

# **United Nations Environment Programme**

Terminal Evaluation of project GF/1030-03-01 (4650) Integrated Management of Peatlands for Biodiversity and Climate Change -The Potential of Managing Peatlands for Carbon Accumulation while Protecting Biodiversity GEF ID No. 1769



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## I. Executive Summary

1. This terminal evaluation was conducted as required by, and in coherence with, Global Environment Facility (GEF) and United Nations Environment Programme (UNEP) monitoring and evaluation policies and procedures, applying a mixed-methods participatory approach. The evaluation assesses the actual performance and results of the Integrated Peatlands Management project against the planned project activities, outputs, outcomes and objectives based on the evaluation criteria of relevance, efficiency, effectiveness, results and sustainability. United Nations Evaluation Group norms and standards were followed throughout the evaluation.

2. The "Integrated Management of Peatlands for Biodiversity and Climate Change" project was implemented by UNEP, with Wetlands International (WI) and the Global Environment Centre (GEC) as executing agencies (EAs). The project received GEF approval November 20, 2002 and began implementation in January 2003, although disbursement did not begin until June 2003, after agency approval. The project was originally planned for a 36-month implementation period, but was twice extended a total of an additional 18 months to allow completion of all activities and publication of the Global Peatlands Assessment (GPA). The project was a GEF targeted research Medium-sized Project (MSP) with \$0.973 in GEF financing and \$1.375 in expected co-financing, for a total cost of \$2.372 (not including PDF-A financing).

3. According to the project document, the project's overall objective was *"to assess the capacity of peatlands, to act as significant carbon stores and provide recommendations on how these areas could be managed to ensure this attribute is maintained. It will also help determine what management measures can help reduce the net emissions of GHGs from peatlands."* The project document identified "longer term outcomes", but these were not explicitly linked to the planned project components/outputs. Two short-term outcomes were later extracted from the project document and included in a retrofitted logframe table in the later project Project Implementation Reviews (PIRs). These were, "Improved understanding of management options or interventions to maintain peatlands' role in carbon storage." The project objective and outcomes were to be achieved through seven planned components:

**Component 1:** Global Technical Component

Component 2: Country Study in Russia

**Component 3:** Country Study in Indonesia

Component 4: Country Study in China

**<u>Component 5:</u>** Regional Component for Southeast Asia

**<u>Component</u>** 6: Global Outreach/Capacity Building and Linkage to Environmental Convention Deliberations and Actions

**<u>Component 7</u>**: Project Coordination and Development of a Synthesis Report

4. The Integrated Peatlands Management project was developed in response to a number of issues related to peatlands and climate change arising in the late 1990s, and a lack of information, data, and analysis on these issues. Also, as noted in the project document, "within the framework of the [United Nations Framework Convention on Climate Change] (UNFCCC)

the focus is on man-induced changes rather than natural changes" in environmental conditions and associated greenhouse gas implications (release or sequestration). It is also noted that "data shows a significant potential of peatlands to contribute significantly to worldwide atmospheric carbon dioxide levels", implying that conservation of peatlands is of critical importance for the objectives of the UNFCCC, as well as the Convention on Biological Diversity, and other conventions such as the Ramsar convention.

5. Project **relevance** is rated <u>highly satisfactory</u>. The project was relevant to local, national and regional priorities, as well as international priorities related to the Convention on Biological Diversity (CBD) and UNFCCC. The project was also relevant to GEF priorities in the biodiversity and climate change focal areas.

6. The project design had multiple shortcomings in terms of the management arrangements, financial planning, and monitoring and evaluation. Management arrangements were not restructured at project start-up, and the poor design ultimately led to problematic project management throughout the project's life, characterized by delayed reporting and poor communication between the implementing agency (IA) and EAs.

7. Project **efficiency** is rated <u>moderately satisfactory</u>. The majority of project resources were budgeted for the project's technical components, which were successfully implemented and produced results commensurate with or exceeding what would be expected for the relatively small investment. For the technical components (each implemented by individual partner organizations), financial management and expenditure was in-line with norms and standards for international development projects, as far as the data available for this evaluation indicates. At the central level, project management was not efficiently carried out due to the problematic institutional arrangements, inadequate oversight by the IA, and poor financial planning. All evidence indicates that project financial management was carried out appropriately.

8. The project lacked adequate indicators, baselines and targets to objectively assess achievement of outcomes and objectives, but based on the evaluative evidence available, **effectiveness** is considered <u>satisfactory</u>. A "Review of Outcomes to Impacts" (ROtI) analysis was also conducted as part of this evaluation (according to guidelines from the GEF Evaluation Office), and a ROtI rating of "AC" was assessed. The project contributed to the development of the conditions necessary to achieve Global Environmental Benefits, but these conditions have not yet been fulfilled and many barriers to effective peatland management remain.

9. It is highly likely that the project made a significant and valuable contribution to improving the understanding of the role of peatlands as carbon deposits in developing countries among key target audiences. At the global level, the recommendation by the CBD Subsidiary Body on Scientific, Technical and Technological Advice (SBSTTA) highlighting the GPA is one indication of increased understanding and awareness of the role of peatlands. While both of the EAs continue to highlight peatland issues in their advocacy efforts, it is highly likely that without this project far less would have been accomplished in terms of raising the profile of the importance of peatlands with respect to climate change. At the regional and national levels, the project's "Peat-Portal" network, support for the ASEAN Peatland Management Strategy, and capacity development activities contributed to improved understanding and awareness. The scientific review and synthesis in the participating countries has also produced

important outputs highlighting the role of peatlands. Within each of the demonstration countries there have been actions taken by government actors at local, sub-national and national levels that demonstrate an enhanced appreciation for the role of peatlands.

10. Overall **sustainability** of project results is considered <u>likely</u>. There are limited risks under each of the four components of sustainability. The assessment of short-term sustainability has benefited from the fact that this was an ex-post evaluation, which took place more than three years after the completion of the majority of project activities.

11. **Lessons and Recommendations:** The key project lessons and recommendations are presented below in summarized form. These lessons and recommendations are outlined in greater detail in the final section of the evaluation report. Considering that this is a terminal evaluation and an ex-post evaluation, there is little scope for extensive recommendations.

12. <u>Lesson</u>: A positive lesson is that a project of modest size and scope, with a broad focus, can achieve meaningful results in raising global awareness of a key issue. Similar projects in the future could learn from the project's example of engaging and focusing the efforts of a large number of technical experts on a single critical issue.

13. <u>Lesson</u>: There are multiple potential lessons related to the project management and implementation arrangements, but these can be distilled into one key lesson: when it becomes clear that there are problems related to project management, these must be adequately addressed as early as possible in a comprehensive manner and through collaboration between implementing and executing agencies.

14. <u>Lesson:</u> The project's institutional arrangements, with one administrative head and one technical lead, proved problematic, as there was insufficient information flow from the ground level of the technical components to the central level for reporting and other purposes. In this sense it would have been helpful if project management functions had been consolidated in one organization, with hierarchical responsibility to a single individual.

15. <u>Lesson:</u> Steering committees can be useful in providing oversight and technical guidance for project implementation, but the utility of such structures must be balanced against the cost of operationalizing them. The constitution of a steering committee can also be structured to involve key stakeholders and constituencies, which can increase cost-effectiveness.

16. <u>Lesson</u>: On the technical side, one of the lessons of the project was that achieving local, ground-level results could only be accomplished by cooperating with local communities. Conflict and adversaries will be created by not effectively working with local stakeholders.

17. <u>Lesson:</u> Demonstration efforts are valuable for identifying and developing environmental management techniques, but to achieve results of any significant scale requires a sustained source of funding to support ongoing management. Ultimately, large-scale restoration efforts will need a sustained source of financing, either from the government or new innovative mechanisms such as carbon financing.

