

# Heart of Borneo

## Three Borneo governments take action to value Biodiversity at UN CBD in Nagoya

Impressive developments being made in the HoB were showcased at the recent UN Convention of Biological Diversity (UN CBD) in Nagoya, Japan. A side event on October 25 was jointly hosted by the three HoB governments and saw the launch of the latest publication, *Financing the Heart of Borneo - A Partnership Approach to Economic Sustainability* as well as a number of international voices and declarations of support.

This year's HoB event was led by Dr Ahmed Djoghlafl, the Executive Secretary to the UN CBD who opened proceedings with a rousing address. He applauded Brunei, Indonesia and Malaysia for translating their vision into action through the Heart of Borneo Declaration and highlighted the symbolic value of the new sustainable finance report.

"It is an important publication for the negotiators of this Convention, as it shows how the ecosystems of HoB can be part of a sustainable future. It is a call to stop talking and start acting," Dr Djoghlafl said. He also encouraged the Conference of the Parties (COP) participants to take lessons from the three HoB countries who are working together to develop practical and sustainable means for preserving the unique, shared HoB landscape.

A range of international guests also took the opportunity to congratulate the three HoB Governments on their progress and several outlined the ways in which they intended to support the initiative and the new report. These included delegates

*"It is a call to stop talking and start acting" Dr Ahmed Djoghlafl*



*Jim Leape, WWF Director General was present to reiterate the organisation's ongoing support for the HoB Initiative*

from Japan, China, Korea, UK, Germany and the US, multilateral and bilateral agencies, private sector groups and international NGOs and various academia and media partners.

Asian Development Bank's Director of Regional and Sustainable Development Department, Mr Nessim Ahmad expressed support for the HoB, not only for its significance in biodiversity protection, but also to support sustainable economic development in Borneo. Chris Knight, Manager of the Sustainability and Climate Team of international consulting firm, PriceWaterhouseCoopers, said the private sector was also interested in supporting this important Initiative. Jim

Leape, WWF Director General, confirmed the HoB as a priority area for WWF globally and pledged the organisation's continued support in delivering the vision of the HoB Declaration.

Another powerful moment during the 90 minute event came from Pak Lewi, Customary Leader and Head of ORMADAT (Alliance of Indigenous Peoples of the Highlands of Borneo). Mr Lewi spoke about the importance of the HoB for the communities living in and around the focus area and reinforced the human imperative to protect resources, improve livelihoods and build a sustainable future for the indigenous communities.

The conservation aims of the Heart of Borneo Initiative are intrinsically linked to the goals of the UN CBD, making this biannual conference the ideal platform from which to profile the Initiative's progress and seek international support for the ambitious plans for the future. This was the third COP convened since the inception of the HoB Initiative, and the program has used all three CBD events in Brazil (2006), in Bonn (2008) and Nagoya (2010) to celebrate the amazing and unique biodiversity of the Heart of Borneo.



*Pak Lewi (L) and Pak Gat Khaleb (R) Head of NGO, Tana Tam from FORMADAT address the crowd*

On behalf of all of the Heart of Borneo team,

we hope you enjoy a safe holiday and a happy New Year of forests.

# Turning out the lights on 2010



From  
**Adam Tomasek,**  
**Leader, Heart of**  
**Borneo Initiative**

In the last Newsletter I mentioned the collaborative work we have been doing to support the design and delivery of a green economy within the Heart of Borneo. I am very happy to say that as we close out the year 2010, the Shareholder Group of the Heart of Borneo Network Initiative has just enthusiastically approved our updated strategic plan. So now we move ahead into 2011 with full commitments to support this innovative yet challenging new phase of WWF's Heart of Borneo Initiative.

But before we jump ahead into next year, I want to bring your attention to some significant achievements that were realized since the September issue.

In October, the Heart of Borneo was the only priority forest program specifically named within the new *US-Indonesia Comprehensive Partnership*. We expect the bilateral cooperation and financial

support for conservation in the HoB to greatly increase over the coming years. This exciting development was made official during the visit of President Obama (and First Lady) to Indonesia, during which I was lucky enough to attend the closed briefing with the U.S. diplomatic community in Jakarta.

In November, WWF and the State Government of Sabah co-hosted an international conference entitled: *Forest and Climate Change: Decoding and Realising REDD+ in the Heart of Borneo*. This major event (to our knowledge the largest multistakeholder REDD+ conference held in Asia) brought together nearly 500 participants from government, private sector and civil society. Owing to its leadership on the Heart of Borneo, the State Government of Sabah committed to develop a state-wide REDD+ framework and to work closely with WWF to help design the institutional arrangement, legal and policy framework and financing mechanism options.

