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Mangrove Action Project (MAP) confronted its most difficult, challenging and productive year in 2010. During this time of “Great Recession” the enthusiasm and commitment of our staff, and volunteers contributed to us accomplishing notable achievements. 2010 marked the publication of the 10th annual children’s art competition calendar, as well as the 250th issue of MAP News e-newsletter. While amongst our many campaigns we achieved a breakthrough on Bimini Island in the Bahamas to halt the expansion of resort development.

The MAP team has worked hard all year to expand on our global work of advocacy, networking, education, mangrove restoration and community-based resource management. Most notably our Ecological Mangrove Restoration program raced forward with the development of a series of training workshops and follow-up mangrove restoration projects in both Asia and Central America.

MAP has continued to strive forward during 2010. Utilising our global network and offices to achieve our mission:

“Partnering to conserve and restore mangrove ecosystems and related coastal habitats while promoting community-based management”.

We saw a notable increase in global membership to 3,500 in 2010. I would like to thank all of our supporters, especially as we enter a new year, and an era of funding uncertainty. Our members are of most importance, not only via their financial support, but also in promoting our work.

In addition, our work and successes would not be possible without the support of a number of key foundations, corporations and organizations. I wish to acknowledge the generous support of Firedoll Foundation, Patagonia Foundation, two anonymous foundations and major donors during 2010.

This support, together with our community-based partnership work recognizes the crosscutting importance of our truly grassroots, bottom-up approach to mangrove conservation and restoration issues. We at MAP look forward to continuing this work into the future.

Alfredo Querto, Executive Director.
Mangrove Action Project’s Global Network

3,500 members...

MAP’s global network continued to expand in 2010. There was an increase of over 500 new memberships. We now have over 3,500 members from more than 60 nations, including around 400 Non Government Organization’s (NGOs) and 300 scientists working on mangrove related issues. These members receive MAP’s newsletter, with many sharing information on their work and progress through our global network.

Some members are MAP’s NGO partners, actively involved in projects with MAP, associated with advocacy and conservation. For example, the “Save the Sundarbans” campaign.

MAP Internationally

MAP’s international headquarters are based in Port Angeles, Washington, USA. The MAP USA office provides 4 essential services to grassroots groups and proponents of mangrove conservation:

- Coordination of a unique international NGO network, referral service and information clearing house on mangrove forests;

- Promotion of public awareness of mangrove forest issues;

- Development of technical and financial support for local NGO projects in the global South; and

- Publicizing within the developed nations the basic needs and struggles of Southern coastal fishing and farming communities affected by the consumer demands of the wealthy nations.
International: MAP Newsletter

250th issue produced...

MAP publishes a biweekly, electronic newsletter “MAP News”. This newsletter circulates to in excess of 3500 e-mail addresses, through 60 nations. It contains mangrove related news updates, articles and action alerts from around the world. The milestone 250th issue was published during 2010.

MAP’s News keeps readers abreast of latest developments affecting both mangroves and mangrove communities. It offers a perspective on the latest progress in mangrove conservation and restoration - as well as the latest threats and losses and what is contributing to those losses.

Readers are able to follow the latest trends in global developments affecting mangroves. While recognizing the multifarious forms that threaten these magnificent coastal wetlands, old threats and new ones can be tracked, while hopeful signs of progress in conservation and restoration are publicized.

In 2010, we welcomed Sam Nugent as MAP’s News Editor. Through his guidance we have seen a marked improvement in both quality of presentation and the depth and relevance of its content.
International: Ecological Mangrove Restoration Program

US$10,000 secured...

2010 was an exceptional year for the MAP Ecological Mangrove Restoration (EMR) program. A multi-year program to undertake a series of training workshops and follow-up mangrove restoration projects in both Asia and Central America were developed.

The aims of these workshops are to train a team of EMR practitioners while establishing successful EMR demonstration sites. The intention is to use these sites as working models to illustrate the effectiveness of EMR, as a natural, ecologically balanced approach to mangrove restoration, which intimately involves local community members in the process.

Worked progressed in securing several contacts with potential partners, while proposals and inquiries were sent to potential funders. Partial funding was obtained from the Firedoll Foundation to support a workshop planned for 2011 in Jiquilisco Bay, El Salvador.

A partnership was developed with the NGO EcoViva in El Salvador. With Firedoll’s support grant of US$10,000, MAP was able to establish a working plan for the first EMR workshop in 2011. It is envisioned that this workshop, may be the first in a series in the so-called “Mangrove Corridor” region, which includes El Salvador, Honduras and Nicaragua.

