

1 Dec. 2005

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8:00 – 18:00 Hrs Registration

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Chao Praya – 2, 3, 4

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9:00 - 10:00 Hrs **Opening Ceremony**  
Chief Guest: H.E. Mr. Phinij Jarusombat, Minister of Public Health, Thailand

10:00 Hrs **Inauguration of Exhibition**

10:00 – 10:30 Hrs **Tea**

10:30 –12:30 Hrs **Key Note Session**

Chairs: Kaew Nualchawee and Pat Dale

- G.P. Patil
- Maged N Kamel Boulos
- Bill Davenhall
- Sonja Olsen
- Jeffrey Soar
- Katherine C. Bond

12:30 – 13:30 Hrs **Lunch**

13:30 –15:00 Hrs **Technology Track**

Chairs: Engg. Syed Mohamad Gharazi and Phisan S.

- ESRI
- Lotus
- Digital Globe

15:00 – 15:30 Hrs **Tea**

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1 Dec. 2005

Chao Praya - 2	Chao Praya - 3	Chao Praya - 4
<b>15:30 – 17:30 Hrs</b>		
<b>HG1</b>	<b>HG2</b>	<b>HG3</b>
Chairs: Chris Cheisa and Mike Napier	Chairs: Marc Souris and P. Barbazan	Chairs: Berger S. and Tran Vinh Phuoc
<b>Special Session</b> Applications of GIS in Public Health		
Use of GIS for Rapid Population Estimation in Complex Humanitarian Emergencies <i>Ben Sklaver, CDC .</i>	GIS for Analysis of Vector Borne Diseases <i>Muralikrishna IV.</i>	GIDEON : a comprehensive Web-based resource for geographic medicine <i>Berger S.</i>
Towards a Geospatial Disease Outbreak Surveillance and Reporting System, to be presented <i>Pervaiz Meer, COE-DMHA</i>	Spatial Approach of Dengue Transmission based on Vector Pupae Index <i>Barbazan P., Demoraes F., Muttitanon W., Souris M., Yoksan S. and Gonzalez JP</i>	Health GIS in CORE Group Nepal <i>Kabindra J.</i>
Developing a Global GIS Based Model on Avian Influenza in Humans <i>Mike Napier, PDC</i>	Vector-Borne Disease Risk Assessment in Africa: A Geomatics Approach <i>Chalifoux S., Kaya S. and Deguise JC.</i>	OpenGIS Data Structure Enhancement for Craniofacial Morphometric Database <i>Deni Suwardhi, Halim Setan, Albert K.Chong, Zulkepli Majid and Anuar Ahmad</i>
Using GIS for Public Health and its problems in Iran <i>Pirasteh S., Dehnavi M., and Mahmoodzadeh A.</i>	Understanding spatial and temporal patterns of malaria in Indonesia, using Geographic Information Systems <i>Sipe N., Ndoen E. and Dale P.</i>	GIS Based Mapping of Health Facilities at Village Level, under Government and Private Sectors <i>Karthikeyan S.P., Chandra V., Sharma V. and Ringe V.V.</i>
Application of Free/Libre and Open Source Software for Public Health Administration in Thailand <i>Santitamnont P.</i>	Seasonal Effects of Climatic Factors on Epidemic Malaria in Salem District, India: A Statistical Modeling Approach using GIS <i>Prashanthi Devi.M, Prasad Babu. J, Manjula Devi. K.K, Lalitha Parameswari.N and Balasubramanian. S.</i>	Role of GIS in Health Management Information System <i>Lalan Kumar</i>
The use of Remote Sensing for estimating the impact of climate change on Japanese encephalitic disease distribution <i>S. Adsavakulchai, K. Honda</i>	Spatial analysis of enterobiasis infections among Thai schoolchildren in Samut Prakan province using a Geographic Information System <i>Nithikathkul C., Sukthana Y., Hugot JP, Wongsawad C., Wichmann O., Gonzalez JP and Herbreteau V.</i>	Occupational Health Hazards of Ship Scraping Workers at Chittagong Coastal Zone, Bangladesh <i>M. Shahadat Hossain1, Sayedur Rahman Chowdhury1, S. M. Abdul Jabbar2, S.M. Saifullah2 and M. Ataur Rahman</i>
	Modelling Spatial Risk to Dengue and Dengue Hemorrhagic Fever Using Geographic Information System (GIS) and Logistic Regression: A Case Study of Penang Island, Malaysia <i>Aziz bin Shafie, Ruslan bin Rainis and Abu Hassan bin Ahmad</i>	
<b>18:30-20:30 Hrs</b>	<b>Welcome Dinner</b>	