In December we initiated the technical and policy work which explores the economics of the ecosystem services and biodiversity in the HoB. This brought together 55 participants, including four Indonesian government ministries, six aid agencies, experts from the private sector and WWF staff from Indonesia,

Malaysia and the US. This workshop built the foundations for assessing and valuing HoB's natural capital, and integrating these values into economic development planning and policies. The next step is to refine initial maps, values and scenarios with government and private sector partners in early 2011.

Also during UNFCCC COP16 in Cancun we worked closely with a number of partners to have WWF President, Yolanda Kakabadse join a private meeting with Pak Kuntoro (Chair of Indonesia's new REDD+ Taskforce), Minister Solheim (Norway), Achim Steiner, Sir Nicholas Stern, George Soros, Pavan Sukdev and several others. The meeting explored the ways that REDD+ financing could kick-start a shift toward a green economy in Indonesia and explored the next steps to be supported by a coalition of partners, including WWF. The impetus for inviting WWF to this esteemed meeting was due to both our global leadership on REDD as well as the evolving work we are doing around a green economy in the Heart of Borneo.

This Newsletter explores these and several other exciting updates related to the Heart of Borneo Initiative. I am sure you will join me as we reflect and celebrate a year of great progress. I want to thank each and every one of you for your support, collaboration and continued interest in this Initiative.

As we close an eventful, productive and insightful 2010, I can already see the beginnings of more successes to come in 2011.

## Our Team

WWF Indonesia welcomes Elisabeth Wetik, who has joined the HoB team as National Communications and Campaign Officer. Elisabeth will work to deliver the message of conservation and sustainable development to a national and local Indonesian audience, as well as working closely with the HoB International Network.

Elisabeth has a Bachelor of Science in Biology from Gadjah Mada University and a Master of Environmental Management from Flinders



University, South Australia. She has experience as a communicator with several NGOs in Kalimantan and is excited about working on the HoB Initiative.

"It will be a great and unforgettable experience to be part of such a great team in delivering sustainable development and conservation in one of the most important ecosystems in the world," she said.

Contact Elisabeth at: [ewetik@wwf.or.id](mailto:ewetik@wwf.or.id)

# Brunei's role in the Heart of Borneo

The HoB Declaration of February 2007 commits the three Bornean countries to a shared vision, but leaves it to each of them to decide on their national programmes.



**Dr Mikaa'il Kavanagh MBE,** former CEO of WWF-Malaysia and Special Advisor for HoB gives an overview of Brunei Darussalam's approach to the Initiative

Brunei contributes the smallest share of HoB's area - less than 2% - yet it has allocated by far the biggest national percentage (58% of its own land) to the HoB. It is in many ways 'the beacon' of HoB, being the first draw up a national plan (its HoB Project Implementation Framework) with support from Brunei Shell in 2008.

The national effort is led by the Ministry of Industry & Primary Resources and guided by a Council that takes a holistic view of what needs to be done. It is planned that the Council will have a national HoB Centre as its operational arm, but in the meantime, the Forestry Department is playing that role. As a collective effort, support comes from numerous government agencies, corporations, WWF and other NGOs. Ultimately, this concerted effort owes its energy to the clear endorsement that has come from the very top: His Majesty the Sultan has given HoB a very clear green light.

Shell, HSBC, Standard Chartered, the UK government and WWF are all supporting HoB projects. Among these, Universiti

Brunei Darussalam (UBD) has joined forces with a global US Smithsonian Climate Change programme to establish a permanent forest plot to monitor the impacts of climate change on forests; management research has begun on the country's uniquely well conserved peatlands which help to mitigate

climate change by storing carbon in deep layers of decaying vegetation; and UBD has started a faunal survey to record the diverse wildlife in the forests of Sungei Ingei, just across the border from Sarawak's Mulu National Park. Outstanding among some of the other work that is happening, a lot of people have planted a lot of trees to help regenerate patches of damaged forest under the International School Brunei's Million Trees programme.

The general public in Brunei mostly know about HoB and casual conversations with folks from cabbies to corporate chiefs show that they are interested and supportive. The next challenge that has to be met is to show how HoB can fit into the overall national development plan as an economically viable form of land-use, while protecting Brunei's natural heritage. The task is complex and will involve many agencies, making it critically important that the proposed national HoB Centre be established as soon as possible to support the leadership of the national HoB Council in facilitating the overall effort.