18. <u>**Recommendation:**</u> The GPA is an important and comprehensive resource that is likely to remain relevant for years to come. WI and GEC should continue to actively disseminate this document through all available channels, and should ensure that it remains easily accessible in electronic form, available for download, for at least five more years, or until experience

indicates it is no longer in demand. Download activity of the report from GEC's website should be monitored to assess reach and demand over time. *[For WI and GEC]* 

19. <u>**Recommendation:**</u> The executing organizations of this project and UNEP should within the next two years examine the potential to develop a community-support program to increase understanding and awareness in Sumatra and Kalimantan about the role peatlands play in climate change, and the potential carbon market that is developing. [For WI, GEC and UNEP]

20. **<u>Recommendation</u>**: Based on the lessons from this project, UNEP should avoid in all circumstances designing projects with institutional arrangements involving dual executing institutions. [For UNEP]

21. <u>**Recommendation:**</u> For a project of this size, redundant and excessive management and implementation arrangements should be avoided in future project designs. For scientific or highly technical projects there is a tendency to have an external technical advisory body, but when the project implementation team includes individuals who are themselves international experts, such structures are redundant and unnecessary. *[For UNEP]* 

22. <u>**Recommendation:**</u> All projects, even targeted research projects, should have adequate logframes with SMART indicators at the outcome and impact level. [For UNEP and GEF Secretariat]

23. The below ratings table summarizes the assessed required ratings, while the same ratings table is included at the end of the evaluation report with Evaluator Summary Comments for each rating.

Criterion	Rating
A. Attainment of Project Objectives and Results (overall rating) (Sub criteria below)	S
A. 1. Effectiveness: overall likelihood of impact achievement / ROtI rating	S / AC
A. 2. Relevance	HS
A. 3. Efficiency	MS
B. Sustainability of Project Outcomes (overall rating) (Sub criteria below)	L
B. 1. Financial	L
B. 2. Socio-political	L
B. 3. Institutional Framework and Governance	L
B. 4. Environmental	N/A / L
C. Catalytic Role	HS
D. Stakeholders Involvement	S
E. Country Ownership / Drivenness	MS
F. Achievement of Outputs and Activities	MS
G. Preparation and Readiness	U
H. Implementation Approach	MU
I. Financial Planning (and Management)	MU
J. Monitoring and Evaluation (overall rating) (Sub criteria below)	U
E. 1. M&E Design	U
E. 2. M&E Plan Implementation (Use for Adaptive Management)	MU
E. 3. Budgeting and Funding for M&E Activities	U
K. UNEP Supervision and Backstopping	MU

## **Integrated Peatlands Management Project Ratings**

## **II. Introduction**

## A. Evaluation Scope and Methodology

24. According to GEF evaluation policies, all GEF funded projects must undergo a terminal evaluation. This terminal evaluation was initiated by UNEP following the close of the Integrated Peatlands Management project. This terminal evaluation seeks to assess the actual performance and results of the Integrated Peatlands Management project against the planned project activities, outputs, outcomes and objectives based on the relevant evaluation criteria, as well as any unanticipated results. The evaluation will identify lessons relevant for other peatlands focused projects in the future, and will provide recommendations as necessary and appropriate. As the primary external resource documenting the project activities and results, this evaluation report takes a comprehensive approach, on the assumption that this report will be the primary, and potentially only, resource available to later external reviewers.

25. The evaluation focuses on the four-year project implementation period, but includes an assessment of project design, and provides recommendations related to the project's post-implementation period. The evaluation Terms of Reference (TORs) propose the following key questions based on the project objectives and outcomes, to guide the overall scope and framework of the evaluation:

- Key Question 1: Did the project 'improve understanding of the role of peatlands as carbon deposits in developing countries" among key target audiences (international conventions and initiatives, national level policy-makers, regional and local policy-makers, resource managers and practitioners)?
- Key Question 2: Did the outputs of the project articulate options and recommendations for managing peatlands as carbon deposits while protecting biodiversity? Were these options and recommendations used? If so by whom?
- Key Question 3: To what extent did the project outputs produced have the weight of scientific authority and credibility necessary to influence policy makers and other key audiences?

26. In addition to these key questions, the evaluation provides the required ratings on the relevant elements of project design and implementation. Further, the evaluation will, when possible and relevant, assess the project in the context of the key GEF operational principles, as summarized in Annex 3.

27. The evaluation methodology was based on a participatory mixed-methods approach, which included three primary elements: a) a desk review of relevant project documentation and other documents; b) interviews with key project participants and stakeholders; and c) a field visit to the Indonesia Country Study Central Kalimantan demonstration project site.

28. As with any GEF project terminal evaluation, the main limitations are time and resources available to conduct the evaluation. In the case of this evaluation, the field visit was limited to one of the Indonesia demonstration sites; it was not possible to also visit the China and Russia demonstration sites. Therefore, the data and information available from these components of the project are less in-depth than for the Indonesia component. Another limitation was that the terminal evaluation was initiated more than 12 months after the closure of the project, and

24 – 36 months after the completion of the majority of project activities, limiting the availability of data, and rendering the evaluation an ex-post exercise, although this also had some benefits.

29. The evaluation was conducted in accordance with UNEP and GEF monitoring and evaluation policies and procedures, and in-line with United Nations Evaluation Group norms and standards. The intended users of this terminal evaluation are the GEF Evaluation Office, UNEP, project participants, and others who may find the lessons and experienced documented herein useful in the context of other projects.

## **III.** Description of the Integrated Peatlands Management Project

## A. Environmental Context and Background

30. The Integrated Peatlands Management project was developed in response to a number of issues related to peatlands and climate change arising in the late 1990s, and a lack of information, data, and analysis on these issues. Also, as noted in the project document, "within the framework of the UNFCCC the focus is on man-induced changes rather than natural changes" in environmental conditions and associated greenhouse gas implications (release or sequestration). It is also noted that "data shows a significant potential of peatlands to contribute significantly to worldwide atmospheric carbon dioxide levels", implying that conservation of peatlands is of critical importance for the objectives of the UNFCCC, as well as the CBD, and other conventions such as the Ramsar convention.

31. The project was also built on growing global awareness of peatland conservation issues in relation to examples such as the mega-rice project catastrophe in the mid-1990s in Indonesian peatlands, and the subsequent massive fires that resulted in dense haze across Southeast Asia. The project document states that fires in 1997-98 burnt or partially degraded more than 1.45 million hectares of peatlands, and cites a study estimating that as a result of fires in one national park in Indonesia, 29 million tons of carbon were released. Although numerous individual studies had been conducted, the overall state of knowledge on global peatlands was not well consolidated, an issue the project sought to address.

32. Individuals involved with the project's development indicated that initial work leading to the PDF-A was done in the 1998-1999 timeframe, which could therefore be considered the origination of the project concept. Due to the age of the project (having been designed more than eight years ago), the exact circumstances of the project background were not available for this evaluation.

## B. Project Development and Overview

## i. Development and Implementation Timeframe

33. The "Integrated Management of Peatlands for Biodiversity and Climate Change" project was implemented by UNEP, with WI and the GEC as executing agencies. According to the GEF project database, the PDF-A was approved January 1, 2000. The project received GEF approval November 20, 2002 and began implementation in January 2003, although disbursement did not begin until June 2003, after IA internal approval. The project was originally planned for a 36-month implementation period, but was twice extended a total of an additional 18 months to allow completion of all activities and publication of the GPA. Key project dates are outlined in

Table 1, below. The project was a GEF targeted research MSP with \$0.973 in GEF financing and \$1.375 in expected co-financing, for a total cost of \$2.372 (not including PDF-A financing). A complete breakdown of expected and actual project financing is included in Table 4, and project planned and actual co-financing is shown in Table 5 Section IV.B.