Alfredo Quarto, (MAP Executive Director) visited El Salvador to undertake an initial review of the area and its requirements. On this visit, numerous useful working contacts were made. A government official who was visited suggested that perhaps MAP could take on an advisory role in El Salvador. This could be undertaken by sitting on a committee group working on coastal resource management of the shoreline areas.

Meanwhile, in Asia, Jim Enright (MAP Asia Program Coordinator) prepared proposals for initiating the EMR workshop series in Bangladesh, Cambodia, India and Thailand. Strong interest for the first workshop in this region was expressed by an NGO in Bangladesh.
Every year MAP invites teachers and their students from around the globe to participate in an international mangrove art contest. During the 10 years of this exciting competition, an estimated 25,000 students and dozens of schools in over 35 nations have participated.

This unique collection of children’s artwork from 12 nations is a valuable educational tool for local communities, teachers and children between the ages of 6-14. Monica Guitierrez Quarto is the coordinator for this colorful program. An artist herself she has helped in its design and implementation to inspire thousands of students each year to participate.

In 2010, MAP successfully published its 10th annual Children’s Mangrove Art Calendar for 2011 with children from 12 nations taking part. Through their participation they learn about the incredible beauty and biodiversity of mangroves. Students attempt to depict through their art what they have experienced first hand themselves during their young lives or from school field trips into mangroves and classroom studies. While answering this simple, but intriguing question: “What do the mangroves mean to my community and myself?”.
International:
Save Bimini Island Campaign

*Marine protected area created...*

Save Bimini Island campaign has been ongoing for several years. MAP has worked in alliance with other NGOs and ecologists in a bid to halt the destructive expansion of a massive tourist resort, golf course and marina on Bimini Island in the Bahamas.

In 2010, this international campaign successfully resulted in the stoppage of the golf course and helped catalyze a decision by the government of the Bahamas to propose the creation of a marine protected area in the north of Bimini.

This marine reserve will protect the last stand of mangroves that were scheduled to be cleared had the development proceeded as planned.

Bimini Island was made famous by author Ernest Hemingway in his novel "Island in the Stream". Unfortunately, this modern development disaster has turned it into an "Island in the Extreme".

MAP’s hard work in exposing this issue to the global public was important in finally halting the further destructive expansion of this mega-development.
International: Industrial Shrimp Aquaculture and Certification Issues Campaign

Three international meetings held...

Since 2009, MAP has been involved in planning and coordinating work towards the formation of global alliance against industrial shrimp farming in the inter-tidal zones, in collaboration with other international NGOs. Through this campaign work MAP has aided a better coordinated effort in revitalizing an international movement.

An international meeting of NGOs was held in February 2010 in Khulna, Bangladesh. Following this meeting Alfredo Quarto, (MAP’s Executive Director) assisted in organizing a multi-city tour in Europe during May. The objective of this European meeting was to try to build a network with other NGOs within Europe. Meetings were held in Brussels, Paris and Amsterdam, and plans made to continue the work via a further meeting in Thailand.

In December, a meeting with with the NGO’s network took place in Trang, Thailand. The meeting was joined by grassroots NGOs opposing shrimp certification. Over a two-day session both groups met with representatives from the Shrimp Aquaculture Dialogue (ShAD). ShAD are endeavoring to establish industrial shrimp farming certification standards - of which our global movement is opposed.

During the meeting key issues over differences were discussed. Furthermore, a log frame analysis of our international movement was established outlining clearer objectives and challenges.
US: Question Your Shrimp Consumer Awareness/Markets Campaign

500 additional pledges...

The primary objective of MAP’s 'Question Your Shrimp' campaign is to educate the general public about how their consumer choices in buying shrimp affect mangrove ecosystems, the wildlife and the communities that depend on them. As well as demonstrating the value mangroves provide in mitigating climate change through efficient carbon sequestration.

This campaign utilizes a multi-media campaign and public outreach methods through the Seattle region in the US. MAP continued to expand on the activities of the 2009 'Question Your Shrimp' campaign throughout 2010.

An additional 500 signatures were gathered. These people pledging not to eat imported shrimp. Another 10 restaurants and two retailers in Seattle signed up pledging not buy or serve imported shrimp.