2 Dec. 2005

08:30 –12:00 Hrs Registration

Chao Praya - 2

Chao Praya - 3

Chao Praya - 4

08:30 –10:30 Hrs

HG4

Chairs: Atiq ur Rahman and Biswajit Sharma

Geo-spatial Application for the Health Resource Management  
*J. P. Mishra, Piyush Pandey and Ruma Shukla*

A Fuzzy Logic Based Expert Geographic Information System for Improved Immunization and Healthcare  
*Satyadhyan.R.Chickerur and Aswatha Kumar .M*

Integrated Use of GIS to Design Preventive Strategies for Control and Monitoring the Tramsmission/Epidemics of HIV/Aids in North West Frontier Province (NWFP), Pakistan  
*Noor Jehan, Rabhit Begum, Alia Naz, Jawad Ahmad and Irshad Ahmad*

Developing a Tool for Multi Constraint Query in GIS Environment: A Case Study of Coimbatore South Taluk in India  
*Prasad Babu. J, Sridhar.R, Prashanthi Devi. M., Manjula Devi. K.K, Malini. P, and Balasubramanian. S*

Using geographic information systems (GIS) to understand HIV epidemiologic patterns among men who have sex with men (MSM) residing in Bangkok, Thailand  
*Thomas E. Guadamuz, Samart Karuchit, Philip Mock, Sathapana Naorat and Frits van Griensven*

A Success Story for Pulse Poilo Eradication and Routine Immunisation Implementation Programme by GIS in West Bengal, India: A Model with Technology and Peoples's Participantation  
*Tapas K. Ghatak*

Development of GIS Based Hospital Information System  
*Biswajit Sarma*

HG5

Chairs: Saied Pirasteh and Pakorn Apaphant

Cost effective control of malaria using GIS in forest fringe areas in India  
*Aruna Srivastava, B.N. Nagpal, Rekha Saxena, and A.P. Dash*

Geographic Information System of Dengue Hemorrhagic fever in Phitsanulok  
*Suchart N., Kamnoltham T., Sornprasit S.*

Epidemiological Modeling using GIS: case study of Dengue Fever  
*Ilyani Ibrahim, Madya Dr Khoiri b. Dimiyati*

Identify the Risk Area of Dengue outbreak using Remote sensing and GIS Technologies  
*Umor Morni*

GIS Application for Dengue outbreak Investigation at Sumsung district, Khon Kaen Province, Thailand 2005  
*Chaiyaseth P. Bunyong P., Dumrongmongkolkul R., K. Suwannarong, W. Lertpongipat, P. Pribul*

Developing a new approach to calculating spatial accessibility to primary health care  
*Nasser Bagheri, George L. Benwell, Alec Holt & Toktam Ebadi*

Using Spatial Analysis to Investigate the Detectability of Environmental Risk Factors in Breast Cancer Surveillance Data: A Simulation Study  
*Vipat Kuruchittham1, Dennis G. Fryback2,3, Amy Trentham-Dietz3,4, Marjorie A. Rosenberg5,6, Paul R. Voss7, David R. Zimmerman2, and Dariusz J. Ceglarek2*

HG6

Chairs: Frederic Borne and Hideharu Morishita

Participatory GIS for Health Impact Assessment of Arsenic-contaminated Water in Pakistan: A Case of Chahkalanwala Village, District Kasur  
*Hideharu Morishita, Takeshi Komai and M. Atiq ur Rahman*

A Tool for Fluorosis Endemic Mapping using IDW: Applied to Dharmapuri District in India  
*Manjula Devi K.K, Prasad Babu. J, Prashanthi Devi .M, and Balasubramanian. S*

Detection of Lung cancer clusters in Iran using GIS and statistical analyses  
*Massoomy Z., Saadi Mesgari M.*

Agricultural changes, water quality and health: investigating the health status of populations living in an agricultural irrigated area, using spatial analysis, in Phrae province, Thailand  
*Herbreteau Vincent, Gonzalez Jean-Paul, Khaungaew Wasana, Salem Gérard and Janeau Jean-Louis*

Appropriateness of Sodis Technology to Control Water Borne Infectious Diseases: A Case Study of Cholistan Desert of Pakistan  
*Qamar-ul-Islam and Ghulam Abbas Anjum*

Study of Soil degradation around the Jajrud river using Geographical Information System and Remote Sensing  
*Ammar Rafiei Emam*

Using GIS Freeware and Low cost data to assess the risk of chemical disaster in Samut Prakarn Province  
*Issarapan P., Phumhom P. and Panngok A.*

