

Reports by UNESCO's Water-related Centres (category 1 and 2) on activities related to the IHP in the period July 2006 – May 2008

1. Basic information on the centre

Name of the Centre		ICHARM (International Centre for Water Hazard and Risk Management)
Name of Director		Kuniyoshi TAKEUCHI
Name and title of contact person (for cooperation)		Akira TERAKAWA, Deputy Director of ICHARM
E-mail		terakawa@pwri.go.jp
Address		1-6 Minamihara Tsukuba, Japan
Website		http://www.icharm.pwri.go.jp
Location of centre		city/town : Tsukuba country : Japan_
Geographic orientation *		<input checked="" type="checkbox"/> global <input type="checkbox"/> regional
Year of establishment		March 2006
Themes	Focal Areas ♦	<input type="checkbox"/> groundwater <input type="checkbox"/> urban water <input type="checkbox"/> arid / semi-arid zones <input type="checkbox"/> humid tropics <input checked="" type="checkbox"/> drought and floods <input type="checkbox"/> sediment transport and management <input type="checkbox"/> water and environment <input type="checkbox"/> ecohydrology <input type="checkbox"/> water law and policy <input type="checkbox"/> transboundary river basins/ aquifers <input type="checkbox"/> IWRM <input type="checkbox"/> global and climate change <input type="checkbox"/> mathematical modelling <input type="checkbox"/> social and cultural dimensions of water <input type="checkbox"/> water education <input checked="" type="checkbox"/> other: (please specify) water related disaster management
	Scope of Activities ♦	<input type="checkbox"/> vocational training <input type="checkbox"/> postgraduate education <input type="checkbox"/> continuing education <input checked="" type="checkbox"/> research <input checked="" type="checkbox"/> institutional capacity-building <input type="checkbox"/> advising/ consulting <input type="checkbox"/> software development <input checked="" type="checkbox"/> other: (please specify) information networking
Support bodies ¹		Government of Japan
Hosting organization ²		Public Works Research Institute (PWRI)
Sources of financial support ³		Government of Japan (mostly)
Existing networks and cooperation ⁴		International Flood Initiative (IFI)
Governance		<input type="checkbox"/> director and governing board <input checked="" type="checkbox"/> other: (please specify) Chief Executive of PWRI Link to election of board members to the IHP IGC and hosting country IHP National Committee <hr/> Frequency of meetings: once every 2year(s) <input checked="" type="checkbox"/> Existence of UNESCO presence at meetings
Institutional affiliation of director		Employee of PWRI

* check on appropriate box

♦ check all that apply

¹ please specify bodies that cover the operational costs of the centre, and other essential costs such as salaries and utility bills, and that provide institutional support to ensure centre's sustainability

² if different from support bodies

³ please specify sources of main budgetary and extrabudgetary funds to implement projects

⁴ please write international networks, consortiums or projects that the centre is part of, or any other close links that the centre has with international organizations or programmes, which are not already mentioned above

Number of staff and types of staff	total number of staff (full-time, or equivalent) : 28 number of staff who are water experts: 20 number of visiting scientists and postgraduate students: 1
Annual turnover budget in USD	About 1.5mil.USD

2. Activities undertaken in the framework of IHP in the period July 2006 – May 2008

- 2.1 Educational activities (i.e., those with accreditation) that directly contributed to the IHP-VI and WWAP
Please include here those activities which led to accreditation of degrees, or those held in formal school settings.
- Disaster Management Policy Programme – water related risk management course (1 yr master course jointly organized with Graduate Research Institute for Policy Studies (GRIPS))
- 2.2 Research activities that directly contributed to the IHP-VI and activities by WWAP
Please include research/applied projects outputs such as publications that directly contributed to the IHP-VI and WWAP objectives
- World Water Development Report #2
- 2.3 Training activities that directly contributed to the IHP-VI and WWAP objectives
- Flood Hazard Mapping training course
River and Dam Engineering course

3. Collaboration and linkages

- 3.1 Participation in major international networks, programmes, partnerships with other UN or other International Agencies, media and professional bodies
- International Flood Initiative (IFI)
World Water Assessment Programme (WWAP)
Asian Pacific Water Hub Network
Network of Asian River Basin Organizations (NARBO)
- 3.2 Participation in meetings related to the IHP and UNESCO (e.g., the UNESCO General Conference, the UNESCO Executive Board, the IHP Intergovernmental Council and/or other meetings organized by IHP)
- IHP Intergovernmental Council
WWAP Coordination meeting
- 3.3 Collaboration and networking with other UNESCO category 1 or 2 institutes/ centres
- 3.3.1 cross-appointment of directors of the category 1 or 2 institutes or centres on the governing board
- No
- 3.3.2 exchange of information on activities such as training/educational materials, and funding opportunities
- UNESCO-IHE, HTC, RCUWM
- 3.3.3 exchange of staff, most notably professionals and students

UNESCO-IHE

3.3.4 implementation of joint activities, such as workshops, conferences, training programmes, joint projects, field visits, software and data sharing, knowledge exchange and publications

Not yet

3.4 Relationships with the UNESCO field office whose jurisdiction covers the country of location

Participated in the meeting at the field office, but not yet started collaborative activities