Ten public presentations on the shrimp/mangrove issues, and several radio/newspaper interviews were conducted by Alfredo Querto (MAP Executive Director) and Cara Cruickshank (Campaign Co-Cordinator). While MAP staff and volunteers tabled at several big public events, including the Seattle Green Festival, gathering signatures on our pledges and handing out information about the campaign.
**Latin America / Asia : “Let Them Eat Shrimp”**

**Completed in 2010...**

A new book on the plight of the world’s mangrove forests, which was researched in collaboration with MAP, was completed in 2010. *Let Them Eat Shrimp: The Tragic Disappearance of the Rainforests of the Sea*, was a four-year project. Begun in 2007 when New Zealand-based writer and photographer Kennedy Warne approached MAP for support and information.

MAP helped source initial funding support for the early stages of research and information gathering. Elaine Corets (MAP’s Latin America Coordinator), conducted a two-month field trip with Mr. Warne in 2009. They visited mangrove sites and coastal communities in Brazil and Ecuador.

“Let Them Eat Shrimp” examines the ecological and social costs of mangrove loss. Emphasizing how the western appetite for cheap seafood has destroyed mangrove forests around the world, while stripping their inhabitants of their cultural heritage, livelihoods, and homes.

Throughout the writing of the book, MAP served as an advisor and source of referrals for the author. It is expected that *Let Them Eat Shrimp: The Tragic Disappearance of the Rainforests of the Sea* will be published in March 2011, by leading US environmental publisher Island Press.
Latin America & China: 'Marvelous Mangroves' Curriculum

Brazilian workshop success...

MAP’s curriculum, “Marvelous Mangroves” was first adapted twelve years ago by MAP’s Education Coordinator, Martin Keeley, from hands-on science-based programs and activities that have been used by educators throughout North America during the past 30 years.

Following standard ecology curriculum principles, the guide provides teachers with 300 pages of information and hands-on activities covering everything from migrating birds and the properties of water, to what to do and find on a mangrove field trip. It concludes with what students can do to help protect and preserve mangrove habitat in their own communities.

In 2010 MAP, (in conjunction with local NGOs) held train the trainers workshops in Brazil. The aim was to direct Brazilian teachers how most effectively to utilize the curriculum in the classroom. In addition, collaborating with the Zhanjiang National Mangrove Reserve, the curriculum was introduced into China: following adaptation and translation into Mandarin.

Additionally, during the fall MAP worked with local NGO’s and CORALINA in Livingston (on the Caribbean coast of Guatemala) undertaking a teachers workshop. Preparations were also undertaken with CORALINA to run teachers workshops in the Bay Islands of Honduras, and to re-introduce the curriculum into public schools of the San Andres archipelago and mainland Colombia.
MAP Asia

MAP established its first regional office in Thailand in 2001. Following several years of networking, MAP broadened its scope to oversee projects in both Southeast and South Asia. Strong conservation networks in the region have been developed. MAP-Asia supports co-funding and coordination of projects and workshops through collaborative efforts in the Andaman Islands, Bangladesh, Cambodia, India, Myanmar (Burma), Sri Lanka, and Thailand.

During 2010, the MAP-Asia Regional Office was greatly supported by three volunteer interns who each spent over three months with MAP assisting with office tasks and field based projects.

In early December, MAP-Asia organized a mangrove study trip to mangrove restoration and interpretative sites in Southern Thailand. MAP staff (including Alfredo Querto, MAP’s Executive Director), were joined by a representative of Wetlands International, Thailand and a mangrove ecologist from DHI Water & Environment (S) Pte Ltd, Singapore and a representative of the Swedish Nature Society. This trip proved to be a great opportunity for networking amongst the tour participants and the projects visited.

Jim Enright (MAP Asia Coordinator), was involved in several public relation events through the year. In June, at the invitation of the Global Nature Fund of Germany at the Living Lakes Conference in Ambalangoda, Sri Lanka, Mr. Enright gave a presentation on “Mangrove Protection Strategies”. Another presentation on “Ecological Mangrove Restoration” was given at the World Small-Scale Fisheries Congress held in Bangkok on October 18-22.

Back in November, a lecture on “Working with Mangrove Action Project - a Small NGO” was given to International Development Program students at the University of Waterloo, in Canada.
Thailand: Ecological Mangrove Restoration

Two demonstration sites completed...

The EMR e-group is administered by Jim Enright, (Asia Coordinator). It is one of the tools used for knowledge sharing and networking on mangroves amongst NGOs in Asia. In 2010 the network expanded to include persons in Africa. The group now has almost 100 members.