Milestone	a. Expected date	b. Actual date
i. PDF-A Approval	N/A	January 1, 2000
ii. CEO endorsement/approval		November 20, 2002
iii. Agency approval date	January 2003	June 3, 2003
iv. Actual start date	January 2003	January 2003
v. Implementation start (first disbursement)	January 2003	June 10, 2003
vi. Mid-term evaluation	N/A	N/A
vii. Project completion	April 2006	December 2007 <sup>1</sup>
viii. Terminal evaluation conducted	December 2006	February 2010

**Table 1 Integrated Peatlands Management Project Key Dates** 

ix. Project closing

Sources: i.a. N/A; i.b. GEF online project database; ii.a. N/A; ii.b. 2007 PIR; iii.a. Assumed; iii.b. 2007 PIR; iv.a. Assumed; iv.b. 2007 PIR; v.a. Assumed; v.b. 2007 PIR; vi.a. N/A; vi.b. N/A; vii.a. 2007 PIR; vii.b. Project internal communication documentation; viii.a. Assumed; viii.b. Evaluation; ix.a. Assumed based on expected project completion date; ix.b. Assumed based on project terminal report date of September 2008.

December 31, 2006

34. From PDF-A approval to implementation took 42 months, one year longer than the average for GEF MSPs around that time. The 2006 GEF Evaluation Joint Evaluation identified the average for the MSP development and approval process as 30 months. Partly because of the long development and approval time, activities for which co-financing had been secured were ongoing during project development, so that some activities originally planned in the project document were well underway or completed by the time of "official" project start-up. For example, agreement was reached on the ASEAN Peatland Management Initiative (APMI) during the project development period, so component 5 of the project was re-structured to take the next step of supporting the development of the ASEAN Peatland Management Strategy (APMS). Another example was the Indonesia country study component, which had received significant co-financing from the Canadian International Development Agency (CIDA) and begun work before project implementation with GEF-funding began. Under the global outreach component there was an activity planned with Dutch co-financing that was later dropped from the official GEF project because it had been completed before the project began.

2002

December 31, 2008

<sup>&</sup>lt;sup>1</sup> The majority of the project technical work was completed by June 2006, including the country components. An initial project no-cost extension to October 2006 was granted, followed by "informal" agreement between the IA and EA to extend through June 2007 but this was never formalized; official paperwork for a second no-cost extension to December 31, 2007 was agreed and completed in November 2007. Over the final year of project operation there was ongoing only the completion and publication of the Global Peatlands Assessment report, and project financial and administrative matters.

#### ii. Project Objective, Overall Structure, and Stakeholders

35. According to the project document, the project's overall objective was "to assess the capacity of peatlands, to act as significant carbon stores and provide recommendations on how these areas could be managed to ensure this attribute is maintained. It will also help determine what management measures can help reduce the net emissions of GHGs from peatlands." As a targeted research proposal developed in the second operational phase of the GEF, the project was not well-structured in terms of current practice with an alignment of well-defined inputs, activities, outputs, outcomes and impacts. The project proposal lacks a well-defined logframe with identified indicators and targets (e.g. anticipated results), as further discussed in Section VI.C on monitoring and evaluation. As a targeted research proposal the project document identifies the questions to be answered:

- Do peatlands play a significant role in accumulating carbon, in both the short and long-term? If so, why and how? What variables influence this role?
- How do practices such as drainage, conversion and water level manipulation affect carbon flux and how can this information be used in the management of a peatland for the benefit of maintaining its carbon storage and its biodiversity related functions?
- What successful management methods or tools are being used to maintain the potential of peatlands to act as carbon stores while concurrently ensuring the conservation of biological diversity?
- What type of sites can be managed to bring about multiple environmental benefits in terms of carbon storage and biodiversity conservation?
- What are the current socio-economic activities in the selected peatland areas and how can these be improved / modified to make them more sustainable with reduced impact on climate change and biodiversity?

36. Outcomes were also identified, but not explicitly linked to the planned project components/outputs. Identified "longer term outcomes" (as per the project document) were:

- Information on the carbon storage estimates in selected sites of peatlands
- Adoption of better models for sustainable development and management of peatlands
- Continued maintenance and improved protection of peatlands
- Significant reduction in emissions through prevention of burning of peatlands
- Increased recognition of the importance of the sustainable management of peatlands and the relationship with climate change
- Increased number of projects in the GEF portfolio related to management of peatlands to buffer climate change and enhanced biodiversity benefits
- Sustainable livelihoods based on peatland management

37. Two further outcomes, extracted from the project document, were included in a retrofitted logframe table in the later project PIRs. These were, "Improved understanding of management issues affecting peatlands in selected case study countries" and "Guidelines on management options or interventions to maintain peatlands' role in carbon storage." The project objective and outcomes were to be achieved through seven planned components:

<u>Component 1:</u> Global Technical Component
 <u>Component 2:</u> Country Study in Russia
 <u>Component 3:</u> Country Study in Indonesia
 <u>Component 4:</u> Country Study in China
 <u>Component 5:</u> Regional Component for Southeast Asia
 <u>Component 6:</u> Global Outreach/Capacity Building and Linkage to Environmental Convention Deliberations and Actions

**<u>Component 7</u>**: Project Coordination and Development of a Synthesis Report

38. Each of these components is described in greater detail in Section V.B on results, which highlights the results of the project under each component.

39. Because the project was a "global" project and included global, regional, national activities and local site-level demonstrations, there are relevant stakeholders at the international, national and local levels. Identified international stakeholders include parties to international conventions (such as the CBD and UNFCCC), and international non-governmental organizations (e.g. International Mire Conservation Group (IMCG)) and research institutions (e.g. Center for International Forestry Research (CIFOR)). There are a wide variety of relevant stakeholders at the national level, including government agencies and national non-governmental organizations (NGOs) and research institutes. Site level stakeholders include local resource users and local governments. According to the project document, "stakeholders will be engaged through direct involvement in project activities, participation in workshops and consultations, provision of information and awareness materials, etc."

## **IV. Assessment of Project Design and Implementation**

## A. Project Design and Relevance

## i. Implementation and Execution Arrangements

40. There were two executing partners for the project, WI and GEC. The organizations were expected to play complementary roles in execution, with GEC overseeing technical coordination and synthesis, and WI handling project management and financial management. According to one source, the dual-executing agency implementation structure was a result of the GEF's or UNEP's reluctance to have GEC as the only executing agency, because at the time GEC was a relatively new organization without an established track record. An execution-level partnership with WI headquarters was then a logical approach given the involvement of the WI country offices in Russia, China and Indonesia.

41. Figure 1 gives a visual representation of the institutional arrangements. As shown, there was a designated institution responsible for each of the project components. The project was a "global" project, but with a decentralized approach of six separate technical components (plus a management component) that were implemented virtually independently at the national, regional and global levels.





