



International Symposium Benefiting from Earth Observation

Bridging the Data Gap for Adaptation to
Climate Change in the Hindu Kush-Himalayan Region

4 - 6 October 2010, Kathmandu, Nepal

Programme

Organised by



Supported by



Collaborating partners



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Published by

International Centre for Integrated Mountain Development
GPO Box 3226, Kathmandu, Nepal

Printed by Quality Printers (P) Ltd., Kathmandu, Nepal

About ICIMOD

The International Centre for Integrated Mountain Development, ICIMOD, is a regional knowledge development and learning centre serving the eight regional member countries of the Hindu Kush-Himalayas – Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan – and based in Kathmandu, Nepal. Globalisation and climate change have an increasing influence on the stability of fragile mountain ecosystems and the livelihoods of mountain people. ICIMOD aims to assist mountain people to understand these changes, adapt to them, and make the most of new opportunities, while addressing upstream-downstream issues. We support regional transboundary programmes through partnership with regional partner institutions, facilitate the exchange of experience, and serve as a regional knowledge hub. We strengthen networking among regional and global centres of excellence. Overall, we are working to develop an economically and environmentally sound mountain ecosystem to improve the living standards of mountain populations and to sustain vital ecosystem services for the billions of people living downstream – now, and for the future.



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Welcome

It gives me great pleasure to welcome you to Kathmandu to the International Symposium 'Benefiting from Earth Observation: Bridging the Data Gap for Adaptation to Climate Change in the Hindu Kush-Himalayan Region'. The symposium has been organised with the ultimate aim of promoting access to and use of earth observation for improved scientific knowledge and understanding to support adaptation to climate change. The Himalayan region is moving to the centre of regional and international attention as one of the world's most vulnerable ecosystems in terms of climate change. The impact of climate change in these mountains is of great concern both to the vulnerable mountain communities themselves, and to those in the downstream river basins and plains whose livelihoods will be affected. The dynamics of these mountain ecosystems are threatened, and the traditional adaptation and coping mechanisms of the local people are losing their effectiveness. ICIMOD with its overarching goal of adaptation to climate change in the Hindu Kush-Himalayan region, and working together with its national and international partners, is working to build regional capacity and develop a relevant knowledge base in relation to key strategies and policies for improving adaptation to climate change for mountain communities at risk.



The Hindu Kush-Himalayan region is portrayed as one of most important data gap regions in the world in terms of assessing climate change. The shortfalls in the data and analysis needed for understanding climate change, its trends, and its impacts are hindering the prediction of future scenarios. Earth observation plays a central role in addressing these gaps. Today's technology can provide a consistent regional view and understanding of change in the remote and often inaccessible mountain areas. We hope that the emerging dynamics of earth observation, and its important role in bringing benefits to society, as outlined by the Group on Earth Observation (GEO), will enhance our and our partners' capacity. Our member countries of China and India are emerging as leading nations on earth observation, and ICIMOD became a participating organisation in GEO in November 2008. As a regional knowledge centre devoted to sustainable mountain development, we believe in harnessing the unprecedented opportunities offered by earth observation to meet the challenges of climate change in the region. I would like to take this opportunity to thank the initiative and the leadership of Basanta Shrestha and his team for their continuing efforts to promote geo-information and earth observation in the region, and for taking the initiative to organise this symposium. I think his programme and staff have created an important potential for further developing geo-based instruments, and excellent regional and international networking.

We are very pleased that the symposium is bringing together many eminent people in the field of earth observation, both from the region and beyond, as well as key regional and international organisations. We sincerely hope that the symposium will provide a platform for building synergies

among national, regional, and international initiatives for the sharing of earth observation data in order to help bridge the data gap for climate change adaptation, and to promote regional cooperation among ICIMOD regional member countries. I hope the event will also provide a useful regional platform for the strengthening of regional and international networking through sharing and mutual learning among the participants.

Finally, on behalf of the organisers, I would like to express my sincere thanks and appreciation to the various sponsors, especially to USAID and NASA for supporting the symposium, as well as to Swedish Sida, UNEP, and the German government through GTZ. I would also like to thank the collaborating organisations for their support.

I wish you a successful symposium and enjoyable stay in Kathmandu.

Andreas Schild
Director General, ICIMOD

Introduction

I would like to welcome the participants to this international symposium and thank you for your keen interest and participation. The symposium has received an overwhelming response from scientists and researchers, development practitioners, and policy-makers with more than 150 abstracts for papers and posters from some twenty countries in the region and beyond.



The main symposium has six themes:

- Remote sensing of the cryosphere
- Spatial decision support systems (DSS) for ecosystem management
- Space-based information for disaster management
- Land cover change and carbon stocks
- Transboundary air pollution monitoring
- Spatial data infrastructure for climate change adaptation

Due to the large number of contributions, the theme on remote sensing of the cryosphere has been divided into two sessions on snow cover monitoring and modelling and glacier mapping and monitoring. Ten abstracts have been selected in each session for oral presentation: a total of 70 presentations in the seven sessions. As far as possible, the further contributions, 60-80 in total, will be presented as posters displayed throughout the symposium in the Poster Pavilion. A special poster session on the 4th October will provide an opportunity for interaction with the presenters. The poster pavilion will also contain an exhibition by private sector companies, managed by GIS Development, India.

This event is the first of its kind in the region, and we sincerely hope that with your active participation and contribution, the symposium will mark an important milestone in meeting our common goals.

Three relevant pre-and-post symposium events are also being organised to coincide with the symposium:

- Youth Forum – Empowering Youth with Earth Observation Information for Climate Actions, 1-6 October, 2010 (by invitation)
- Pre-symposium Workshop on Space-based Information for Disaster Preparedness and Risk Management, 2-3 October, 2010 (by invitation)
- SERVIR Himalaya Regional Inception workshop, 7 October, 2010 (by invitation)

The Youth Forum, will bring together some 40 young people from the Hindu Kush-Himalayan region with the aim of familiarising them with the potential benefits of the information derived from earth observation, and demonstrating practical action for addressing climate change related issues. The participants have been selected through an open competition organised by ICIMOD's Asia Pacific Mountain Network.

The Pre-symposium Workshop on Space-based Information for Disaster Preparedness and Risk Management will bring together about 30 participants from disaster management related organisations in the region, and relevant international partners, with the aim of synergising efforts to use space-based information for disaster preparedness and risk management in the Himalayan region.

Finally, the Regional SERVIR Himalaya Inception workshop is being organised after the Symposium for stakeholder consultations and to determine priority application areas for SERVIR Himalaya. The SERVIR Himalaya initiative is being launched to coincide with the symposium by USAID, NASA, and ICIMOD, together with regional partners.

This booklet contains a summary of the background and the programmes for all four events, together with some information for participants.

I would like to take this opportunity to express my sincere thanks and appreciations to all the team members for their untiring efforts and support to organise the International Symposium and side events.

I wish you a pleasant stay in Kathmandu.