In 2010, MAP-Asia successfully completed two EMR project sites. The first is located at Ban Talae Nok, Ranong. This was supported by the Federal Ministry for Economic Cooperation and Development (BMZ) through the IUCN Asia Pacific Regional Office.

The second completed demonstration project is located at Ban Lang Da, Krabi. This was a joint project in conjunction with Wetlands International-Thailand. Funding support for this project was received under the Asia-Pacific Forum for Environment and Development (APFED) Showcase Programme. A final field review visit from the Thai Environment Institute (TEI) and members of APFED occurred in December. This project was awarded a National ENERGY GLOBE Award for Thailand in 2010.

Monitoring of both EMR demonstration projects continued throughout 2010 and will be on-going. It is envisioned that both demonstration sites will be utilized as examples of EMR methodology during EMR study tours and training sessions.

Additionally, MAP-Asia examined a series of abandoned shrimp ponds south of Trang in the Takham District of Thailand. These are seen as possibilities to further the EMR program in Asia. Progress here was slowed by the reluctance of legal land deed owners to give up their titles. We can foresee an extensive EMR project emerge here utilizing livelihood incentives to convince the owners to undertake mangrove restoration. MAP-Asia is actively seeking funding to implement this initiative.
**Thailand: Community-based Tourism Project - Ban Lion Homestay**

*Homestay up and running...*

MAP working in conjunction with Andaman Discoveries and Naucrates, has established a Community-based Tourism (CBT) homestay program in Ban Lion. Located on Phra Thong Island in the Phang Nga Province of south-west Thailand. This small fishing community was devastated by the 2004 tsunami. The program has been running for 2 years, in 2010 the homestay project became operational.

MAP developed a bilingual (Thai and English) brochure and a visitor’s information booklet to assist with Ban Lion CBT marketing. Homestay community members attended the Tourism Authority of Thailand national tourism promotion fair to publicize “Koh Phra Lions Homestay”. Over the three day event they shared a stand with a Andaman Discoveries.

The growing requirement to offer activities to homestay visitors, coupled with the islands rich biological diversity has created an opportunity for supplementary livelihood. Training of the local population as nature guides began in 2010. MAP facilitated a kayak tour operator-training program in September with staff from John Grey Sea Canoe.

Further work was undertaken with Claudio Coti (Naucrates’ Mangrove Expert), to initiate a plan to establish a local community participation mangrove monitoring program.
Coastal Community Resource Center (CCRC), Phra Thong Island, Thailand

Funding commitment assured...

The development of a Coastal Community Resource Center (CCRC) in Ban Lion is a crucial element in the homestay program. It is intended that the center will become the heart of the village. The CCRC consists of two donated houses converted into a simple community nature and education center which is the focal point for conservation and homestay activities.

A new funder, the Student Travel Association (STA) through the Planterra Foundation to Andaman Discoveries was secured in 2010. It is anticipated that this will help towards some of the renovations required at the CCRC. This will depend on the success of STA's fund raising from clients.
CCRC, Phra Thong Island, Thailand

Environmental Education

Curriculum completed...

An Environmental Education Curriculum for primary education students was completed by Ms. Piyapat Nakornchai (MAP & Naucrates CCRC staff member). This curriculum contains many hands-on learning activities with a focus on Koh Phra Thong ecosystems. It is planned that this curriculum will be utilized both informally with children visiting the island and in the local schools.

Seagrass Monitoring

Monitoring continuing...

Dr. Barry Bendell, (MAP’s seagrass expert) continued to lead the community-based seagrass monitoring project located at two seagrass meadows at Ban Lion. The data collected is included on an international data base maintained by Seagrass Watch in Australia. This survey work has also been assisted regularly by Ms. Piyapat Nakornchai, international volunteers and anyone interested in learning about seagrass.
MAP secured funding support from New Zealand Aid (NZAID) to provide supplementary income opportunities for the women of Ban Lion. The tie-dye project was run by MAP from February to mid November 2010. During this time, the Ban Lion Tie Dye group generated approximately 65,000 Baht gross profit from selling products and conducting training sessions for visitors. A total of 26 guests from the homestay, paid 130-200 Baht per person for 1 and 2 hours respectively, to participate in this activity.

Through this project environmental awareness and sustainability concepts are also promoted. The group uses all natural and local products in the dying process, derived from the mangrove.