42. Along with the fact that all components were in some way overseen by WI and GEC, a project steering committee provided a centralized mechanism to bring together the various components of the project, with responsibility, according to the body's terms of reference, "for providing guidance and advice to the management team regarding the progress and direction of the project and exerting proactive influence on policy processes." Box 1 highlights the institutional representation on the steering committee. Four steering committee meetings were held: November 4, 2003 in Wageningen, Netherlands; February 8, 2004 in Kuala Lumpur, Malaysia; May 27, 2005 in Kuala Lumpur, Malaysia; May 18-19, 2006 in Chengdu, China. Because of limited attendance at the 2003 meeting, the 2004 meeting was the first full meeting.

of the steering committee, approximately seven months after project start-up. Steering Box 1 Steering Committee Representation committee members also provided ad-hoc input, particularly on the global assessment report. The steering committee also served as an effective mechanism for engaging constituencies and stakeholder groups. For example, through the presence on the steering committee of a member of the CBD Secretariat the project was able to provide inputs directly to CBD processes. According to the project's terminal report, "Involvement

- Convention on Biological Diversity Secretariat
- Wetlands International (President)
- Sichuan Forest Department
- International Mire Conservation Group
- United Nations Environment Programme
- Ministry of Forestry, Indonesia
- Ministry of Natural Resources, Russia •
- ASEAN / Ministry of Environment, Indonesia
- GEF Scientific and Technical Panel
- Malaysian Meteorological Services Department •
- Ramsar Convention Secretariat

of representatives from the project target countries and regions were also important in supporting the development and implementation of project components."

43. The institutional arrangement design also included a "Technical Advisory Group" of international peatland and climate change experts, and an "Outreach Group." The latter was to be made up of representatives from a variety of international organizations, including, for example, the International Institute for Environment and Development, the implementing agencies of the GEF, and the technical bodies of the CBD and UNFCCC. The 2004 steering committee minutes include TORs for both of these groups, but in the 2005 steering committee meeting a decision was made to abandon establishment of the Technical Advisory Group "given the strengthened technical membership of the [steering committee]<sup>2</sup> as well as the set up of a separate technical team to guide the process of the Assessment." The project did however develop an extended network of technical and outreach professionals from a broad range of organizations at both the global level and within the three demonstration countries.

44. In project design GEF MSPs, and even full-sized projects (FSPs), often face cost-efficiency trade-offs in identifying an adequate project oversight structure. A project steering committee is a common way to proceed, but the effectiveness of a steering committee is dependent on its members meeting at least once if not twice a year to be updated on project progress, make strategic adaptive management decisions, and provide technical input. For a global project such as this one, a steering committee is usually made up of a mix of individuals from around the world in order to sure broad and diverse inputs. Convening steering committee meetings is often therefore costly, and not cost-effective for a project with a budget of approximately \$1 million, unless other external processes are leveraged such as holding steering committee meetings during other international environmental gatherings such as COPs. In the Integrated Peatlands Management project external meetings were partially leveraged for project steering committee meetings - for example, the first full steering committee meeting was held immediately prior to the CBD Conference of Parties (COP) in Kuala Lumpur in February 2004. Only around \$14,000 was budgeted for the project steering committee, which clearly would not have been enough to hold three or four international gatherings of ten or more people.

45. For the Integrated Peatlands Management project the steering committee played an important role in keeping the project on track from a management perspective, but some participants felt that such a structure was too "heavy" for a project of this size. For international environmental projects, management cost norms are around 10% of the project budget, and this is the standard used to by the GEF to limit management costs. The reality may be that "global" projects with complex partnership and institutional arrangements, involving multiple countries (and multiple languages) may as a necessity have higher transaction costs than other types of GEF projects implemented at the national level. Such complex projects often require more intensive coordination to avoid internal communication and management challenges.

<sup>&</sup>lt;sup>2</sup> It was decided in the 2004 project kick-off steering committee meeting to include the International Mire Conservation Group and GEF Scientific and Technical Panel in the steering committee.

#### ii. Strategy: Technical Approach, Structure and Design

46. This evaluation, through the ROtI methodology, proposes a retrospective logic chain in the draft ROtI analysis included as Annex 4, and the overall effectiveness rating is drawn from the ROtI analysis. It may be noted however, that targeted research projects typically do not score well under the ROtI methodology because they are focused on addressing enabling conditions, and are far removed from impact level results in the intervention strategy.

47. A common problem among GEF projects is over-ambitiousness, and the Integrated Peatlands Management project was no exception. Multiple individuals involved remarked on the planned scope of the project relative to its overall size. As discussed below and as can be seen in Table 4, the actual resources available for each component to be spent over three years were relatively small – around \$40,000/year per technical component. As noted in the project terminal report, the project was "extremely ambitious in scope with seven separate components, 16 objectives, 52 specific outputs, 75 planned activities to be implemented at site, provincial, country, regional and global scales – but with an allocation of GEF funds of only US\$975,000 and co-funding of \$1.3 million. The project was planned for implementation over three years by five different lead partners and many other partners at regional, national and local levels." The fact that the project was successful in producing the expected outputs (albeit with some delay) is a testament to the importance and overall relevance of peatlands in the climate change realm, and the technical quality of the project implementers.

48. In GEF project conceptualization and design there is often a tension between strategic approaches to generating global environmental benefits, and the GEF's key operational principle of country drivenness; countries naturally prioritize domestic needs over benefits for the rest of the world. This tension is apparent in the Integrated Peatlands Management project design. The project document extensively discusses the global environmental rationale for the project (the dearth of research and data on an important ecosystem type), but does not discuss the strategic rationale of the design, including the structure of the seven project components. How and why was it determined that these seven components represent a strategically advantageous and appropriate approach to resolving the underlying research questions? There are often good reasons why things are done (or designed) a certain way, but these reasons should be documented and communicated to facilitate later understanding.

49. Regarding components 2, 3 and 4, the three countries involved – China, Indonesia and Russia – do contain a large portion of the world's peatlands, but their participation appears to be based on opportunistic partnerships from previous and planned related activities (as described in the project document's incremental cost section). According to individuals involved in the project's development, the China demonstration site was selected based on previous knowledge of the project developers; some scientific research had been conducted in the Central Kalimantan site, and WI-Indonesia was already doing some work in the Sumatra demonstration site. Given the three countries' importance with respect to peatland ecosystems this may have been a strategic as well as opportunistic approach, and clearly demonstrates country-drivenness by involving many key national-level stakeholders. Beyond the country/site selection, within the three country study components the approach of having both scientific reviews and on the ground demonstration activities is not rationalized.

50. The logic of the other three technical components (1, 5 and 6 – representing more than 50% of the planned budget), particularly the Southeast Asia regional component, is also not explained. For example, why the choice to support ASEAN policy processes instead of more extensive technical peatland / fire management capacity development? The project document explains what the project plans to do, but not why the proposed approach was taken to address the overarching problem of inadequate global understanding of the importance of peatlands in relation to climate change and biodiversity conservation. This does not mean that the project strategy was poor, but the rationale for the strategy was not clearly articulated and alternative approaches were not discussed.

## iii. Multi-focal (OP12) Approach in Design

51. The Integrated Peatlands Management project was classified and reviewed as an "Operational Program 12" (OP12) or multi-focal area project, as the project objective presented an opportunity for the generation of global environmental benefits in both the climate change and biodiversity focal areas. According to the GEF Evaluation Office OP12 program study, completed in 2005, "OP12 was initially conceived in 1999 as an operational program on carbon sequestration, but a year later was given its current title to reflect an integrated and multifocal approach to the management of natural systems." The April 20, 2000 GEF document describing OP12 states the program objective "is aimed at catalyzing widespread adoption of comprehensive ecosystem management interventions that integrate ecological, economic, and social goals to achieve multiple and cross-cutting local, national and global benefits."<sup>3</sup>

52. On the whole the project document does a good job of explaining in a straightforward manner the benefits generated in both focal areas, without over-promising. As stated in the OP12 program study, in some cases dual focal area benefits "may be nearly automatic." This appears to be the case in peatland conservation and restoration, where resource use practices that are good for carbon stock maintenance and sequestration are often also good for biodiversity, and vice-versa.