## Brunei Darussalam Minister of Development highlights HoB in Cancun

Speaking at the United Nations Climate Change Conference (UNCCC) in Cancun, Mexico, 2010 which took place from Dec 7-10, Brunei's Minister of Development outlined the reasons behind his government's decision to designate around 58 per cent of its total land area for forest conservation in the 'Heart of Borneo Initiative'.

"As a constituent of the global community, Brunei has and will, to the best of its capability, implement mitigation and adaptation measures to address climate change," The minister said. He also highlighted the impact of climate change being experienced by Brunei such as unusual wet weather conditions causing floods in many parts of the country. - *Courtesy of Borneo Bulletin*



## Moths held up as role models for guiding conservation priorities in HoB.

A recent report published by a group of international scientists has articulated the value of invertebrates within the Heart of Borneo, specifically moths. The report titled *Predicting geometrid moth diversity in the Heart of Borneo* outlines the methods through which insect biodiversity data can be made available for regional conservation planning. Although comprehensive maps of regional biodiversity are so far lacking for tropical insects, such data could be important to guide conservation priorities in the future.

Most of the priority areas identified were situated in the adjoining highland areas of Borneo, underlining the importance of existing protected areas, such as Mt. Kinabalu, the Crocker Ranges and Gunung Mulu National Parks. The results also point out a number of yet unprotected regions of high diversity, including Sabah's Trus Madi range, the Mueller range and the highlands along the Sarawak-East Kalimantan border.

The modeling approach used exemplifies what spatially scattered field data on invertebrates can contribute to the implementation of conservation programs. The data also strongly support the need for the Heart of Borneo Initiative as a way to protect the diverse habitats and ecosystems across the island.

Source: *Predicting geometrid moth diversity in the Heart of Borneo.* (Jan Beck, Wolfgang Schwanghart, Chey Vun Khen and Jeremy D. Holloway)

# Heart of Borneo: WWF-Malaysia update



An update on Malaysia's commitments to the Heart of Borneo Initiative from Ivy Wong, WWF Malaysia HoB National Coordinator.

In a clear sign of support, the Federal Government of Malaysia has allocated financing for HoB priorities under the 9<sup>th</sup> and 10<sup>th</sup> Malaysia Plans. The State of Sabah has led the way on developing integrated HoB programs, including establishment of new protected areas, moving forest management towards sustainability and forest restoration

programs, species conservation and REDD+. Although Sarawak has yet to finalize a state-wide HoB plan, progress is being made partly due to a growing acceptance to partner with WWF.

Overall WWF continues to play a key role in delivery of the HoB programs in Malaysia. WWF has provided significant support to build capacity for HoB implementation in Malaysia. GFTN is a key business engagement tool that has opened the door to FSC and to the forestry sector in Sarawak. In Sabah, much emphasis lies on forest restoration contributing to a viable landscape for orangutans and elephants. The National Toolkit on HCVF has improved the understanding within the forestry sector to make such assessments prior to any activities on the ground. Engagement

with local communities in the highlands has focused on responsible natural resource management and alternative economic development options. Workshops on wildlife trafficking among the judiciary systems, customs and immigration agencies in both states of Sabah and Sarawak were held. Conferences were held on forest connectivity which identified roles of forest ecosystems to support wildlife populations and within the evolving policy context on safeguards for biodiversity.

A REDD Readiness Phase is being built among key government agencies at the sub-national level to culminate in a consolidated national approach in Sabah. As the key country with borders with both other HoB members, leadership on trans-boundary engagement is critical for Malaysia.

# Heart of Borneo: WWF-Indonesia Update



Wisnu Rusmanto, WWF-Indonesia HoB National Coordinator, gives an overview of progress of the initiative in Indonesia

Central to the success of the Heart of Borneo Initiative is the enhancement of transboundary collaboration. This can be achieved through the incorporation of local interests in short and long-term planning, sustainable financing and the cooperation of the private sector and civil society in establishing sustainable resource management practices. HoB activities in Indonesia have the support from 11 ministries that constitute the Government of Indonesia's HoB National Working Group; the umbrella organization consisting of three provincial working groups and 10 district working groups.

WWF-Indonesia's role within the National HoB working group is to actively support the facilitation, coordination and endorsement of the HoB Declaration and other relevant activities. HoB National, Provincial and

District Working Groups also work very closely with other relevant stakeholders (such as private and community groups) at the local level.