10:30- 11:00 Hrs

Tea

10:30 – 11:00 Hrs

Poster Session –1

2 Dec. 2005

11:00 – 12:30 Hrs

Chao Praya – 2		Chao Praya – 3	Chao Praya – 4
<b>HG7</b>	<b>HG8</b>	<b>Health Surveillance Workshop</b>	
Chairs: Sanphet Chunitipaisan and N.N. Thach		Chairs: Masood Varshosaz and Pibool Issaraphan	
Development of a Geo-Statistical Model for Skin Cancer <i>Massoomy Z., Saadi Mesgari M.</i>		Development of a GIS-based Water Safety Plan as an Instrument for Risk Management in Catchment Areas <i>Ina Wienand and Thomas Kistemann</i>	
The Development of a Web-Based GIS Application for Mapping HIV Programs in the Mekong Region <i>Catherine Esposito, Lalita Shankar and Sanphet Chunitipaisan</i>		Controlling Infectious Water Borne Diseases through Solar Water Disinfection: A Case Study of Chakwal Mountainous District of Pakistan <i>Ghulam Abbas Anjum and Qamar-ul-Islam</i>	
Environmental Health Considerations in Decisions on Industrial Location: An Application using GIS in Punjab Province, Pakistan <i>Awais Piracha, Hideharu Morishita and Shahed Khan</i>		The Impacts on Health by using Safe Drinking Water through Solar Technology : A Case Study Of Jhang District Of Pakistan <i>Qamar-ul-Islam and Ghulam Abbas Anjum</i>	
Complexity of a Geographical Study Anopheline Densities within an African Village <i>Julie Vallee</i>		Mapping of Air Pollution Dispersion using Remote Sensing and Geographical Information System <i>Suhari Ismail, Sayed jamaludin Sayed Ali</i>	
Glucose Challenge in Women with Premature Ovarian Failure <i>Ahmad moosavi , Saide Pirasteh , Saeed Foroughi</i>		Using Electrical Resistivity and Hydrogeology Modeling for Investigating Saltwater Intrusion in Haiphong Coastal Plain <i>Nguyen Nhu Trung, Nguyen Ba Minh, Nguyen van Nghia</i>	
Health Susceptibility Mapping <i>Taniya Ray, Shalabh Bharadwaj, Dr K.S.Siva Subramanian and Prabir Mukherjee</i>		Health GIS: A Case Study of Leeds City Council (UK) for carrying out Food Hygiene Inspections <i>Kashif Siddiqi, Urooj Fatima, Mubushar Hussain, and Keith Gibson</i>	
Exploring Constraints and Potentialities of Spatial Dimensions in Health Data: A Perspective from Pakistan <i>Mubushar Hussain , Mudassar Hassan Arsalan</i>			