Sincerely,

Basanta Shrestha,
Division Head MENRIS, ICIMOD

Overview of All Symposia and Workshops (Preliminary Programme)

Related to the International Symposium 'Benefiting from Earth Observation: Bridging the Data Gap for Adaptation to Climate Change in the Hindu Kush-Himalayan Region'

Date	Morning Session 08:30 AM – 13:00 PM	Lunch 13:00 – 14:00 PM	Afternoon Session 14:00 – 17:30 PM	Evening Session 18:00 – 21:00 PM
1–6 OCT	<p><u>Special Event – Youth Forum</u> Youth Forum Empowering Youth with Earth Observation Information for Climate Actions</p> <ul style="list-style-type: none"> • Venue ICIMOD, Kathmandu 			Free
2–3 OCT	<p><u>Pre-symposium workshop</u> Space-based Information for Disaster Preparedness and Risk Management (invited participants only)</p> <ul style="list-style-type: none"> • Venue ICIMOD, Kathmandu 			Free
4-OCT	<p><u>Inaugural Session</u> Inaugural and Keynote Addresses</p> <p>Inauguration of Exhibition and Poster Pavilion</p> <p>Youth Forum – Guest Speaker from NASA/USAID</p> <p>(Hall 1 & 2: Megha/Malhar)</p>	Lunch hosted by: <i>Rose Garden</i>	<p><u>Thematic Session I</u> Space based information for disaster risk management</p> <p>(Hall 1: Meghar)</p>	Official dinner hosted by DG, ICIMOD
			<p><u>Thematic Session II</u> Remote sensing of cryosphere (Snow cover mapping and modelling)</p> <p>(Hall 2: Malhar)</p>	<i>Rose Garden</i>
5-Oct	<p><u>Keynote Session</u> Regional and global initiatives: Climate change and earth observation</p> <p>(Hall 1 & 2: Megha/Malhar)</p>	Lunch hosted by: <i>Rose Garden</i>	<p><u>Thematic session III</u> Remote sensing of cryosphere (Glacier mapping and monitoring)</p> <p>(Hall 1: Megha)</p>	Free
			<p><u>Thematic Session IV</u> Spatial decision support system (DSS) for ecosystem management</p> <p>(Hall 2: Malhar)</p>	
6-Oct	<p><u>Thematic Session V</u> Land cover change, and carbon stocks</p> <p>(Hall 2: Malhar)</p>	Lunch hosted by: <i>Rose Garden</i>	<p><u>Concluding Session</u></p> <ul style="list-style-type: none"> • Panel discussion and valedictory • Youth forum concluding session • Symposium concluding session <p>(Hall 1 & 2: Megha and Malhar)</p>	Free
	<p><u>Thematic Session VI</u> Spatial data infrastructure (SDI) for climate change adaptation</p> <p>(Hall 1: Megha)</p>			
7-Oct	<p><u>Thematic session VII</u> Transboundary air pollution monitoring and modelling</p> <p>(Hall 3: Malshree)</p>			Official dinner hosted by DG, ICIMOD <i>Hotel Himalaya</i>
	SERVIR Himalaya Inception Workshop (invited participants), Venue ICIMOD			

Empowering Youth with Earth Observation Information for Climate Actions

1-6 October 2010, Training Hall, ICIMOD Headquarters, Kathmandu

This Youth Forum is being organised with the aim of familiarising young people with the potential benefits of information derived from earth observation for addressing climate change related issues, and to provide a platform for sharing and learning of experiences related to climate change issues in the extended Himalayan region.

The Forum is organised by ICIMOD together with Asia Pacific Mountain Network (APMN), Nepalese Youth for Climate Action (NYCA), and the GIS Society of Nepal, under the framework of the SERVIR Himalaya Youth initiative, and supported by the United States Agency for International Development (USAID) and the National Aeronautics and Space Administration (NASA).

Information on the Youth Forum was disseminated widely among different youth networks; 750 applications to participate were received from the eight regional countries of Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan. The 40 participants were selected based on the applications, which included essay writing, and field of studies, as well as other general information, to provide a representative cross-sectional sample of voices from across the region.

The six-day Forum will expose participants to a range of earth observation tools like satellite imagery, GIS/RS, and Google Earth for analysing impacts on land, air, and water and identifying climate change attributes in their communities. The aim is to enhance participants capacity for using climate and Earth observation data and products more effectively to integrate climate-risk management into national policies for sustainable development.

Preliminary Programme

Empowering Youth with Earth Observation Information for Climate Actions

(Presenters from ICIMOD unless otherwise indicated)

Day 1: 1 October 2010

09:00 – 09:30	Registration	Liza Manandhar
09:30 – 11:00	Inaugural Session	
09:30 – 09:45	Welcome Address	Andreas Schild, Director General – ICIMOD
09:45 – 10:00	Workshop Background and Objectives Introduction of Participants	Bidya Banmali Pradhan
10:00 – 10:20	Guest address	Anil Chitrakar, Ashoka Fellow
10:20 – 10:30	Guest remarks	Jason Kessler, NASA
10:30 – 10:50	Keynote Presentation: Earth Observation and Climate Change	Basanta Shrestha, Division Head MENRIS, ICIMOD
10:50 – 11:00	Vote of Thanks	Birendra Bajracharya
11:00 – 11:30	<i>Group Photograph / Tea break</i>	<i>Nabin Baral</i>
11:30 – 12:35	Climate Change and the Himalayas <ul style="list-style-type: none"> • Participants' perceptions • Impact of climate change on Himalayan glaciers (video) • Too much water too little water (video) 	Moderators Tek Jung Mahat, Utsav Maden
13:00 – 14:00	<i>Lunch break – ICIMOD Canteen</i>	
14:00 – 15:00	Earth Observation and Geospatial Tools for Climate Change Studies	Birendra Bajracharya
15:00 – 17:00	Hands-on Exercise I <ul style="list-style-type: none"> • Exploring GIS data • Exploring web resources 	Sudip Pradhan, Rajan Bajracharya, Shova Shrestha

Day 2: 2 October 2010

09:00 - 9:30	Address by Mark Stanislaus McCaffrey (Via video conference)	
09:30 – 10:00	ICIMOD's Response to Climate Change in the Himalayas	Arun Bhakta Shrestha
10:00 - 10:30	Understanding Earth Observation <ul style="list-style-type: none"> • Satellites and sensor types • Examples of remote sensing applications 	Hammad Gilani
10:30 – 10:45	<i>Tea break</i>	
10:45 – 13:00	Hands-on Exercise II <ul style="list-style-type: none"> • Exploring satellite images • Playing with band combinations for information extraction 	Hammad Gilani, Kabir Uddin
13:00 – 14:00	<i>Lunch break – ICIMOD Canteen</i>	

14:00 – 15:00	Impact of Climate Change in the Himalayas: Case Presentation I <ul style="list-style-type: none"> • Snow cover in context of climate change • Melting of Himalayan glaciers • Application of EO for snow cover monitoring 	Samjwal Bajracharya, Deo Raj Gurung, Khun San Aung
15:00 – 17:00	Hands-on Exercise III <ul style="list-style-type: none"> • Exploring melting of glaciers • Exploring snow cover changes 	Deo Raj Gurung, Khun San Aung, Sudan Maharjan, Finu Shrestha, Shova Shrestha