## Recent progress of HoB in Indonesia:

- **Indonesia's activities** around the HoB Program will be initiated by formalization of Indonesia's *HoB National Strategic Plan of Action*. Already, the active participation of local stakeholders within the preparation of this document has been crucial in shaping this as a suitable and appropriate course of action.
- In **conservation** management, HoB has worked to ensure integrated protected areas, such as development of wildlife corridors to link national parks Kayang Mentarang and Betung Kerihun as well as Betung Kerihun and Danau Sentarum. Muller-Schwanner Mountain Range is now being studied to find the best scenario for its establishment as a Protected Area.
- Ongoing **species conservation** work is being conducted to ensure long term survival of Indonesia's biodiversity, including the Pygmy Elephant, Orangutan as well as Banteng (wild cattle) and the Mahakam dolphin.

- Work to facilitate **sustainable landuse** requires the formal endorsement of the Government of Indonesia and WWF-Indonesia is helping to develop a presidential decree for the boundary plans. The HoB also continues to work closely with local governments throughout the HoB to align their special planning with the designated nationally strategic area.
- The development of **sustainable financing** involves the exploration of various scientific and local wisdom-based initiatives. Some options being considered to assist in the development of a local 'green economy' include ecotourism, carbon trading through REDD schemes, compensation for watershed management and utilization of other natural services.
- **Sector reform** in the HoB requires the participation of key players from extractive industries operating within Kalimantan including palm oil, mining, forest concessions and logging. To assist these companies to reduce the rate of forest conversion, WWF-Indonesia provides continued support for their integration into the Roundtable for Sustainable Palm Oil, Forest Stewardship Council certification and improved forest management.

# Sabah government sees REDD in the Heart of Borneo

The State Government of Sabah (Malaysia) and WWF co-hosted the region's largest conference on Reducing Emissions from Deforestation and Destruction (REDD) in Kota Kinabalu, Sabah, in November.

Attended by nearly 500 delegates, the two-day conference: *Forest and Climate Change: Decoding and Realizing REDD+ in the Heart of Borneo with special emphasis on Sabah*, brought together perspectives and advice on policy, technical and capacity building issues involved in making REDD a reality in the HoB.

Speaking at the opening of the conference, Datuk Sam Mannan, Director of Sabah's Forestry Department, said the conference aimed to raise awareness of the role forests played in mitigating climate change and the application of mechanisms such as REDD to add tangible value to forest protection and sustainable development efforts.

## WWF to play key support role for Government

A key message to emerge from the conference was that WWF is recognized as the lead organization in Malaysia to help move REDD+ forward at the sub-national level in the Sabah portion of the Heart of Borneo.

*"This conference showed that the Heart of Borneo portion of Sabah is a key location for the Malaysian government to implement REDD+ initiatives" Ivy Wong, WWF-Malaysia*

WWF Malaysia (with support from HoB and Forest Carbon Network Initiatives, WWF-NL, WWF-UK, WWF-NL and other network offices) is now positioned to closely collaborate, and in some aspects take the lead in assisting the Government of Sabah to develop carbon accounting, institutional arrangements, legal & policy frameworks and financing mechanisms.

Speaking after the conference, WWF Malaysia's HoB National Co-ordinator, Ivy Wong, said the Government of Sabah has taken ownership of the HoB and sees it as the platform to deliver the first comprehensive REDD+ Process (the Readiness Phase) within the Borneo state.



Ivy Wong and Mr Donald Kanak, current advisor to the WWF Forest Carbon Initiative and Chairman of Prudential Insurance, who was a keynote speaker at the conference

"This conference showed that the Heart of Borneo portion of Sabah is a key location for the Malaysian government to implement REDD+ initiatives. As the government moves forward with the planned Carbon Accounting process, it needs to be driven at the sub-national level and then move up to the national level."

Ms Wong, however, noted that it was not just about carbon accounting, monitoring and verification.

"It is about valuing the environmental services that the forest brings and establishing the institutional arrangements, legal and policy frameworks and financing mechanisms to make that value tangible and REDD+ a reality," she said.

Local, regional and international experts and partners are now engaged and interested to work on moving REDD+ forward in Sabah. WWF Malaysia and the HoB NI will be supporting the mainstreaming of REDD+ into the national agenda and across different ministries and agencies, with a focus on its relevance to economic development and land-use planning.



CEO of WWF-Malaysia, Dato' Dr. Dionysius Sharma (right) with former Prime Minister of Malaysia, Tun Abdullah Ahmad Badawi (middle) and Tun Jeanne Abdullah (left)

# Getting the message across

Communications professionals and field staff from WWF Indonesia gathered in Lanjak, West Kalimantan in November, to share information, explore new communications ideas and build advanced media skills.

The workshop was funded and organized by the Heart of Borneo Initiative with logistical support from WWF Indonesia's West Kalimantan communications team.