53. The project document uses language referring to the simultaneous rather than "synergistic" benefits generated: "This proposed project will investigate techniques for conserving these areas to facilitate carbon accumulation <u>while at the same time</u> maintaining or enhancing their biodiversity"; "This project would address these issues by providing information on the viability of managing peatlands for reducing net Greenhouse gas emissions and biodiversity conservation <u>concurrently</u>"; "This project would support targeted research to verify operational feasibility and viability for wetland ecosystems to serve as carbon deposits and to be managed in such a way as to improve their carbon accumulation ability while <u>concurrently</u> reducing loss of biodiversity." [Emphases added] The project document does not claim that there will be synergistic focal area benefits, defined in the OP12 program study as not just winwin, but "win by more-win by more."

54. The OP12 program study included the Integrated Peatlands Management project in its individual project reviews, in which each OP12 project document was assessed on a scale of 0

<sup>&</sup>lt;sup>3</sup> In GEF-4, with the implementation of the GEF Resource Allocation Framework, OP12 was eliminated as an operational program with an individual strategic objective, though the GEF continues to fund projects that generate global benefits in multiple focal areas.

(highly unsatisfactory) to 5 (highly satisfactory) on criteria developed around the key questions for the evaluation. Table 2 below summarizes the scores given for each of the criteria assessed in the OP12 program study. The project document scored a "5" on "multi-focal area claims", "global environmental benefit", "partnerships", "country drivenness", and "themes fall within focal areas." Low scores (< 3) were received for "synergies", "stakeholder participation", "lesson learning" and "comparative advantage [of being a multi-focal area project]". The project's overall mean score of 3.2 across all criteria assessed was higher than the overall mean for all OP12 projects of 2.8.

Criteria	Assessed Score
Convincingly Addresses Multi-focal Area Claims	5
Adequately Measures Global Environmental Benefits	5
Establishment of Baselines and Indicators	4
Convincingly Demonstrates and Measures Synergies Among Focal Areas	2
Extent and Appropriateness of Partnerships	5
Demonstration of Country Drivenness	5
Specificity and Definition of Stakeholder Participation Arrangements	2
Extent of Sectoral Integration in Management on Recipient Side	2
Plans for Lesson Learning and Knowledge Management Regarding Integration and Synergies	0
Consistency with GEF Policy for OP12 Selection Criteria	3
Influence on Broadening or Changing Relevant Focal Area Objectives	3
Thematic Fit within Strategic Priorities and Objectives of Respective Focal Areas	5
Adequacy of Data Collection to Demonstrate Multi-focal Comparative Advantage	2
Overall Environmental Benefit	3
Integration Giving Synergy	3
Mean	3.2

Table 2 OP12 Program	n Study Evaluat	tion of Integrated Pea	tlands Management	Project
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#### iv. Relevance to Local, National, International and GEF Priorities

55. Project relevance is rated <u>highly satisfactory</u>. The project was relevant to local, national and regional priorities, as well as international priorities. The project was also relevant to GEF priorities in the biodiversity and climate change focal areas.

56. Although the project was a "global" project, the demonstration sites and country studies necessitates a brief review of the relevance to local and national priorities in China, Indonesia and Russia. In Indonesia, the demonstration site activities were relevant to local priorities through the focus on reducing fire incidence in degraded peatlands, and improved local livelihoods and sustainability of resources use in the drainage basin between the Kapuas and Mantangai rivers, where the demonstration site was located. At the national level in Indonesia, peatlands are an important ecosystem type and the project document states that the country has 60% of the world's tropical peatland resources. Indonesia's National Biodiversity Strategy and Action Plan (NBSAP) highlights the fact that "The opening up of one million hectares [of] peatswamp through the Conversion of Peat Swamp project in Central

Kalimantan causes one of the most serious ecological damages to wetlands. This project was aimed at converting peat swamp forest into wet rice fields, but the project ended in environmental disaster." Also, Indonesia's First National Communication to the UNFCCC indicated that 70% of its GHG emissions related to land use and land use change including peatland degradation.

57. Peatland ecosystems are identified as priority ecosystems in Russia's NBSAP, occupying over 20% of Russian territory. The NBSAP highlights, among the consequences of human impact on peatland ecosystems, "Man's interference with natural carbon and water cycles, turnover of other elements and substances, hydrologic, climatic, and other regulatory functions intrinsic in peatlands." The project document also notes that Russia endorsed the call to elaborate a global action plan for peatlands and endorsed the draft action plan at the 7<sup>th</sup> Conference of Parties of the Ramsar convention. At the site level, the project activities were relevant to Tver and Tomsk oblast environmental priorities, both of which developed peatland conservation plans addressing issues highlighted by the project.

58. In China the project document states that the work to be conducted in China will be within the framework of China's Wetland Action Plan and China's Agenda 21. China has extensive peatland areas, and the demonstration site was located in the Ruoergai peatlands in Sichuan province.

59. The project is assessed as supporting multiple multi-lateral environmental agreements, including the CBD, the UNFCCC, and the Ramsar convention. According to the project document, "In particular it will contribute to the implementation of CBD Decision IV/4 on Inland Water Biodiversity which includes management of peatlands and also Recommendation VII/1 of the Ramsar Convention on Wetlands which calls for urgent action related to the conservation of temperate and tropical peatlands as well as the development of a Guidelines for Global Action on Peatlands which incorporates climate change considerations." The participating countries are parties to the CBD and UNFCCC.

60. The GEF's strategic priorities have evolved through each phase of the GEF. The Integrated Peatlands Management project was approved in 2002, during GEF-2, at which time strategic priorities were not clearly defined beyond the objectives of the relevant conventions (UNFCCC in the climate change focal area and CBD in the biodiversity focal area). The primary guiding strategic document of the GEF at this time was the GEF Operational Strategy (1994), which outlines the focal area specific operational programs, and which stated that "The GEF will fund targeted research, including information collection, analysis, and dissemination, only in the context of the operational programs." For a period during part of GEF-2 and GEF-3 there was a "multi-focal area" operational program, OP12, within which the Integrated Peatlands Management project was well-qualified and designed from a technical perspective (as discussed in the previous section).

61. A May 1997 GEF Council Document further outlined principles for financing targeted research, defining targeted research as "goal oriented research that supports the GEF operational strategy by providing information, knowledge and tools that improve the quality and the effectiveness of the development and implementation of GEF projects and programs" and "systematic investigation of a well defined problem." This council paper set out a set of principles with which targeted research projects are required to conform: Convention guidance;

Consistent with the GEF mandate, objectives and operational strategy; Based on programmatic needs; Economically feasible; Incrementality; Scientific soundness; Consistent with recipient country interests; and, Overall eligibility. The Integrated Peatland Management project is judged to be in-line with and relevant to the GEF's operational strategy for the relevant focal areas, and in-line with the principles for funding targeted research.

## v. Stakeholder Participation and Catalytic Role in Design

62. Stakeholder participation in project design was not one of the strongest aspects of the project, perhaps due to its nature as a targeted research project. The project document does highlight that "At each of the project sites in the three case study countries, preliminary consultations have been undertaken with selected local stakeholders such as local government agencies, peatland managers and users, NGOs and community representatives. These consultations will be expanded at the initial stage of the project." The OP12 program study also noted that while the project was well designed, it omitted or lacked detail related to stakeholder participation. The project document includes a "public involvement plan," but this has few specifics; under "Stakeholder Participation" the project document states only, "Throughout this project's development, participation strategies will include different players from national governments, scientists, local communities, environmental non-government organizations to international agencies and donors."