Day 3: 3 October 2010

9:30 – 10:30	Impact of Climate Change in the Himalayas: Case Presentation II <ul style="list-style-type: none"> • Land cover change in Sagarmatha National Park and Buffer Zone 	Birendra Bajracharya
10:30 – 10:45	<i>Tea break</i>	
10:45 – 11:45	Impact of Climate Change in the Himalayas: Case Presentation III <ul style="list-style-type: none"> • Disaster preparedness and risk management using rapid response mapping • Flooding in Pakistan from ground to space • Sentinel Asia – video • Satellite Image gallery of natural disasters • NASA TRMM in disaster early warning 	Amarnath Giriraj

11:45 – 12:15	Impact of Climate Change in the Himalayas: Case Presentation IV <ul style="list-style-type: none"> • Air quality • Brown cloud • Hands on exercise (on-line) IV 	Bidya B Pradhan
13:00 – 14:00	<i>Lunch break – ICIMOD Canteen</i>	
14:00 – 14:30	Experience: Climate issues in Bhutan	Dasho Paljor J. Dorji, Special Advisor, NEC Bhutan
14:30 – 15:00	Special address	Prof. José Achache, GEO Secretariat
15:00 – 17:00	Hands on exercise (on-line) IV (Contd.) <ul style="list-style-type: none"> • Exploring air quality products • Exploring forest fire products 	Bidya B. Pradhan, Pradeep Dangol, Suyesh Pradhan, Hammad Gilani, Amarnath Giriraj, Shova Shrestha

Day 4: 4 October 2010

8:30 – 14:00	Attending the International Symposium Inauguration and Youth Forum	Soaltee Hotel
11:30	Guest Speakers	Carrie Stokes, USAID Dan Irwin, NASA Dawa Steven Sherpa, Climate Ambassador
14:00 – 17:00	Project Work <ul style="list-style-type: none"> • Group formation • Identification of a key issue • Exploring for data and methodology 	Utsav Maden, Shova Shrestha, Rajesh Thapa, Sagar Bajracharya, Kabir Uddin, Finu Shrestha, Sudan Maharjan, Khun San Aung, Krishna Paudel

Day 5: 5 October 2010

09:00	Project Work <ul style="list-style-type: none"> • Data analysis • Preparation of presentation 	Utsav Maden, Shova Shrestha, Rajesh Thapa, Sagar Bajracharya, Kabir Uddin, Finu Shrestha, Sudan Maharjan, Khun San Aung, Krishna Paudel
13:00 – 14:00	<i>Lunch break – ICIMOD Canteen</i>	
14:00 – 14:20	Special Guest Talk Programme	Charles F Bolden Jr, NASA Administrator,
14:20 – 14:40	Special Guest Talk Programme	Michael Yates, Sr. Deputy Assistant, USAID Administrator
14:40 – 15:00	Questions / Answers	
15:00 – 17:00	Continuation of Project Work	Utsav Maden, Shova Shrestha, Rajesh Thapa, Sagar Bajracharya, Kabir Uddin, Finu Shrestha, Sudan Maharjan, Khun San Aung, Krishna Paudel

Day 6: 6 October 2010

Pre-symposium workshop on Space-Based Information for Disaster Preparedness and Risk Management

2-3 October 2010, ICIMOD Headquarters, Kathmandu Nepal

The pre-symposium workshop aims to build synergies with national, regional, and international initiatives for the use of space-based information for disaster risk reduction. The workshop will bring together national partners in ICIMOD member countries to explore the possibilities of hosting a regional platform for space-based information for disaster management in the Hindu Kush-Himalayas.

The two-day event will develop partnerships to engage the support of regional space agencies and international charters in contributing to capacity building and institutional strengthening related to the use of space-based information. The outcomes will be shared at the international symposium for wider consultation and discussion. The pre-symposium workshop is expected to result in the development of a regional framework for utilising space-based information for disaster management.

Coinciding with the International Symposium, we will be inaugurating JAXA's WINDS receiving station at ICIMOD to facilitate quick access to satellite imagery and products during major disasters.

Preliminary Programme (at time of going to press, subject to change)**Pre-symposium workshop on Space-Based Information for Disaster Preparedness and Risk Management****Day 1: 2 October 2010 (Saturday)**

Opening Session		
09:00 – 09:30	Registration	Liza Manandhar, Sudan Maharjan, Finu Shrestha
09:30 – 09:40	Opening and Introduction of Participants	Amarnath Giriraj
09:40 – 09:55	Welcome Address	Andreas Schild, Director General ICIMOD
09:55 – 10:05	Pre-Symposium Opening Remarks	Artis Gwendolyn, NASA, USA
09:55 – 10:05	Workshop Purpose, Objectives and Expected Outcomes	Amarnath Giriraj
10:05 – 10:25	Space-Based Information for Disaster Management in the Hindu Kush-Himalayan Region	Basanta Shrestha, Division Head MENRIS
10:25 – 10:30	Vote of Thanks	Ghazanfar Khattak
10:30 – 11:00	<i>Photo session and tea break</i>	
Technical Session I: Overview of Space Technology and Disaster Management		
Chair	Mohammad Asif Khan, Director, University of Peshawar, Pakistan	
Co-chair	Sreeja Nair, National Institute of Disaster Management, India	
Rapporteur	Ghazanfar Khattak, ICIMOD	
11:00 – 11:20	Spatial data to complement the use of space-based information for disaster management	Shirish Ravan, UN-SPIDER, Austria
11:20 – 11:40	National disaster monitoring and reduction by China Space Application	Li Jing, Beijing Normal University, China
11:40 – 12:00	Application of satellite data and GIS for natural hazard and risk assessment	Anisur Rahman, Asian Disaster Preparedness Centre, Thailand
12:00 – 12:20	Pakistan floods: Rapid response mapping by ICIMOD	Amarnath Giriraj
12:20 – 12:40	GEO-ICT on early warning for GLOF in the Himalayan region	Hiromichi Fukui, Keio University, Japan
12:40 – 13:00	Discussion	
13:00 – 14:00	<i>Lunch break</i>	

Group Session I: Space-Based Information for Disaster Management in the HKH Region and Role of ICIMOD

14:00 – 17:00	<p>This session is intended to assess the capability and use of space-based information in disaster preparedness and risk management by national partners in the region, and to identify ways and means to synergise the cooperation with regional and global space agencies and international partners, and discuss the ways to benefit from the international charter on 'Space for Major Disasters'. The group discussion is expected to bring in experiences and learning from the region and beyond on recent disasters in accessing and using space-based information for both pre-disaster and post-disaster activities. The group discussion will focus on promoting regional cooperation on information sharing and exchange for disaster management. The participants will be divided into four groups focusing on (but not limiting to) the following topics:</p> <ul style="list-style-type: none"> • Identify strategies to bridge the gap between space technology (information) and the disaster management communities among the regional member countries of ICIMOD • Improve communication and coordination among regional and international stakeholders regarding access and use of space-based information during major disasters • Identify gaps and needs to strengthen national institutions and capacity building in utilising space based information for disaster preparedness and risk management • Role of regional organisations like ICIMOD in space-based information for disaster preparedness and risk management.
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Day 2: 3 October 2010 (Sunday)

Chairperson	Madhav Bahadur Karki, Deputy Director General, ICIMOD
Co-Chair	Shirish Ravan, UN-SPIDER, Austria
Rapporteur	Ghazanfar Khattak, ICIMOD