Using a variety of presentation formats including power-point, video, participatory role playing and group exercises, the workshop explored a variety of communication scenarios including crisis management and interview preparation.

The workshop was fortunate to draw communicators from several teams within the WWF Indonesia network, such as the Forest, Species & Freshwater and Climate & Energy programs, providing ample opportunity for 'cross fertilization' of ideas.

Chris Chaplin, WWF International's recently appointed media officer for the Asia Pacific was also present to introduce a regional perspective to the workshops. Chris, who is based in Singapore, shared

some valuable insights into WWF International's media engagement in the Asia Pacific and in return was afforded a number of first-hand stories about WWF Indonesia's projects.

"Having only recently assumed my new position in Singapore, the workshop was an excellent opportunity to acquaint myself with WWF Indonesia's Communications team and their priority areas. The combination of training exercises, updates and a field visit allowed all of us to have some very useful discussions," Chris said.

ground. She also stayed on in Borneo after the workshop to travel into the field with the rest of the team and provided invaluable assistance in collecting a number of excellent stories about WWF's work in the Heart of Borneo.

HoB International Communications Manager, Chris Greenwood, said the opportunity for WWF Indonesia communicators to get together in the field was a very instructive and valuable one. "In the communications part of this course we were trying to help participants identify what makes a story 'newsworthy' from both a local and international perspective. The second part of the course dealt with the often thorny issue of actually dealing with the media face-to-face on issues of importance to WWF," he said.



WWF Indonesia - Annisa Ruzur

## Journey into the Heart of Borneo

Head to [http://www.wwf.or.id/en/about\\_wwf/whatwedo/hob/hobresources/photos\\_gallery/danau\\_sentarum\\_journey.cfm](http://www.wwf.or.id/en/about_wwf/whatwedo/hob/hobresources/photos_gallery/danau_sentarum_journey.cfm) where you can view a collection of photos from Communications Team's November expedition to Danau Sentarum National Park, West Kalimantan. Follow the team in this photo essay as they meet the people and wildlife living deep in the Heart of Borneo.



(c) WWF-Indonesia

In the hot seat! Ery Bukhorie, Communications co-ordinator with the Kayan Mentarang project in East Kalimantan, responds to intense questioning by 'would be' investigative reporter, Masaya Yulien Vinanda, WWF Indonesia's media content development officer.

Gretchen Lyons, Manager, Conservation Communications, based in Gland, Switzerland was also a very welcome addition to the group. Gretchen outlined a number of WWF International's exciting new communications initiatives, including the Story Bank, which aims to share interesting and colourful stories from around the WWF network, as a way of illustrating WWF's work on the

"The section on crisis management was particularly well received. We set up a number of 'crisis scenarios' and workshop members took turns to front the camera to explain the WWF position on these difficult issues. For some, the experience was nerve racking, but we also unearthed a few media talents who could potentially be key spokespeople for the organization," he said.

## Public debates in HoB area open new dialogue between governments and civil society

The first of a series of public discussions took place in Pontianak, West Kalimantan from 25-27 November 2010, as part of an initiative of WWF Indonesia, supported by WWF-Sweden and the Swedish International Development Cooperation Agency.

The debates were planned to generate informed dialogues about sustainable development, between civil society, local government and NGOs within the Heart of Borneo. The sessions were attended by around 50 representatives from local Civil Society (CSO's) and Community-Based Organizations (CBO's) as well as communities, universities and district governments. The event was opened by the head of the HoB Working Group for West Kalimantan and was facilitated by a consortium of local NGOs with support from the WWF-Indonesia West Kalimantan team.

The expectation is that the public debates will develop solutions for local governments to engage in the drafting of district workplans in West Kalimantan and 'green' their economic strategies. The discussions also aim to strengthen the voice of civil society and reinforce the role they play in sustainable development in the HoB. "Sustainable development depends on stronger 'green' and 'pro poor' economies at local and regional level," said Cristina Eghenter, Social Development Senior Adviser for WWF-Indonesia. Eghenter is coordinating the series of public

*"Sustainable development depends on stronger 'green' and 'pro poor' economies" Cristina Eghenter*



West Kalimantan Team / WWF-Indonesia

*A diversity of stakeholders actively participated in the debates and discussions*

debates with the HoB program and went on to say that, "a Green Economy can provide the right umbrella to drive meaningful transformation towards more sustainability and well-being."