The "catalytic role" of the GEF is one of the key GEF operational principles, as 63. highlighted in Annex 3. GEF projects are required to take a catalytic approach, which may include mechanisms or linkages for replication or scaling up of efforts in conjunction with or following project implementation. In some sense the "targeted research" nature of the Integrated Peatlands Management project is inherently catalytic, in that the results of the research are intended to catalyze additional efforts drawing on the research findings. Although the project document does not explicitly articulate a "replication approach", the longer term outcomes in the project document are all catalytic outcomes (i.e. beyond what would be achieved by the project alone during the implementation period), in particular, the "increased number of projects in the GEF portfolio related to management of peatlands to buffer climate change and enhance biodiversity benefits." The primary catalytic mechanism employed by the project was increased outreach and awareness of international stakeholders to disseminate the findings of the project. It was further anticipated that the demonstration site techniques and efforts could be scaled-up and replicated more broadly within the respective countries. Results and evaluative evidence of the project's catalytic efforts are discussed in Section VI.B.

## B. Project Implementation and Cost-Effectiveness (Efficiency)

64. Based on the evaluative evidence discussed below, project efficiency is rated *moderately satisfactory*.

## i. Project Management

65. There are multiple lessons to be drawn from the project management process of the Integrated Peatlands Management project. At the level of the individual technical components project management was adequate, if not strong, with the exception of the effort to produce the GPA, which was an excellent output but took much longer than expected. Components 2-5

- the country studies and the regional component - were managed and implemented efficiently within the anticipated timeframe. At the aggregate level, however, the decentralized structure of the project and the split institutional arrangements presented some challenges; it appears that the administrative (WI, located in the Netherlands) and technical (GEC, located in Malaysia) executing organizations did not adequately communicate with or update each other regarding project progress, or take primary responsibility for communicating with and responding to UNEP and the steering committee. WI was the primary contact point for UNEP, but the majority of information required on project progress needed to come from GEC, which was leading the technical implementation of the project. Thus WI was an added communication layer, which proved to be only semi-permeable. The project management issues are well documented throughout the project monitoring reports, and were mentioned by multiple individuals interviewed for this evaluation.

66. The frequent delays and miscommunication on administrative matters, particularly on progress reporting and communication between the EA and IA can also be attributed to an inadequate monitoring and evaluation plan and budget. The EA cited limited resources budgeted for effective project management, and the project did not have a dedicated monitoring and evaluation budget (also see the following Section IV.B.iii on financial management and Section VI.E.i on project monitoring and evaluation). At the project's first full steering committee meeting in 2004 WI already expressed concern that management funds were inadequate to cover the level effort required for progress reporting and administrative management. If there was a shortage of funds budgeted for project managements: in the project document the project coordination and synthesis component (component 7) was budgeted for 16% of GEF resources,<sup>4</sup> well above the current GEF standard of 10%. Under implementation the management budget was broken out in a different form under the UNEP budget format, but totaled approximately the same percentage.

67. Although in the project document component 7 is described as the management component, in practice management costs were broken out separately, and under component 7 GEC provided significant <u>technical</u> support to the country study components. For example, between the 2004 and 2005 steering committee meetings there were four technical support missions to Indonesia, three to China, and four meetings with the Russian team leader to provide input to the local partners. Although the decentralization of the project components helped ensure their technical delivery, synthesis of the progress and achievements of the various components for regular progress reporting was problematic.

68. At the central level, by the 2005 steering committee meeting, UNEP "expressed concern that the management was apparently not allocating enough time to actively manage the project" and requested "more clarity and better coordination between the two project managers" while questioning the wisdom of having two project managers. In the project's final PIR in 2007, it was noted that the "co-managed project structure has apparently lead to various communications flaws, unclear responsibilities and delays in reporting." Ultimately the split

<sup>&</sup>lt;sup>4</sup> The percentage of resources that could or should be considered as part of the "management" budget is further discussed in Section IV.B.iii below on financial planning and management.

project management function proved unworkable in this case, in terms of meeting the administrative and reporting requirements, and communicating effectively with UNEP. Fortunately these institutional arrangements did not have a significant negative effect on the technical delivery of the project components, but as qualified in the 2007 PIR, "this structure has often been rather inefficient."

#### ii. Flexibility and Adaptive Management

69. The project lacked a proper logframe, which limited the project team's ability to use the logframe as a management tool to gauge implementation progress and assess risks. In the early part of the project the project team did try to structure progress reporting more in line with a logframe format, but this did not meet UNEP reporting requirements at the time, and so was abandoned. PIRs were completed for all years, but were not always comprehensive; for example the risk assessment section of the 2006 PIR was mostly incomplete. The steering committee reviewed annual workplans and associated budgets, which were revised as necessary. Significant management-related revisions were the initial extension to October 2006, and the later extension to December 2007.

70. One the side of technical implementation some changes were made to the workplan and related activities at various points. In the 2004 steering committee meeting changes were made to the Southeast Asia regional component based on the advanced status of the APMI compared to what was foreseen in the project document. At the 2005 steering committee meeting the synthesis report originally envisioned under component 7 was switched to component 6, while funding in component 6 originally planned for a micro-grants program (with significant co-financing from the Global Peatlands Initiative that did not materialize as expected) would be used to support production of the synthesis report. The funds originally planned for the synthesis report under component 7 remained under this component for technical support for the other components. Also, in the 2005 steering committee meeting the Russia and China country components were extended until March 31<sup>st</sup> 2006.

71. There was some sentiment among steering committee members prior to the 2005 steering committee meeting that the project was not making sufficient implementation progress and was in some way off track, although this may have been a result of inadequate communication of progress and results by the project team. Multiple decision points and actions were outlined at the 2005 steering committee meeting and followed-up on by the 2006 steering committee meeting, at which point it was agreed that implementation progress was satisfactory.

72. Considering the previously described issues related to project management, institutional arrangements, and monitoring and reporting, there were many additional opportunities for adaptive management related to this aspect of the project. Unfortunately these problems were not adequately addressed in a timely manner. As noted in the project terminal report "On reflection, a more substantive review of the project's administrative processes in association with UNEP staff should have been undertaken early on once these problems became clear." There are a number of options that could have been explored – for example, GEC could have been made the primary contact point for UNEP and been responsible for producing progress reports, while essentially contracting WI for financial management to address the GEF and IA

concerns about GEC's institutional maturity. Fortunately, as previously stated, the administrative and monitoring problems did not derail the technical implementation of the project other than the fact that the GPA was significantly delayed.

#### iii. Financial Planning and Management

73. Table 3 below shows project budgeted and actual expenditure in UNEP budget management format, while Table 4 at the end of this section shows the project budget based on the project document. In the project document the project management budget was not clearly split out from any of the other components, and the description of component 7 in the project document includes project coordination and management. In both sources the IA fee was not clearly split out, and it is assumed that it was prorated across all components, or paid separately by the GEF to UNEP as 10% on top of the project budget.

<b>Table 3 Integrated Peatlands Mana</b>	gement Budget and Actual I	Expenditure (UNEP Format)

Budget Line	Responsible Party	Budgeted GEF Resources	%	Notes	Actual Expenditure	%
Project Personnel	Executing Partner: WI-HQ - includes administrative support, technical support, technical and management travel, and steering committee travel	108,062	11.11%	Of this, 2.71% is classified as technical, and 8.40% classified as management, including steering committee travel (1.48%).	110,379	11.35%
Component 1: Global Technical Component	Executing partner: GEC	122,500	12.59%		122,957	12.64%
Component 2: Russia Country Study	Executing partner: WI–Russia	98,000	10.07%		98,875	10.16%
Component 3: Indonesia Country Study	Executing partner: WI-Indonesia	96,705	9.94%		96,705	9.94%
Component 4: China Country Study	Executing partner: WI-China	99,500	10.23%		99,491	10.23%
Component 5: SE Asia Regional	Executing partner: GEC	143,000	14.70%		143,000	14.70%
Component 6: Global Outreach	Executing partner: GEC	244,000	25.08%	Including travel to and participation in global forums.	241,962	24.88%
Component 7: Technical Coordination and Synthesis	Executing partner: GEC	54,600	5.61%	Including travel to participating countries for technical support.	54,600	5.61%
Miscellaneous	Auditing and communications	6,338	0.65%		4,735	0.49%
Total		972,705			972,705	

Source: Project documentation: "Final Expenditure Report"

74. According to the final project expenditure report, there was little variation between the planned and actual expenditures. Component 6, the global outreach component, was the largest of the project components, with approximately 25% of the project budget. Each of the country components was allocated approximately 10% of the project budget.