09:00 – 10:30	<p>Group Session of Day 1: Regional framework and cooperation for utilising space-based information in disaster preparedness and risk management</p> <p>Group presentation (10 minutes each from Day 1) and Discussion</p>
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10:30 – 11:00	<i>Tea break</i>
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Technical Session II: Remote Sensing Approach for Disaster Risk Management in the Himalayan region

Chairperson	Vivek Saxena, Director, MoEnF, India	
Co-Chair	Wu Wei, NDRCC, China	
Rapporteur	Ghazanfar Khattak, ICIMOD	
11:00 – 11:20	Global perspective on modelling fire risk and spread	Yusuf Hussin, ITC, The Netherlands
11:20 – 11:40	Multi-source and multi-temporal remote sensing in Wenchuan earthquake	Jianqiang Zhang, IMHE, China
11:40: – 12:00	The Glacial Lake and their dynamic changes during the past 40 years in Nepal	Wu Lizong, CAREERI, China
12:00 – 12:20	Regional flood forecasting and early warning	Hari Krishna, ICIMOD
12:20 – 12:40	The notion of vulnerability - Its need within an integrated disaster risk management	Stefan Kienberger, University of Salzburg, Austria
12:40 – 13:00	Inauguration of JAXA-WINDS receiving station at ICIMOD WINDS demonstration	Shinichi Mizumoto, JAXA José Achache, Director GEO Secretariat, Switzerland Andreas Schild, Director General ICIMOD Basanta Shrestha, Division Head MENRIS, ICIMOD Shinya Tanaka, JAXA
13:00 – 13:15	Closing remarks	José Achache, Director GEO Secretariat, Switzerland Andreas Schild, Director General ICIMOD
13:15 – 14:15	<i>Lunch break</i>	

Full Programme (at time of going to press, subject to change)

International Symposium on Benefiting from Earth Observation: Bridging the Data Gap for Adaptation to Climate Change in the Hindu Kush-Himalayan Region

4–6 October, Hotel Soaltee Crowne Plaza, Kathmandu, Nepal

Venue: Hall 1 Megha and Malhar

4 October, 2010 (Monday)

08:00 – 08:30	Registration of participants
Inauguration	
Chief Guest	Rt. Honourable Subash Chandra Nembang, The Constituent Assembly Chairman, Government of Nepal
Chair	Honourable Minister, Ministry of Environment, Government of Nepal
Guest of Honour	Shri Jairam Ramesh, Minister of State for Environment and Forests, Government of India
08:30 – 08:40	Welcome address by Andreas Schild, Director General, International Centre for Integrated Mountain Development (ICIMOD), Nepal
08:40 – 08:50	Inauguration of the International Symposium by Rt. Honourable Subash Chandra Nembang, The Constituent Assembly Chairman, Government of Nepal (lighting of the auspicious lamp) Inaugural address by Rt. Honourable Subash Chandra Nembang, The Constituent Assembly Chairman, Government of Nepal
08:50 – 09:05	Guest address by Kevin Rushing, USAID Mission Director, Nepal
09:05 – 09:10	Guest address by Michel Jarraud, Secretary General, World Meteorological Organization (WMO), Switzerland (Video Message)
09:10 – 09:30	Keynote address by Prof. José Achache, Director Group on Earth Observation (GEO) Secretariat, Switzerland
09:30 – 09:50	Address by Guest of Honour, Honourable Shri Jairam Ramesh, Minister of State for Environment and Forests (Independent Charge), Government of India
09:50 – 10:05	Address by Chairperson, Honourable Minister, Ministry of Environment, Government of Nepal
10:05 – 10:15	Vote of Thanks by Basanta Shrestha, Division Head MENRIS, ICIMOD
10:15 – 10:30	Inauguration of Exhibition and Poster Pavilion
10:30 – 11:30	Visit to Exhibition and Poster Pavilion with Tea/Coffee break
11:30 – 12:30	Guest speakers from Carrie Stokes, USAID; Dan Irwin, NASA, USAID/NASA and Climate Ambassador, Dawa Steven Sherpa on Youth Forum
12:30 – 13:30	<i>Lunch Rose Garden</i>

Thematic Session I: Space-Based Information for Disaster Management

Venue: Hall 1 Megha

4 October 2010 (13:30 – 17:30)

Chair	Vivek Saxena, IFS, Ministry of Environment and Forests, India
Co-Chair	Mohammad Asif Khan, University of Peshawar, Pakistan
Rapporteur	Tek Jung Mahat, ICIMOD
Coordinator	Amarnath Giriraj, ICIMOD

Time	Topic	Presenter
13:30 – 13:50	Support from space: The United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)	Shirish Ravan, UN-SPIDER, Austria
13:50 – 14:10	Rapid response mapping to support disaster management in Himalayan region	Amarnath Giriraj, ICIMOD
14:10 – 14:30	Space-based information for assessing the community vulnerability to flood disasters in mountainous Himalayas	Shakil A. Romshoo, University of Kashmir, India
14:30 – 14:50	Monitoring vulnerability: Integration of earth observation for enhanced disaster risk reduction	Stefan Kienberger, Salzburg University, Austria
14:50 – 15:10	Spatial modelling of fire-induced carbon emission in tropical forests: a case study of Afram Headwaters Forest Reserve, Ghana	Yousif Hussin, ITC, Netherlands
15:10 – 15:30	<i>Tea/Coffee break</i>	
15:30 – 15:50	The Attabad debris dam, Upper Hunza Valley, North Pakistan: A potential hazard	Ghazanfar Khattak, University of Peshawar, Pakistan
15:50 – 16:10	Seismic vulnerability assessment for Chittagong Hill Tract municipalities of Bangladesh	Anisur Rahman, Asian Disaster Preparedness Centre, Thailand
16:10 – 16:30	Reconstructing Indian census variables using remotely sensed environmental metrics	Gary Watmough, University of Southampton, UK
16:30 – 16:50	Spatial and non-spatial information on flood monitoring and early warning system	Ponthip Limlahapun, Keio University, Japan
16:50 – 17:10	Glacial Lakes and Glacial Lake Outburst Floods in the Himalayas	Pradeep Mool, ICIMOD
17:10 – 17:30	Closing remarks by Chair	

Thematic Session II: Remote Sensing of Cryosphere (Snow cover mapping and modelling)