The opening panel discussed existing community initiatives which focus on the sustainable use of resources within two districts in the HoB area. They also explored the various efforts being made to advocate for a more rights-based approach to resource management in West Kalimantan. These were then

followed by presentations from two experts who explained the principles of a Green Economy and painted a picture of what a Green Economy framework could look like in West Kalimantan.

All stakeholders actively participated in the discussions and produced several valuable recommendations, including important principles and criteria that could frame green economic alternatives. The group also delivered suggestions to guide natural resource governance and policies to promote growth for the benefit of the people living within the Heart of Borneo.

Some of the discussion areas included:

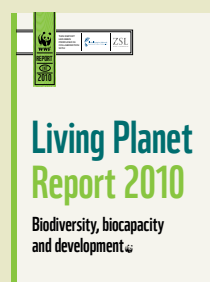
- The value of ecosystems;
- Forest-based economies;
- Natural capital and social justice;
- Investment in biodiversity products;
- Local manufacturing and processing;
- Methods for monitoring and measuring;
- The role of social movements and coalitions.

A follow-up action plan was agreed upon and a consortium of local CSOs and CBOs has committed to further advocating for the adoption of some key points in favour of sustainable development. It was also decided that the recommendations be read at the planned HoB Working Group consolidation meeting to be held in West Kalimantan some weeks later. The next event will be held in Central Kalimantan in January 2011, in a province that has already declared itself as a "Green" province.

### **Living Planet Report: Governments, businesses and consumers all "have a role to play" in the development of a Green Economy**

WWF's recent *Living Planet Report* (LPR) featured a strong message of support for the development of a green economy. The 100 page report launched on October 13 demonstrated the adverse impacts of environmentally unsustainable economic growth and built the case for governments and industry to incorporate the value of natural capital into their policies.

"In a green economy, economic thinking embraces people and the planet," explains the report. "Governments in their policies, businesses in their practices and consumers in their choices. They all have a role to play."



The findings in the LPR reinforced the work currently being undertaken in the HoB, which is home to at least half a million people who rely almost entirely on local natural resources for their livelihoods. The HoB initiative is committed to working with business, governments and communities to assist them in developing sustainable practices that ensure economic prosperity without it costing the earth.

The LPR has been published every two years since 2000 and has become the leading international publication on the state of the planet, its biodiversity and the human footprint. For highlights or to download the full report head to [www.panda.org/lpr](http://www.panda.org/lpr).



# The Heart of Borneo: what is it worth?

**A diverse audience of 55 people gathered in Jakarta from 1-3 December with a view to answer that very important question.**

The three-day 'kick-off' workshop, *'The Economics of Biodiversity and Ecosystem Services to guide Policy, Finance and Private Sector Decision-making in the Heart of Borneo Landscape'*, was hosted by WWF-Indonesia and included a diverse range of participants across the various sessions.

Development partners (UKG, DFID, FAO, UNDP, UN-REDD) and government agencies (Indonesia's Coordinating Ministry of Economic Affairs, and Ministry of Environment, Forestry and Public Works) joined the opening sessions. Also in attendance were international consulting firms PriceWaterhouseCoopers, Hatfield and Witteveen+Bos, representatives from University of Indonesia and staff from WWF US, Malaysia and Indonesia. This first day focused on the HoB's approach to building a 'Green Economy' and the important role of ecosystems services in this process. Presentations from HoB Leader Adam Tomasek and Dr Andrew Thurley (PriceWaterhouseCoopers) as

well as Anna van Paddenburg (WWF HoB Sustainable Finance Leader) and Nirmal Bhagabati (WWF US, InVEST specialist) provided a broad overview of the key strategic considerations specific to the HoB area.

The subsequent two days saw WWF staff, partners and external experts continue to address links between ecosystem services and a green economy and learn about InVEST (Integrated Valuation of Ecosystem Services and Trade-offs), a GIS tool which maps out and assesses the value of biodiversity and ecosystem services within any given landscape. WWF staff from Kuala Lumpur, Kota Kinabalu, Jakarta, Kalimantan, Sumatra and Papua also played a crucial role in providing realistic context and extensive expertise to the discussions.

### Setting the Scenarios

The workshop brought the HoB and partners closer to developing a range of genuine 'scenarios' which help predict potential future development

alternatives. Scenarios aim to present such alternatives as, "how will the landscape look in 30 years if we don't consider ecosystem services in development plans and how will it look if we do?" It is hoped that these scenarios will assist in drawing a direct link between value of each ecosystem service (such as watershed, carbon stocks, soil and climate) and its impact upon the local economy and livelihoods.