The amount of resources that could be considered available for project management 75. (management costs under "Project Personnel" plus "Miscellaneous") amounted to 8.89% of the expenditure of GEF resources, which is below the GEF's stated threshold of 10%. This percentage does not include administrative overhead or travel under each of the technical components, though these costs could be considered inclusive in the technical aspects of the project. Throughout the project documentation there are references to overspending in the Project Personnel budget allocation, but this was ultimately reconciled, as shown in the project final expenditure figures. This did lead at one point in the project (during the first half of 2005) to a problem with cash flow: overspending in project management and delays in progress reporting led UNEP to withhold the cash transfer for the first half of 2005 until WI confirmed in writing that they would cover overspending related to project management. This caused some minor difficulties for the partners implementing the technical components; for example WI-Russia had to borrow funds from its host organization, WWF Russia, until the cash flow problem was resolved.

76. Financial planning for the project clearly could have been improved, and the project would have benefited significantly from a dedicated monitoring and evaluation budget. This is now a requirement for all GEF projects. As stated in the project terminal report, "The budget for project administration and finance management was very tight (about 5% of the project budget)<sup>5</sup> and as a result the EA staff time for overall project management amounted to about one person month per year which in a practical sense had to be combined with many other institutional roles within the organisation." This arrangement contributed to the poor communication within the project team, and the problematic synthesis and delayed delivery of reports highlighted in the previous section.

77. While the use of management resources was not highly efficient, the resources allocated to the technical components (the majority of the project budget, at approximately 88% of resources) were used in a cost-effective manner. As described in Section V.B below, the project results were significant, and were commensurate with international norms and standards. With less than \$100,000 each of the country components conducted technical and scientific syntheses, produced numerous publications and outreach materials, and carried out demonstration site activities over a three-year period. The project's achievements also would not have been possible without important co-financing from a variety of sources. To paraphrase one component leader interviewed, from their point of view the project is the best example of UNEP effectiveness in using \$1 million dollars, and the international recognition and influence of a document such as the GPA is very rare for a GEF MSP.

78. The project's financial management included the production of quarterly budget reports, submitted to UNEP. As with the project progress reports, financial reports and other

<sup>&</sup>lt;sup>5</sup> The "5%" mentioned by the report is presumably referring to the Project Personnel management budget line, which actually amounted to 6.6% of the project budget.

required documentation were also regularly significantly delayed and not always structured according to UNEP requirements. For example, the final requirement regarding documentation of the equipment list for project closure remained unfulfilled from December 2008 to at least January 2010. As summarized in the project's final PIR, "The successful outputs and outcomes of the project have been achieved despite some weaknesses in the project's technical and financial administrative performance in relation to UNEP requirements."

79. There were multiple budget revisions, particularly with regard to the project extensions, and all budget changes were approved following UNEP guidelines. Audits were conducted annually, through the hiring of an external auditor to review the WI-HQ financial records. According to the 2006 audit report, the project financial statements "are compiled in accordance with generally accepted accounting principles", "all project expenditures are supported by vouchers and adequate documentation," and "expenditures have been incurred in accordance with the objectives outlined in the project document." The 2006 PIR notes "funds are correctly managed but required too many adjustment entries upon receipt of yearly audits." There is no indication that the project component sub-contracts (carried out by GEC and the three WI country offices) were audited; each component represented a relatively small amount of money, and all available evidence suggests funds were used in a responsible and effective manner. WI-HQ handled disbursement to the sub-contracts for the technical components without delays or other problems (following cash advance transfers from UNEP every six-months), and cash flow was not an issue other than the previously mentioned instance in the first half of 2005.

#### iv. Co-financing and Leveraged Resources

80. The project was highly successful in securing the expected co-financing, and in leveraging additional resources to address peatland management issues. As shown in Table 5, approximately \$1.4 million in co-financing was proposed at the start of the project, and more than \$2.1 million was received, which equates to 55.5% more than was planned. Thus the project's co-financing ratio was approximately 2.1 to 1. Co-financing came primarily from bilateral sources – CIDA and the Netherlands Government. CIDA provided \$1.2 million for the "Climate Change, Forest and Peatland in Indonesia" project which was particularly important in developing the models for community based peatland management in Indonesia and helping to build capacity at local, national and regional levels.

81. The funds <u>leveraged</u> by the project for peatlands management work building on the project's efforts are even more significant than the co-financing raised. The project identifies approximately \$9.5 million in leveraged resources for work to be carried out in China and Southeast Asia. The most significant source of leveraged funding was a 5 million euro (\$7.4 million United States dollars (USD)) project from the Netherlands government to continue and expand peatland rehabilitation work in Central Kalimantan from 2005 – 2007.

82. The actual figure for leveraged resources is arguably higher. For example, the project records indicate \$1 million in leveraged funds for a project funded from the European Union-China Biodiversity Partnership: "Integrated Management of Wetlands in Ruoergai Plateau and Altai Mountains to support Biodiversity Conservation and Sustainable Development," which includes the project demonstration site. This project actually has a total budget of \$3.3 million,

with sources other than WI and GEC contributing the majority of resources. As part of this project, significant resources were leveraged from the Chinese government as well. As stated in the project terminal report, "In China a visit by the Vice Minister of forestry to the project site led to an immediate allocation of US\$200,000 to expand the scope of the blockage of drainage channels in the peatland areas in Ruoergai county. This was facilitated by the fact that the local authorities had been closely involved in the implementation of the pilot activities and so were able to explain in detail the function and value of the interventions."

83. There are also significant funds that could be considered as leveraged resources for which the project has not claimed specific responsibility. In 2009 Australia committed \$30 million dollars to support the Kalimantan Forests and Climate Partnership (KFCP). The project was not necessarily primarily responsible for the leveraging of these funds, but made a significant contribution – the former GEF project technical lead presented information drawn from the project experience to the Australian government prior to Australia's commitment. The KFCP initiative is further highlighted in Box 3 under component 5 in Section V.B below. The \$10.2 million in co-financing for the regional peatlands project implemented by the International Fund for Agricultural Development (IFAD) (further discussed in Section V.B.v) could also be considered funding partially leveraged by the project.

## C. UNEP Project Oversight

84. The inadequacies in project management described above were exacerbated by a challenging relationship between the executing and implementing agencies. As noted in the project terminal report and PIRs, and as further seen in project documentation and supported by evaluation interviews, the implementing oversight relationship was characterized by poor communication, and inefficient reporting requirements. The difficulties encountered were compounded by the fact that there was high turnover in UNEP's task manager position for the project, with three individuals responsible over the life of the project. The full extent of supervision communication between UNEP and the project team was not available for review (partly due to the turnover in task managers), but it was clear that there were some egregious steps and resulting tensions. In one example, at the 2005 meeting a closed steering committee session was required to discuss the regional ASEAN peatland project being developed with IFAD as the executing agency (this project is further discussed under component 5 in Section V.B below). The project terminal report (produced by the EAs) notes that there was "a barrier to constructive partnership with UNEP" and that criticism from UNEP regarding project management and progress "could have been provided much more constructively." Many of the oversight problems during the main period of project implementation may have been directly relevant to the individuals involved, and UNEP took the necessary steps to improve the situation when there was the opportunity, although this was when the project was mostly complete. A new UNEP task manager took over supervision duties in September 2007, at which point communication and oversight diligence improved significantly.