12:30 – 13:30 Hrs Lunch

2 Dec. 2005

13:30 – 15:00 Hrs

Chao Praya – 2	Chao Praya – 3	Chao Praya – 4
<b>HG9</b>	<b>HG10</b>	<b>WebGIS Workshop</b>
Chairs: Shoichiro Hara and Eve Kleiman	Chairs: Supet J. and Chalifoux Stephane	Chairs: Dr. Venkatesh Raghwan and Dr. Surat Lertlem
Geographic Analysis of Vaccine Uptake in a Cluster Randomized Controlled Trial in Hue, Vietnam <i>Mohammad Ali, Vu Dinh Thiem, Jin-Kyung Park, Rion Leon Ochiai, Do Gia Canh, M. Carolina Danovaro-Holliday, Linda M. Kaljee, John D. Clemens and Camilo J. Acosta</i>	Spatial analysis for Health and its problems in Iran <i>Saied Pirasteh, Moahmood Dehnavi, Amir Mahmoodzadeh</i>	Publishing Your GIS Data on the Web Using Free Open Source Software
National GeoSpatial Information Infrastructure Requirements for Health <i>Eve Kleiman</i>	Use of Geographic Information System and Remote Sensing for assessing environment influence on Leptospirosis incidence, Phrae province, Thailand <i>Vincent Herbreteau, Florent Demoraes, Wasana Khaungae, Jean-Pierre Hugot, Jean-Paul Gonzalez, Pattamaporn Kittayapong and Marc Souris</i>	1330-1335 Introduction of the workshop Honda Kiyoshi
Health Information Model based on Geo-temporal Systems – A Tentative Study <i>Shoichiro Hara</i>	Geographical Distribution of Ticks in Thailand: A Discussion Basis for Tick-Borne Virus Spatial Repartition Assessment <i>Cornet Jean-Paul, Demoraes Florent, Gonzalez Jean-Paul, Souris Marc and Kittayapong Pattamaporn</i>	1335-1345 Overview of Web GIS Technologies and Application Venkatesh Raghavan
The Use of Agent Based Model in GIS for Epidemiology and Disease Emergence Prediction <i>Souris Marc</i>	Contextualising the Urban Helathcare System. Methodology for developing a geodatabase of Delhi's healthcare system <i>Pierre Chapelet</i>	1345-1355 Application of Web GIS to Health Sector in Thailand Phisan Santitamnont (10min)
The Application of Geographic Information Systems(GIS) to illustrate geographical distribution of notifiable diseases in Saudi Arabia during the 1990s <i>Abdullah M. AlRabeah, Mona A. AlAnezi</i>	Avian Influenza evolution in Thailand and risk assessment using GIS <i>Souris Marc</i>	1355-1530 Demonstration of Web Map Server ( Installation and Publishing ) Nguyen Duy Hung (65min)
Spatial Analysis for Distribution and its Transmission Characters of Avian Influenza Occurring in 2004 in China using GIS and Remote Sensing <i>L. Y. Lei, W. Xiaobo, X. Chunsheng</i>	Geographic Information System(GIS) supported to Investigate Distribution of Freshwater Snail, Bithynia(Digoniostoma): unicolate, in Suburban area of Chiang Mai, Northern Thailand <i>Ratchadawan Ngoen-Klan, Kabkaew L. Sukontason, Duanghatai Sripakdee, Smarn Tesana, Kim N. Irvine and Kom Sukontason</i>	This workshop will demonstrate how to publish your GIS data on the Web using the free open source software; Minnesota Web Map Server (WMS) on Windows. A CD, containing all necessary software and script for easy installation, will be used for demonstration and will be distributed free. The demonstration will include how to overlay your GIS data on remote sensing images from another server by just establishing a link.
Sensor Combination Assessment and Selection Methodology in Remote sensing satellites <i>M. Hassani, M. Mirshams, A. Talebzadeh</i>		For reservation send e-mail to Mr. Nguyen Duy Hung at <a href="mailto:healthwms@gmail.com">healthwms@gmail.com</a>
<b>15:00 – 15:30 Hrs Tea</b>		
<b>15:00 – 15:30 Hrs Poster Session -2</b>		

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**15:30 - 16:45 Hrs Brain Storming Track – Panel Discussion**

Chair: Dr. David Hastings, UN-ESCAP

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**16:45 - 17:30 Hrs Closing Ceremony**

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**Poster Session**

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***Title***

***Authors***

GIS & Spatial Analysis in the Groundwater Quality Modeling Of Punjab to Assess the Impact of Waterborne Diseases, Pakistan

Adeel Anwar, Shama Qamar  
and Hammad Anwer

Surveillance on data quality in health GIS - A case study in Tamil Nadu, India

M.Arulraj, D.Sathishkumar and N.Manoharan

Health GIS Tools & Applications in Upgradation of Primary Healthcare System in Rural Areas of Punjab, Pakistan

Adeel Anwar, Shama Qamar  
and Hammad Anwer

Data issues and Health GIS

Saurabh Mishra

Rift Vally Fever in Saudi Arabia

Kamel M. Sheikho

Arsenic contamination in the ground water of Bangladesh and its relation with some soil properties

Md. Moqbul Hossain<sup>a</sup>, Krishna Murari Neaupane<sup>a</sup>, Nitin  
Kumar Tripathi<sup>b</sup>

Predicted Risk Areas of Dengue Hemorrhagic fever using a Case control study and satellite images in Thailand

Chitti Chansang, Gregory E. Glass,  
Timothy M. Shields, and Pattamaporn Kittayapong

Geographic Information System(GIS) Application for Investigating the distribution of Sleeping Sickness in Urambo

Benjamin Mayala

GIS is in My Blood!

S. Raghavendran

Targeting Potential Groundwater Zones in Hard Rock Environment using GIS for Rural Development– An integrated Approach

C. Lakshumanan

Exploring Malaria Prevalence in Kanchanaburi, Thailand using Open Source GIS Software

Phaisarn Jeefoo, Yann Chemin,  
and Nitin Kumar Tripathi

An Information Value Approach to Relate Physical and Climatic Factors with Dengue Fever (DF) and  
Dengue Haemorrhagic Fever (DHF)

Nitin K. Tripathi, K. Nakhapakorn,  
K. Nualchawee, P. Pakpian and M. Kusanagi

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