Venue: Hall 2 Malhar

4 October 2010 (13:30 – 17:30)

Chair Bruce RAUP, NSIDC, USA

Co-Chair Arun B. Shrestha, ICIMOD

Rapporteur Ujol Sherchan, ICIMOD

Coordinator Deo Raj Gurung, ICIMOD

Time	Topic	Presenter
13:30 – 13:50	Imaging spectroscopy of light-absorbing impurities in snow and ice.	Thomas H. Painter, Jet Propulsion Laboratory, USA
13:50 – 14:10	Development and validation of snow cover monitoring algorithm for Himalayan region.	Anil V. Kulkarni, Indian Institute of Sciences, India
14:10 – 14:30	A refinement of MODIS snow cover algorithm for mountainous Tibetan Plateau region.	Bohui Tang, Chinese Academy of Science, China
14:30 – 14:50	Large-scale monitoring of snow cover area and variability in Hindu Kush-Himalaya region.	Deo Raj Gurung, ICIMOD, Nepal
14:50 – 15:10	Estimation of average snow cover over Northern Pakistan	Furrukh Bashir, Pakistan Meteorological Department, Pakistan
15:10 – 15:40	<i>Tea break</i>	
15:40 – 16:00	Monitoring Sikkim Himalayan cryosphere	Smiriti Basnett, Department of Science and Technology, Sikkim, India
16:00 – 16:20	Monitoring snow cover dynamic in the trans-Himalayan region of Nepal using MODIS data	Keshav P. Paudel, University of Bergen, Norway
16:20 – 16:40	Simulation of the spatial distribution of snow cover in the Himalayan river basin of Nepal and its comparison with MODIS satellite product	Maheswor Shrestha, University of Tokyo, Japan
16:40 – 17:00	Remote sensing inputs for snowmelt runoff modelling and glacial lakes mapping	K.Abdul Hakeem, NRSC, India
17:00 – 17:20	The research of snow cover monitoring and analysis with multi data source over Tibetan Plateau	Liu Yujie China Meteorological Administration, China
17:20 – 17:30	Closing remarks by Chair	

Plenary Session: Regional and Global Initiative: Climate Change and Earth Observation

Venue: Hall Megha and Malhar

5 October, 2010 (Tuesday)

Keynote Session

Chairperson Prof. José Achache, GEO Secretariat Director

Co-Chairperson Prof. Hiromichi Fukui, Keio University, Japan

Rapporteur Olivia Gippner

08:30 – 08:40	Welcome	Andreas Schild, Director General, ICMOD
08:40 – 09:00	Earth science satellites for society: The role for NASA in the collaborative future of earth remote sensing to understand and manage our planet	Charles F. Bolden Jr., NASA Administrator
09:00 – 09:20	Keynote Address	Michael Yates, Sr. Deputy Assistant, Administrator, USAID, USA
09:20 – 09:40	Bridging the data gap for climate change adaptation in the Hindu Kush-Himalayan region	Basanta Shrestha, Division Head – MENRIS, ICMOD
09:40 – 09:50	SERVIR-Himalaya Launching Ceremony	
09:50 – 10:20	<i>Tea/Coffee break</i>	
10:20 – 10:40	Remote Sensing Activities in Bangladesh in Support of Climate Change Adaptation	Muzibur Rahman Howlader, Chairman, Space Research and Remote Sensing Organization (SPARRSO), Bangladesh
10:40 – 11:00	Atmospheric science experiments of the Tibetan Plateau	Xiangde Xu, Academician, Chinese Meteorological Organization (CMA), China
11:00 – 11:20	Indian Space Research Organization (ISRO), India	P. S. Roy, Dean, IIRS, Indian Space Research Organization (ISRO), India
11:20 – 11:40	Pakistan Space & Upper Atmosphere Research Commission (SUPARCO), Pakistan	Imran Iqbal, Member Secretary, Space Applications and Research, Pakistan
11:40 – 12:00	JAXA's contributions to climate change adaptation and Asia-Pacific Regional Space Agency Forum	Shinichi Mizumoto, Director, JAXA Bangkok Office, Thailand
12:00 – 12:30	Discussion	
12:30 – 13:30	<i>Lunch Rose Garden</i>	

Thematic Session III: Remote Sensing of cryosphere (Glacier mapping and monitoring)

Venue: Hall 1 Megha

5 October 2010 (13:30 – 17:30)

Chair	Anil V. Kulkarni, IISc, India
Co-Chair	Liu Shiyin, CAREERI, China
Rapporteur	Rajendra Shrestha, ICIMOD
Coordinator	Samjwal Bajracharya, ICIMOD

Time	Topic	Presenter
13:30 – 13:50	Science and technology basis for operational high-frequency monitoring of glaciers and their environs in the Hindu Kush-Himalaya region	Jeffrey S Kargel, University of Arizona, USA
13:50 – 14:10	GLIMS glacier mapping: Lessons from the past and future directions to Himalaya region	Bruce Raup, GLIMS, NSIDC, USA
14:10 – 14:30	Current knowledge on Mountain Permafrost in Nepal Himalaya and Future Research Prospective in the Context of Global Climate Change	Dhananjay Regmi, Central Department of Geography, TU, Nepal
14:30 – 14:50	Data and Methods in Second Glacier Inventory of China	Guo Wanqin, CAREERI, China
14:50 – 15:10	Second generation glacier inventory of the HKH region (Afghanistan, Bhutan, Myanmar and Nepal)	Samjwal Bajracharya, ICIMOD, Nepal
15:10 – 15:40	<i>Tea/Coffee break</i>	
15:40 – 16:00	Glacier mass changes at Mt. Everest/Nepal 1962-2007 based on multi-temporal digital terrain models	Tobias Bolch, University of Dresden, Germany, University of Zurich, Switzerland
16:00 – 16:20	Recent surge in tributaries of Panmah glacier in Karakoram ranges, Pakistan	Qamar-ul-Zaman, Pakistan Meteorological Department, Pakistan
16:20 – 16:40	A comparison of glacial retreat in two adjacent basins of Western Himalaya, India: Study using RS and GIS	Rupal M. Brahmhatt, M.G. Science Institute, India
16:40 – 17:00	Are secular movements in the glaciers of Ladakh Mountains, Ladakh (J&K State), India, a response to climate change?	RK Ganjoo, University of Jammu, India
17:00 – 17:20	Radar remote sensing for evaluating climatically induced hazards in the Himalaya	D.J. Quincy, Aberystwyth University, UK
17:20 – 17:30	Closing remarks by Chair	

Thematic Session IV: Spatial Decision Support System for Ecosystem Management

Venue: Hall 1: Malhar

5 October 2010 (13:30 – 17:30) Tentative Programme

Chair Dasho Peljor J. Dorji, Special Advisor to Nat'l Environment Commission, Bhutan

Co-Chair Md. Shamsul Alam, Jahangirnagar University, Bangladesh

Rapporteur Sunita Chaudhary, ECES, ICIMOD

Coordinator Sudip Pradhan, ICIMOD

Time	Topic	Presenter
13:30 – 13:50	Landscape level planning towards developing a decision support system for sustainable management and eco-restoration of protected areas (PAs)	Md. Abu Syed, Bangladesh Centre for Advanced Studies, Bangladesh
13:50 – 14:10	Decision support toolbox for protected area ecosystem management	Sudip Pradhan, ICIMOD, Nepal
14:10 - 14:30	ARANYA: A comprehensive spatial decision support system for forest management	Manish P Kale, Geomatics Solutions Development Group, Centre for Development of Advanced Computing, India
14:30 – 14:50	Pakistan wetlands inventory data portal – An integrated GIS tool for the wetlands' knowledge and management	Faisal Mueen Qamer, WWF–Pakistan
14:50 – 15:10	Indian Forest Fire Response and Assessment System (inffras)	G. Rajasekhar, National Remote Sensing Center, ISRO, India
<i>15:10 – 15:30: Tea break</i>		
15:30 – 15:50	Climate change impact and mountain farmers adaptive strategies: Need for integrating farmers innovations into mountain agro-ecosystems management DSS	Tej Partap, Sher-e-Kashmir Uni. of Agr. Sci. and Tech., India
15:50 – 16:10	Development of a "National Flood Monitoring System (NFMS)" based on remote sensing techniques	AZMD. Zahedul Islam, SPARRSO, Bangladesh
16:10 – 16:30	Systematic access to climate change knowledge and adaptation experiences: A web based approach	Prajal Pradhan, Potsdam Institute for Climate Impact Research, Germany
16:30 – 16:50	Geospatial analysis for prospecting of biological resource, species exploration in Alpine cold desert areas of Jammu & Kashmir.	Ashok Peddi, JRF, National Remote Sensing Center, ISRO, India
16:50 – 17:10	Use of GIS/RS for the improvement of legal notification of Khunjerab National Park – a step towards better ecosystem management	Naeem Shahzad WWF–Pakistan
17:10 – 17:30	Discussion and closing remarks by Chair	