3.5 Relationship with the UNESCO National Commission and the IHP National Committee in the country of location

The Director of ICHARM is serving as a chair person of IHP National Committee

3.6 Relationship with other UNESCO-related networks, such as UNESCO Clubs, ASPnet, and UNESCO chairs

No

4. Communication

4.1 Communication and knowledge dissemination activities undertaken in the framework of IHP

Training courses and following up seminars

4.2 Policy documents and advice

Not yet

5. Update on Centre Operations

5.1 Membership of the Advisory Board during designated period

Mr. Eugene Z. Stakhiv (Group1:USA)
International Water Advisor, Institute for Water Resources (IWR)
U.S. Army Corps of Engineers

Mr. Maciej Zalewski (Group2: Poland)
Director, International Centre for Ecology, Polish Academy of Sciences

Mr. Carlos EDUARDO Tucci (Group3: Brazil)
Professor, Federal University of Rio Grande do Sul

Mr. Muhammad Akram Kahlowan (Group4: Pakistan)
Chairman, Pakistan Council of Research in Water Resources

Mr. Anwar George Hanna Jiries (Group5: Jordan)
Professor, Mu'tah University

Mr. Abou AMANI (Group6: Niger)
Scientific coordinator, AGRHYMET Regional Center

Mr. Andras Szollosi Nagy
Representative of the Director General, UNESCO

Mr. Avinash C. Tyagi
Representative of the Secretary General, WMO

Mr. Hans J.A. van Ginkel

Rector, United Nations University
Mr. Salvano Briceno
Director, UN/ISDR

Mr. Richard A. Meganck
Rector, UNESCO-IHE Institute for Water Education

Mr. Atsushi Hatakenaka
Senior Vice- President, Japan International Cooperation Agency (JICA)

Mr. Hiroaki Taniguchi
Vice-Minister for Engineering Affairs, Ministry of Land, Infrastructure
and Transport

5.2 Key decisions made (attach minutes of meetings)

(Record of discussion is available for internal use)

6. Assessment of the Centre's Impacts

6.1 Science Impacts (Major contributions to the science, technology, education, and regional and/or international cooperation in the field of water)

Make contribution to the advancement of science and technology for preventing and mitigating water related disasters, through research activities including research collaboration with related organizations and programmes.

6.2 Knowledge Transfer Impacts (Major achievements in the dissemination of knowledge and technology transfer)

Make contribution for capacity development of responsible organizations for water related disaster management in the developing countries, through training courses mainly targeting practical engineers in the relevant field and following up activities of ex-trainees.

6.3 Policy Impacts (advice sought by government and other bodies and evidence of inputs into policy arena)

Make effort to work on policy makers for mainstreaming water related disaster management in the national and local development planning, by promoting the activities for sharing information and experiences and for stimulating discussions at various international occasions such as Asia Pacific Water Forum and World Water Forum.

7. Future activities that will contribute directly to IHP and/or to WWAP

7.1 Operational Plan (2008-2009) (attach operational plan for 2008-09 if available)

ICHARM conducts research, training and information networking activities in a combined manner to prevent and mitigate water related disasters, focusing on flood related disasters at the initial stage. Research projects include the following, which would contribute to IHP and WWAP activities;

- Case Studies on Strengthening of Flood Disaster Management Cycle
- Large Floods Report Project
- Development of a Satellite-based Rainfall Monitoring Technology for Flood Forecasting on a River Basin Scale
- Development of a basic Framework for Flood Forecasting and Warning using Satellite-based and GIS data
- Research on Flood Hazard Maps for Developing Countries
- Research on Flood Risk Assessment and Adaptation Measures to cope with possible future Global Climate Change

7.2 Strategic Plan linked with IHP-VII (attach strategic plan for 2008-11 if available)

In order to achieve its mission to function as the Centre of Excellence to provide and assist implementation of the best practicable strategies to localities, nations, regions and the globe to manage the risk of water related disasters, ICHARM promotes cooperation with related organizations and programmes, which include the following;

- Participating in international activities as a secretariat and/or a player, such as WWAP, IFI and Asia Pacific Water Forum
- Promoting joint projects in cooperation with existing UNESCO centres
- Maintaining and strengthening mutually cooperative partnerships with affiliate research institutes by exchanging personnel and conducting joint researches
- Building a close collaboration and appropriately sharing responsibilities with diverse related international programmes such as IF-Net, JWF and the Network of Asian River Basin Organizations (NARBO) to achieve synergy among the respective activities
- Planning and implementing research and training projects in cooperation with funding organizations such as the Japan International Cooperation Agency (JICA), Asia Development Bank (ADB) and World Bank (WB)

8. Annexes

8.1 List of publications released by the centre (there can be overlap with those listed in 2.2 above)

World Water Development Report #2 (Mar. 2006)
Technical Report on Global Trends of Water related Disasters (Oct. 2005)
Factor Analysis of Water-related Disasters in Bangladesh (June 2007)
Factor Analysis of Water-related Disasters in Sri Lanka (June 2007)
Factor Analysis of Water-related Disasters in the Philippines (June 2007)
Case Study on Risk Factor Analysis of 1991 Cyclone Disaster in Hatiya Island, Bangladesh (Feb. 2008)

8.2 List of training courses conducted (there can be overlap with those listed in 2.3 above)

Disaster Management Policy Programme – water related risk management course (1 yr master course jointly organized with Graduate Research Institute for Policy Studies (GRIPS), about 10 trainees)
Flood Hazard Mapping course (5 weeks, about 16 trainees)
River and Dam Engineering course (3 months, about 10 trainees)