Leading up to the second round of workshops planned for March 2011, the HoB team and other key partners will be working with key decision makers within the government and private sectors, to expand and further create scenarios relevant to their development objectives and resource uses. It is hoped that the outcomes will be used to pursue spatially explicit, measurable targets which ensure equitable development and maintain nature's valuable biodiversity and ecosystem services.

### Why Natural Capital?

The Heart of Borneo Initiative seeks to encourage the development of an economic environment whereby the forests of Borneo are worth more standing than cut down.

The tropical rainforests in the Heart of Borneo are rich in natural capital which is of great value to all three Bornean countries (Indonesia, Malaysia and Brunei). To be able to integrate the value of nature, all stakeholders (governments, business and communities) who play a role in the management of this landscape need to better understand the economic value of biodiversity and ecosystem services, its potential for carbon emission reduction and the distribution of ecosystem services to users and beneficiaries.



(c) WWF-Indonesia

Participants from a diverse range of sectors gathered at the opening sessions on December 1, 2010



# Honey farmers branch out in Kapuas Hulu, West Kalimantan

By Masayu Yulien Vinanda

Bee farmers in the area surrounding Danau Sentarum National Park in the Heart of Borneo have been experimenting with a traditional means of honey collection using artificial branches, called 'tikung' to attract bees to build hives in flowering trees.

Knowledge of honey farming is contained within stories and lessons of the local culture and the people of Leboyan and Semangit in West Kalimantan have developed niche harvesting practices to suit the unique landscape surrounding their village. Basriwadin who has lived in Semangit village his whole life explained, "A long time ago, when floods hit our village, there was a tree trunk washed away. When the water level went down, the trunk was seen stuck high in another tree and a colony of bees quickly came and built their hive in the driftwood. When a villager combed the bee-hive he harvested lots of honey." This simple observation inspired other villagers to manufacture similar 'tikung' branches using dead wood from the Tembesu tree, a large evergreen tree native to South-east Asia.

"This tikung-board design aims at providing more space for the bees to build bigger nest," Basriwadin added. Tembesu logs are cut into small, curved boards around 1.5 m long and 25 cm wide, which resemble a kite (see picture at right) and strategically placed as an attractive nest for bees thriving in trees in bloom.

Profits from the organic honey are a valuable alternative source of income for these communities, who until recently have relied almost entirely on revenue from fishing for their livelihoods. Honey is harvested during the wet season, which is incidentally when fishing provides the lowest yields, and sold to distribution partners, Forest Honey Indonesian Network and a West Kalimantan-based NGO, Riak Bumi. According to the Forest Honey Bee Collectors' Association in Lake Sentarum (APDS), demand for their unique brand of honey increased 300% in the last three years, producing 16.5 tonnes in the 2008/2009 season and injecting around 462 million (Rp) into the local economy.

The environmentally sustainable processes of honey farming are also well suited to this remote part of Borneo which is also a valuable conservation area. The creation and harvest of beehives requires no irrigation, pesticides or fuels for management and the refinement process is undertaken in accordance with the Internal Control System (ICS) which was previously agreed amongst the farmers to maintain the hygienic integrity of their products.



WWF Indonesia - Jimmy

A traditional tikung board ready to become the home for honey bees after installation in a flowering tree

The APDS currently boasts membership of 217 groups of collectors, known as 'Periau', from within the Danau Sentarum area. There is potential to expand this group attracting membership from another 21 Periau and with this increase, the cooperative revenue could exceed Rp 4 billion per season. As the offered prices and markets for this honey increase, so may the incomes of the people in and around the Danau Sentarum conservation area within the Heart of Borneo.

The HoB Initiative has a keen interest in supporting the people and communities within West Kalimantan and in 2009 contributed revolving funds of Rp100 million per annum for three years to assist the establishment of the APDS. WWF-Indonesia's West Kalimantan Program also engages with the Indonesian Traditional Wisdom Network to support this community enterprise. The WWF team assists in training of the ICS, supports product marketing activities through exhibitions and works to build the self-regulation capacity of APDS members.



WWF Indonesia - Jimmy

Farmers using traditional smoking methods to collect the honey in Danau Sentarum National Park, West Kalimantan

# A day in the life of...



**Jabanus Bin Miun**  
Program Officer,  
Biodiversity Research Team,  
Borneo Species Program,  
WWF Malaysia, Sabah.

*"I really enjoy being in the forest. I like how cool it is and the way the air is so clean"*  
**Jabanus.**

I am 33 years old and married with one four-year-old boy and another brand new baby boy. I live and work in Lahad Datu, a larger port town on the Eastern Coast of Sabah. I work with a team of five others on Biodiversity Research, which focuses on a number of important forests within the Heart of Borneo area.