Thematic Session V: Land Cover Change and Carbon Stocks

Venue: Hall 1 Megha

6 October 2010 (08:30 – 12:30)

Chair	Syed Said Badshah Bukhari, DG, PFI, Pakistan
Co-Chair	Atikul Azam, Deputy Chief Conservator, DoF, Bangladesh
Rapporteur	Dipshikha Gurung, ICIMOD
Coordinator	Hammad Gilani, ICIMOD

Time	Topic	Presenter
08:30 – 08:50	Methodological issues on monitoring forest cover and forest carbon stocks	Devendra Pandey, Forest Survey-India
08:50 – 09:10	Modelling, mapping and monitoring carbon stock in Forests of three different ecological zones of Nepal using high resolution satellite images and GIS	Yousif Ali Hussin, ITC-Netherlands
09:10 – 09:30	Carbon flux assessments in forest ecosystems using Landsat and terrestrial sample based inventory data	M. Mahmudur Rahman, SPARRO-Bangladesh
09:30 – 09:50	Integration of airborne LiDAR, satellite imagery, and field measurements using two-phase sampling method for forest biomass estimation in tropical forests	Basanta Raj Gautam, Arbonaut Ltd, Finland
09:50 – 10:10	Land cover change in natural reserve of the yellow river delta, China, 1999-2008	Qingsheng Liu, IGSNRR-China
10:10 – 10:30	LCCS based harmonised and standardised national land cover mapping in HKH region	Hammad Gilani, ICIMOD
10:30 – 10:45	<i>Tea/Coffee break</i>	
10:45 – 11:05	Impact of vegetation on the environment of Margalla Hills National Park, Islamabad, using remote sensing techniques	Muhammad Farooq Iqbal, PMD, CIIT-Pakistan
11:05 – 11:25	Assessment of land use change and carbon stock in the community forests, mid-hill of Nepal	Chinta Mani Gautam, SoE and Socio-Economic Up-liftment-Nepal
11:25 – 11:45	Above ground phytomass and carbon estimation in trees outside forest using remote sensing and ancillary data	Pritam Chand, Jawaharlal Nehru University, India
11:45 – 12:05	Response of Himalayan ecosystems to global change based on 1982-2006 satellite data	Shijo Joseph, ATREE-India
12:05 – 12:25	Forest carbon measurement: An overview of forest carbon estimation methods and the role of remote sensing (RS) and GIS techniques for successful REDD implementation	Thakur Bhattarai, Centre for Plant and Water Science, CQ University, Australia
12:25 – 12:30	Closing remarks by Chair	

Thematic Session VI: Spatial Data Infrastructure (SDI) for Climate Change Adaptation

Venue: Hall 2 Malhar

6 October 2010 (08:30 – 12:30)

Chair Giasuddin Ahmed Chowdhury, Executive Director, CEGIS, Bangladesh

Co-Chair Dorji Tshering, Head Topographical Division, NLC, Bhutan

Rapporteur Utsav Maden, ICIMOD

Coordinator Rajan Bajracharya, ICIMOD

Time	Topic	Presenter
08:30 – 08:50	Bridging the information gap in mountain regions with GEOSS	Fernando Ramos GEO Secretariat, Switzerland
08:50 – 09:10	Indian remote sensing programmes and its Applications	Nagaraja Navoori/Abdul Hakeem, NRSC/ ISRO, NDC, India
09:10 – 09:30	Pakistan's NSDI: Nice to have or need to have	Asmat Ali, Assistant Director, Survey of Pakistan
09:30 – 09:50	Off-grid models for climate change adaptation by SDI and wireless sensor network	Hirofumi Fukui, Keio University, Kanagawa, Japan
09:50 – 10:10	A regional SDI in the Hindu-Kush Himalayas – Initiatives at ICIMOD	Birendra Bajracharya, ICIMOD
10:10 – 10:30	Prototype an e-GeoScience System to facilitate Northeast Asia Cooperative Research	Min Feng, Fei Yang, Jiulin Sun, Yunqiang Zhu, CAS
10:30 – 10:45	<i>Tea/Coffee break</i>	
10:45 – 11:05	Global/seasonal imaging spectroscopy measurements of the terrestrial surface and the NASA Decadal Survey HypSIRI Mission	Thomas H. Painter/Robert O. Green, Jet Propulsion Laboratory, California Institute of Technology, USA
11:05 – 11:25	Use of remote sensing and integrated database information system (IDIS) to quantify environmental impacts of climate change in the Indus Basin	Asad Sarwar Qureshi Water Resources Management Specialist, WMI Pakistan
11:25 – 11:45	Hydrological modelling and climate change in a rural river catchment of Nawalparasi, Nepal	Eloise M. Biggs School of Geography, University of Southampton, UK
11:45 – 12:05	Climate change adaptation in Asia and the Pacific – a knowledgebase web portal for climate information services in Asia-Pacific	Paribesh Pradhan, UNEP-RRCAP, AIT, Bangkok
12:05 – 12:25	Information infrastructure for disaster management	Md. Shahidul Islam, Tasdiq Ahmed GIS Mapping Analyst, (CDMP), UNDP, Bangladesh
12:25 – 12:30	Closing remarks by Chair	

Thematic Session VII: Transboundary Air Pollution Monitoring and Modelling

Venue: Hall 3 Malshree
6 October 2010 (08:30 – 12:30)

Chair	Prof. Soonchang Yoon, Seoul National University, Korea
Co-Chair	Bal Krishna Sapkota, Institute of Engineering, Nepal
Rapporteur	Adelaida Roman, UNEP, RRC.AP
Coordinator	Bidya Banmali Pradhan, ICIMOD

