund
- United States Geological Survey’s Volcano Disaster Assistance Program
- National Library of Medicine, the National Institute of Mental Health, and the National Institute of Biomedical Imaging and Bioengineering