Although the main office is located in town I spend most of my time out in the forest collecting samples. We spend between 20-25 days of the month in the field, but I usually come back to town by the end of the month. Nights we camp but we also sleep in field huts if they're available where we're working.

On a normal day in the field I will wake around 6am and prepare my breakfast and lunch, which is usually rice and vegetables and sometimes fish and eggs too. We start the trip into the forest around 7.30am where we drive or walk to a nearby focus area.

The main task in our work is to undertake extensive wildlife surveys in the Ulu Segama Malua Forest Reserves in-between Lahad Datu and Kinabatangan. We're interested in identifying food for Orang-utan and Elephant, obtaining samples of common food and sending them to The Forest Research Centre for

chemical composition analyses to study the nutrients that feature in the animals' diets. By doing this, we get to know the health status of these particular animals and can decide if they are getting what they need from their habitat.

I have worked with WWF-Malaysia for 10 years now. My first job with WWF was collecting data about the populations of birds living in Kulamba Wildlife Reserve, on the East Coast of Sabah. I really like birds and I learned a lot about them from that time. My favourite birds are the Bornean Bristlehead and the Pitta.

The hardest thing about my job is definitely the physical challenges and all the walking I have to do. I have to climb so many hills and walk through mud that is so deep that it often comes up to my waist! Also, in the rainy season it can rain very heavily for weeks on end and it's really hard to stay dry or see long distances clearly in this weather...but really, they're not such big problems.

I like my job and I really enjoy being in the forest. I like how cool it is and the way the air is so clean. When I'm in town, I am bothered by how busy and dirty and loud everything is! The forests where I get to work are so much more quiet and peaceful.

## My vision

"In the future, I would like to see North Ulu Segama (NUS) conserved and developed into Primary Rainforest. NUS is in the Heart of Borneo and is one of the last areas that is home to Orang-utan, elephants and other wildlife that are losing their habitats in Sabah.

I would also like to see some wildlife corridors created in this area of Sabah, connecting these special habitats between all of the plantations. This would allow the elephants and large mammals to move around more without disrupting the plantations."

## Heart of Borneo home to one of the greatest species discovered this decade

*Decade of Discovery*, a collaboration between Conservation International and the BBC's Natural History Unit highlighted Chan's Megastick (*Phobaeticus chani*) in a shortlist of their team's favourite new species discovered since the year 2000.

Chan's Megastick measures more than half a metre in length, making it the longest insect on the planet and the rare specimen is believed to exist only in Gunung Kinabalu Park, Sabah, in the Heart of Borneo.



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### Newsletter Editorial Team

Managing Editor - Chris Greenwood – International Communications Manager, Heart of Borneo, [chris.greenwood@wwf.panda.org](mailto:chris.greenwood@wwf.panda.org)

Editor - Freya Paterson - Communications Officer, Heart of Borneo, [hobnivolunteer@wwf.or.id](mailto:hobnivolunteer@wwf.or.id)

### Contributors

Nancy (Ochie) Ariaini - Communications Officer, Heart of Borneo, [nariaini@wwf.or.id](mailto:nariaini@wwf.or.id)

Masayu Yulien Vinanda - Media Content Development Officer, WWF Indonesia, [mvinanda@wwf.or.id](mailto:mvinanda@wwf.or.id)

### Heart of Borneo Initiative Contacts

Adam Tomasek - Leader, Heart of Borneo Initiative, [atomasek@wwf.or.id](mailto:atomasek@wwf.or.id)

Wisnu Rusmantoro - National Coordinator of Heart of Borneo, WWF Indonesia, [wrusmantoro@wwf.or.id](mailto:wrusmantoro@wwf.or.id)

Ivy Wong - National Coordinator of Heart of Borneo, WWF Malaysia, [iwong@wwf.org.my](mailto:iwong@wwf.org.my)

Dr Mikhaail Kavanagh, Brunei Advisor Heart of Borneo, [mikekav@streamyx.com](mailto:mikekav@streamyx.com)

Anna Van Paddenburg – Sustainable Finance Leader, Heart of Borneo, [apaddenburg@wwf.or.id](mailto:apaddenburg@wwf.or.id)

Katie Stafford – Corporate Engagement Leader, Heart of Borneo, [kstafford@wwf.or.id](mailto:kstafford@wwf.or.id)

Elisabeth Wetik - National Communications and Campaigns Officer, Heart of Borneo, WWF Indonesia, [ewetik@wwf.or.id](mailto:ewetik@wwf.or.id)

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