Time	Topic	Presenter
Key Paper 08:30 – 08:50	Long range transport of Asian dusts/aerosols and their radiative forcing in East Asia	Soonchang Yoon, Seoul National University
08:50 – 09:10	A Rapid urban assessment-of air for Kathmandu-Patan city	Bidya B Pradhan, ICIMOD
09:10 – 09:30	Sensor service GRID for publishing atmospheric brown cloud observation data in ICIMOD	Kiyoshi Honda, AIT
09:30 – 09:50	Assessment of surface dimming (area) and its classification by type (haze, fog) using satellite data over Punjab, Pakistan	Arifa Lodhi, SUPARCO
09:50 – 10:10	Atmospheric soil dust in Indian region- A natural geo-engineering tool to combat acidification and climate change	Umesh Kul Shrestha, JNU
10:10 – 10:30	Overview of black carbon transport across Himalayas	Maheswar Rupakheti, UNEP, RRC.AP
10:30 – 10:45	<i>Tea/Coffee break</i>	
10:45 – 11:05	Assessment of acid deposition in Bangladesh using air pollution dispersion modelling	Asif Iqbal, AIT
11:05 – 11:25	Wildlandfires and regional climate change interactions: Focus on atmospheric brown clouds (ABC) in Hindu Kush-Himalayan (HKH) region	Sunder P Sharma, ISDR
11:25 – 11:45	Using satellite data to develop environment indicators of air quality	Jill A. Engel Cox, Battelle Science & Technology Malaysia
11:45 – 12:05	Study on aerosol optical depth in Bhaktapur	Niranjan Prasad Sharma, IOE
12:05 – 12:25	Assessment of aerosol influence on atmospheric properties using integrated measurements: Ground- and satellite-based observations	Thongchai Kanabkaew, AIT
12:25 – 12:30	Closing remarks by Chair	

Valedictory Session

6 October 2010 (14:00 – 16:50)

Chair	Tej Partap, Vice Chancellor, Sher-e-Kashmir University of Agriculture Sciences and Technology, Jammu & Kashmir, India
Co-Chair	Madhav B. Karki, Deputy Director General, ICIMOD
Rapporteur	Olivia Gippner

Overall synthesis – Recommendations

14:00 – 14:05	Introduction of Panelists
14:05 – 15:00	Feedback from sessions and pre symposium events
	Special event: Empowering Youth with Earth Observation Information for Climate Actions
	Pre-symposium workshop on Space-Based Information for Disaster Preparedness and Risk Management
	International Symposium on Benefiting from Earth Observation: Bridging the Data Gap for Adaptation to Climate Change in the Hindu Kush-Himalayan Region (Session chairs)
15:00 – 16:00	Panel Discussion
16:00 – 16:10	Concluding Remarks – Andreas Schild, Director General, ICIMOD
16:10 – 16:20	Vote of Thanks and Closing Basanta Shrestha, ICIMOD
16:20 – 16:50	<i>Tea/Coffee Break</i>

SERVIR-Himalaya Regional Inception Workshop

7 October 2010, ICIMOD Headquarters, Kathmandu, Nepal

SERVIR is an earth observation, monitoring, and visualisation system that integrates satellite and other geospatial data for improved scientific knowledge and decision-making by managers, researchers, students, and the general public. Initiated by NASA and USAID, SERVIR has been recognised by the Group on Earth Observations (GEO) as an early achiever of the GEO vision. SERVIR provides a model for building the capacity of countries to use earth observations and geospatial information technologies in regions around the world. The International Centre for Integrated Mountain Development (ICIMOD) has been promoting the use of geographic information and earth observation applications to support the development and adoption of mountain policies and practices in the Hindu Kush-Himalayan region. In the context of achieving the common goals, USAID, NASA, and ICIMOD have joined hands to work together to establish SERVIR-Himalaya as the third regional SERVIR operational facility.

The Regional Inception Workshop is being organised to introduce SERVIR-Himalaya to the stakeholders from the Hindu Kush-Himalayan region and engage them in the process of defining the needs for development and effective use of information products, services and applications.

Preliminary Programme (at time of going to press, subject to change)

SERVIR-Himalaya Inception Workshop

Venue: Conference Hall, ICIMOD Headquarters

7 October 2010 (Thursday)

Time	Description	Speakers (tentative)
8:30 – 9:00	Registration	
	Opening Session	
9:00 – 09:10	Introduction to workshop	Birendra Bajracharya, ICIMOD
9:10 – 09:20	Welcome remarks	Madhav Karki, DDG ICIMOD
9:20 – 09:30	Introduction to SERVIR Program	Dan Irwin, NASA
9:30 – 09:40	Remarks by USAID	Carrie Stokes, USAID
9:40 – 09:50	SERVIR Himalaya initiative	Basanta Shrestha, ICIMOD
9:50 – 10:00	Remarks by Chief Guest	Manohar Bhattarai, Vice Chairman, High Level Commission for Information Technology, Government of Nepal
10:00 – 10:30	<i>Group photo and tea break</i>	
10:30 – 13:00	Main Session Facilitated by USAID, NASA and ICIMOD	
	SERVIR Himalaya: Expectations and Challenges <ul style="list-style-type: none"> • Findings from initial assessment and International Symposium 	Birendra Bajracharya, ICIMOD
	Group work on thematic areas <ul style="list-style-type: none"> • Identification of stakeholder and key applications • Priority products and services • Policy issues • Institutional arrangements for participation and collaboration in SERVIR 	All participants
13:00 – 14:00	<i>Lunch break</i>	
14:00 – 15:00	Group presentation	
15:00 – 15:15	<i>Tea break</i>	
15:15 – 17:15	Plenary discussion	
17:15 – 17:30	Closing and way forward	Madhav Karki, DDG ICIMOD

General Information for Participants

Weather in Kathmandu

Generally the weather in October in Kathmandu is pleasant and the start of the tourist and trekking season in Nepal. Temperatures vary from 28°C maximum (day) to 12°C minimum (night). Light warm clothing and a jacket are recommended, there may be still be some rain. Dress for all events and social events is smart casual.

Currency

Facilities for currency exchange are available at the hotel and at banks. Several money exchange centres also exist at various places in Kathmandu. All convertible currencies are accepted. The present rate of exchange is around US\$ 1.00 to NRs 74.00.

Symposium venue

Hotel Soaltee Crowne Plaza Kathmandu

Post Box 97, Tahachal, Kathmandu, Nepal

General Line: +977 1 4273999 | Fax : +977 1 4278555, www.crowneplaza.com/kathmandu,

Registration

Registration will take place on 4th October 2010 at the Registration/Information Desk in front of the Megha Malhar hall from 7:30 am onwards at Hotel Soaltee Crowne Plaza.

You will be provided with a conference bag with relevant information at your respective hotels. Please request at the front desk while checking into the hotel. You are requested to wear your symposium name tags throughout the sessions.

Self-sponsored participants may pay the symposium fee at the registration desk as follows:

- International participants – 250 USD
- Regional participants/Nepalese from outside Nepal – 150 USD
- Local participants – 50 USD

Reimbursements (ICIMOD sponsored participants only)

Travel costs will be reimbursed after submission of a copy of tickets, boarding pass, and original receipts. (Please bring photocopies of your passports and air tickets for timely processing.)

- ICIMOD will bear en route costs where necessary, as per ICIMOD norms, on the basis of actual hotel costs, airport tax and visa cost upon presentation of original bills.
- A travel expense form is enclosed in the conference bag which should be signed and submitted to Liza Manandhar or Pramila Shrestha for reimbursement on the first day of the workshop.
- Meals (breakfast and dinner) are provided at your hotels; no per-diem will be paid.