This has enabled the group to market their products with an all-natural slogan. To assist with marketing, a descriptive Tie-dye product catalogue was produced as a PDF by Ms. Piyapat Nakornchai (MAP & Naucrates CCRC staff member). This resource is used on the internet and in e-mail correspondence. The product information is also displayed on the Andaman Discovery website (www.andamandiscoveries.com/andaman-handicrafts-tie-dye.php).
Thailand: North Andaman Environmental Youth Network

Successful 2nd Annual Seminar...

Youth groups from the Upper Andaman Coast have been operating sustainable development projects for several years. The groups take an active part in decision making on important issues, which have an impact on their life and resources.

Ms. Jaruwan Enright, (MAP Thailand Field Project Coordinator), was involved in organizing the 2nd Annual Seminar on “Networking for the Future: Building Capacity Amongst Andaman Coast Youth”. This was held over the 10th -11th of October 2010, at the Coastal Resource Research Centre, Kasetsart University, Had Prapat Campus, Ranong. Sixty-six youth members from fifteen groups attended. They represented the Upper Andaman provinces of Phuket, Phang Nga, Ranong, Surat Thani and Prachuap Kirikhan. A further twenty-four staff from nine partner NGOs working region-wide were also in attendance.

The aim of the seminar was to encourage young people to become aware of their role and impact on sustainable resource management. This was achieved by building on the capacity of the young adults by educating them on how to enhance natural resource and environmental management in their communities.

The seminar was scheduled in order to enable participation in the global climate change initiative 10:10:10; participants engaged in a tree planting activity as part of this worldwide conservation event.
Cambodia: Conservation of Coastal and Tonle Sap Resources

Project successfully completed...

MAP-Asia in partnership with Participatory Management of Coastal Resources of Cambodia (PMCR), under the Nature Conservation & Protection Department of the Ministry of the Environment and the NGO Development and Appropriate Technology (DATe) completed a three year (2007-2010) McKnight Foundation funded project entitled “Conservation of Coastal and Tonle Sap Resources”.

The main project objective sought to improve the livelihoods of the villagers through the promotion of innovation and conservation alternatives at Chhnang province Tonlesap and at Peam Krasop Wildlife Sanctuary (PKWS), Koh Kong. The project was supported by Ms. Vathana Tithuot (MAP Cambodian Representative), who worked with both partners on the ground and provided regular updates to MAP-Asia.

DATe introduced fish smoke house technology to reduce fuel wood extraction from the flooded forest and a system to collect used motor boat engine oil to prevent water pollution at Tonle Sap the Great Lake. Training on composting water hyacinth and making charcoal from Mimosa pigra, an invasive bush taking over wetlands, was also provided by DATe to community members from floating villages, but these two new concepts to deal with local problems proved to be unpopular.

PMCR’s project work at Koh Kong focused on, capacity building of local communities; co-management of coastal resources; network building for resource used conflict; sustainable management of coastal environment and livelihood improvement; advocate to policy makers for support of community rights.
India: Save the Sundarbans Campaign

Early Positive Result...

In late 2010, MAP initiated the “Save the Sundarbans” Campaign. Joining other organizations from the USA, EU and Bangladesh, this campaign aims to try to halt a massive open pit coal mine at Phulbari in Bangladesh.

If developed, the open pit mine would be one of the world’s largest. It would affect the mangrove habitats of the Sundarbans to the south, by adversely affecting the hydrology of the region. The planned transportation of massive amounts of mined coal through the Sundarbans by barges will also cause environmental degradation.

According to local campaign organizers in Europe and Bangladesh, the early days of the campaign provided a positive result:

MAP’s “Save the Sundarbans & Stop the Phulbari Mine” alert has come to the attention of GCM investors from the UK who are considering backing the coal mine project. It’s clear that investors are becoming concerned about the wisdom of investing in GCM and it’s Phulbari project. We received calls from a New York finance company that MANAGES FINANCIAL RISK for investors, they wanted to know if Phulbari looks like a high-risk investment...

It is MAP’s intention to continue with this campaign, until a positive result for Phulbari and the Sundarbans mangroves is reached.
**Summary of Financial Activities for Mangrove Action Project**  
*from Jan 1\(^{st}\) 2010 to 31\(^{st}\) Dec 2010*

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Diagrammatic Summary of Financial Activities for Mangrove Action Project from Jan 1\textsuperscript{st} 2010 to 31\textsuperscript{st} Dec 2010

Operating Revenue 2010
- Grants / Foundations
- Individuals
- Major Donor
- Membership
- Web Donations

Operating Expense 2010
- Projects / Programs & Grants
- Operations
- Independent Contractors
- Payroll