Accommodation and meals

Please note that during your stay at the hotel, each individual will be responsible for any incidental charges posted to the room account. This includes laundry, telephone and internet, salon or spa, gift shop purchases, room service, minibar, and others, and any beverages or meals charged to your room from other locations within the hotel.

Shuttle bus service

There will be a shuttle bus service from Hotel Himalaya, Hotel Greenwich Village, Hotel Grand, and Hotel Ambassador to the symposium venue at Hotel Soaltee Crowne Plaza on 4, 5, and 6 October. The shuttle bus will leave at 08:00 (sharp) in the morning and will drop you after each day's programme. Should you have any query with regard to shuttle, please contact Liza Manandhar, Imanandhar@icimod.org, Exhibitor stall, please contact Govinda Joshi at gjoshi@icimod.org; Tel: 977-1-500322; Mobile: 9841-470-177. Please note that airport pick-up and drop services are arranged by the respective hotels, please enquire at the hotel reception.

Notes for presenters

Please give your presentation file to the responsible theme coordinator or symposium secretariat in advance. You will be given 15 minutes (strict limit) for your presentation and 5 minutes for discussion. We appreciate you submitting the full paper within the stipulated deadline as well for the symposium proceedings.

Notes for poster presenters

Please hang your poster on 3rd October evening in the Poster Pavilion. You will be given a poster ID and name, and a poster stand will be assigned to you. Please note that the Exhibition and Poster Pavilion will be opened immediately after the inaugural ceremony on 4th October. Should you have any queries with regard to poster presentation, please contact Govinda Joshi at gjoshi@icimod.org; Tel: 977-1-500322; Mobile: 9841-276-856.

Notes for exhibitors

Please display your exhibition materials on 3rd October evening. You will be assigned an exhibition stall with your company name. Please note that the Exhibition and Poster Pavilion will be opened immediately after the inaugural ceremony on 4th October. Should you have any query with regard to the Exhibitor stall, please contact Govinda Joshi at gjoshi@icimod.org; Tel: 977-1-500322; Mobile: 9841-276-856.

Contact information

You are welcome to contact theme coordinators or the symposium secretariat for any assistance during your stay in Nepal at the following numbers shown below.

Contact details

Session	Title	Coordinator	Tel. Number	Email
Thematic Session I	Space based information for disaster risk management	Amarnath Giriraj	9808030585	agiriraj@icimod.org
Thematic Session II	Remote sensing of cryosphere (snow cover mapping and modelling)	Deo Raj Gurung	9803681002	drgurung@icimod.org
Thematic Session III	Remote sensing of cryosphere (glacier mapping and monitoring)	Samjwal Bajracharya	9841234255	sabajracharya@icimod.org
Thematic Session IV	Spatial decision support system (DSS) for ecosystem management	Sudip Pradhan	9841817840	supradhan@icimod.org
Thematic Session V	Land cover change, and carbon stocks	Hammad Gilani	9808004710	hgilani@icimod.org
Thematic Session VI	Spatial data infrastructure (SDI) for climate change adaptation	Rajan Bajracharya	9851094030	rbajrachayra@icimod.org
Thematic Session VII	Transboundary air pollution monitoring and modelling	Bidya Banmali Pradhan	9851058805	bbanmali@icimod.org

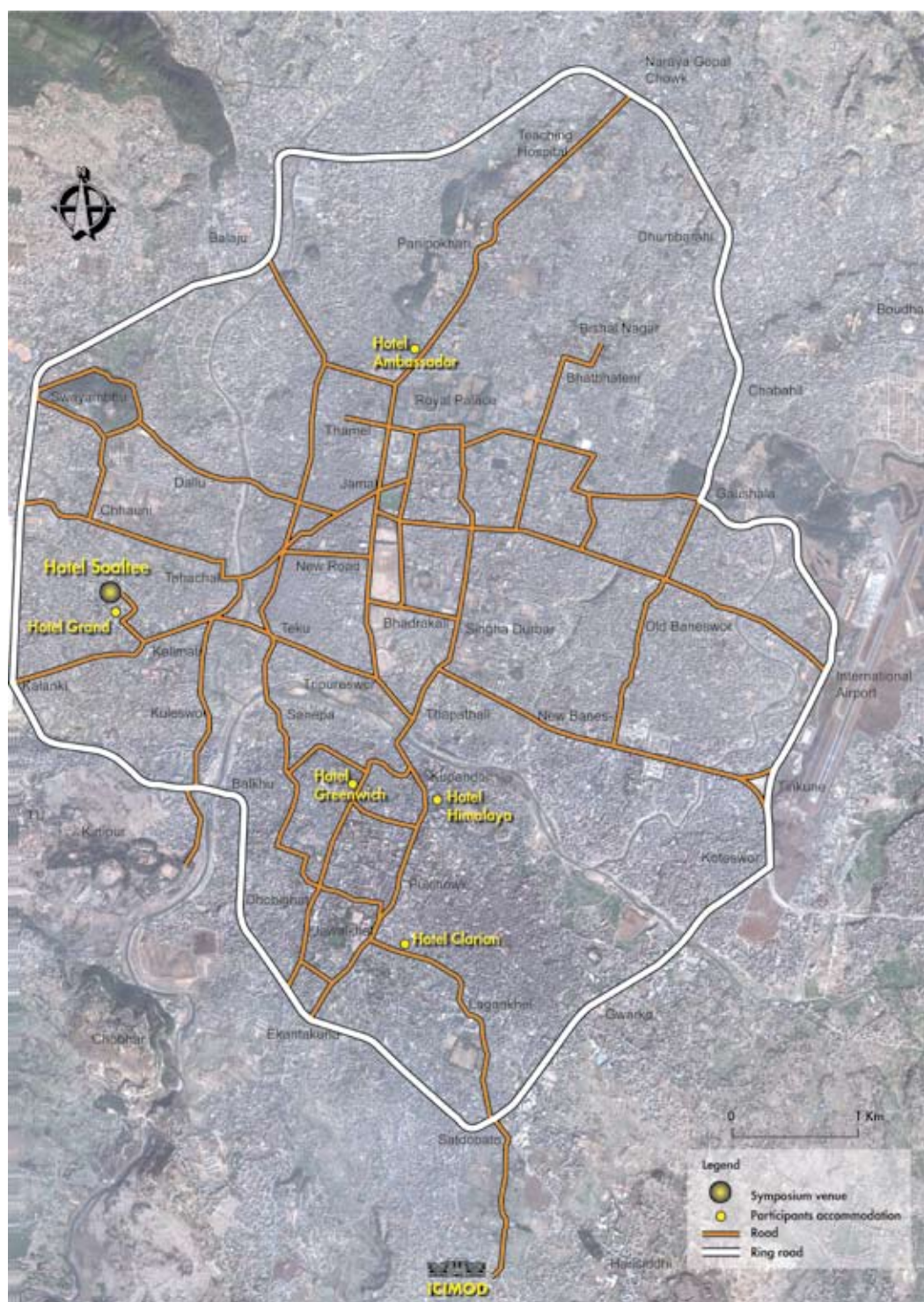
Symposium Secretariat

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We wish you a fruitful symposium and enjoyable stay in Kathmandu!!

Map of Kathmandu





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