85. The initial change in task manage, in the early part of the project around 2004, may have left the new task manager without the full context and understanding of the project's background, development, and activities, at least from the point of view of the EA. Yet apparently only one supervision field mission was undertaken, at the time of the final steering committee meeting in China in May 2006. The project's terminal report notes that "More

regular contact with UNEP might have reduced communication and project management issues" and recommends "For projects with field components, visits by the task manager would enhance mutual understanding. It would be strategic that task managers visit project sites at an earlier stage. By doing this, verification of activities carried out in the field can be seen and direct advice if needed can be made to the implementers. The task managers would also be more familiar with the issues being addressed by the project." This evaluation concurs with both of these statements.

86. Another shortcoming in supervision was the process for the second project extension. Following the initial extension to October 2006 there was agreement in principle between UNEP and the project team in April 2007 (which was already six months after the previous extension ended) for the project to be extended to June 2007. The requirements for the extension were communicated by UNEP to the EAs. However, the requested documentation to officially extend the project was not received from the project team until November 2007 (with the extension now going through December 2007) – 13 months after the previous extension had expired. From a financial and administrative management point of view, the fact that the project had, by September 2007 (when UNEP followed-up to receive the necessary documentation for the extension), carried on 11 months beyond its previous official closing date was highly problematic.

87. As further discussed in Section VI.E.i on project monitoring and reporting, the insufficient oversight by UNEP (combined with the problematic project management structure discussed previously) contributed to significant delays in a large number of reports and communications. Whether due to the project management structure or other reasons, the EAs frequently fell short in timely reporting and follow-up to issues raised by UNEP, which was challenging from UNEP's oversight perspective. As highlighted in one IA to EA communication, by September 2007 there were 11 delayed reports and other communications. UNEP noted in the 2007 PIR (the project's last), "UNEP's changes in [task manager] as well as other flaws have negatively impacted the proper teamwork on management as well as support to the EA in completing its work." There is clearly a balance of responsibility between the IA and EA in this and other troublesome project management / oversight matters, but the timing and sequence of events makes clear that more intensive or alternate approaches to supervision from UNEP was needed.

	GEF	% of GEF	GEF	% of GEF	Total	% of	Total	% of
	Amount	Amount	Amount	Amount	Planned	Total	Actual**	Actual
	Planned	Planned	Actual*	Actual *		Planned		Total
Component 1: Global Technical Component	125,500	14.3%	122,957	12.6%	213,500	8.6%	N/A	N/A
Component 2: Russia Country Study	102,000	11.7%	98,875	10.2%	160,000	6.5%	N/A	N/A
Component 3: Indonesia Country Study	100,705	11.5%	96,705	9.9%	932,615	37.6%	N/A	N/A
Component 4: China Country Study	103,500	11.8%	99,491	10.2%	227,000	9.2%	N/A	N/A
Component 5: Southeast Asia Regional Component	151,000	17.3%	143,000	14.7%	265,000	10.7%	N/A	N/A
Component 6: Outreach / Capacity Building and Linkage to Global Environment	252,000	27.4%	241,962	24.9%	476,500	19.2%	N/A	N/A
Conventions								
Component 7: Coordination and Report Synthesis	140,000	16.0%	169,714	17.4%	205,000	8.3%	N/A	N/A
Monitoring and Evaluation (no budget provision in project document)	0	0.0%	0	0%	0	0.0%	N/A	N/A
IA Fee*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	974,705		972,705		2,479,615		3,110,705	

#### Table 4 Integrated Peatlands Management Project Financial Breakdown (\$ USD)

Source: Planned amounts from Project document; actual amounts from project records provided for the evaluation.

\*Financial reporting records of actual costs did not clearly break out the IA fee, which may have been prorated across all components in project budgeting or was paid separately by the GEF to UNEP on top of the total project budget.

\*\* Co-financing was not tracked per project component, thus it is not possible to determine total actual expenditure per component.

#### **Table 5 Integrated Peatlands Management Project Anticipated and Actual Co-financing** (\$ USD millions)

Co financing (Type / Source)	IA o Fina	own ncing	Multi- Agencie Gl	lateral es (Non- EF)	Bi-la Doi	terals nors	Cen Gover	itral nment	Lo Gover	cal nment	Private	Sector	NG	GOs	Other S	Sources	To Finai	tal ncing	Percent of Expected Co- financing
	Propo	Actual	Propo	Actual	Propo	Actual	Propo	Actual	Propo	Actual	Propo	Actual	Propo	Actual	Propo	Actual	Propo	Actual	Actual share
	sed		sed		sed		sed		sed		sed		sed		sed		sed		of proposed
Grant			0.060	0.090	1.060	1.729											1.120	1.819	162.4%
Credits																			
Loans																			
Equity																			
In-kind													0.255	0.319			0.255	0.319	125.1%
Non-grant																			
Instruments																			
Other Types																			
TOTAL																	1.375	2.138	155.5%

Source: Project Final Revised Terminal Report, September 29, 2008.

## V. Integrated Peatlands Management Project Performance and Results

## A. Evaluation Key Questions

88. The following table provides a brief summary response directly to the evaluation key questions as defined in the TORs (see Section II.A). The key questions correspond directly to the project's anticipated outcomes. However, there were no adequate indicators, baselines and targets to objectively assess the answers to the key questions. Therefore, the summary answers below represent a subjective assessment based on the evaluative evidence presented in this report.

Key Question 1: Did the project 'improve understanding of the role of peatlands as carbon deposits in developing countries" among key target audiences (international conventions and initiatives, national level policy-makers, regional and local policy-makers, resource managers and practitioners)

Based on the projects outputs and activities, it appears highly likely that the project made a significant and valuable contribution to improving the understanding of the role of peatlands as carbon deposits in developing countries among key target audiences. At the global level, the recommendation by the CBD SBSTTA, highlighting the GPA, is one indication of increased understanding and awareness of the role of peatlands. The project also held numerous well-attended presentations and side events at international meetings such as UNFCCC COPs. While both of the executing organizations continue to highlight peatland issues in their advocacy efforts, it is highly likely that without this project far less would have been accomplished in terms of raising the profile of the importance of peatlands with respect to climate change. In addition, the GEF's strategic priorities for the fifth replenishment of the GEF (agreed in May 2010) includes, as a key outcome for the climate change focal area, "restoration and enhancement of carbon stocks in forests and non-forest lands, including peatland."

At the regional and national levels, the project's "Peat-Portal" network, support for the APMS, and capacity development activities contributed to improved understanding and awareness. The scientific review and synthesis in the participating countries has also produced important outputs highlighting the role of peatlands.

Within each of the demonstration countries there have been actions taken by government actors at local, sub-national and national levels that demonstrate an enhanced appreciation for the role of peatlands. Specifically, in Russia, the oblast administrations in the project area took actions to improve peatland management. In China, county and national level government institutions have provided increased support for peatland restoration activities at the demonstration site. Indonesia has recognized the role peatlands play in Indonesia's share of global greenhouse gas emissions and a variety of institutions and non-government actors are increasingly active in peatland restoration and management, although there remain numerous significant environmental threats.

*Key Question 2: Did the outputs of the project articulate options and recommendations for managing peatlands as carbon deposits while protecting biodiversity? Were these options and recommendations used? If so by whom?* 

Multiple project outputs identified options and recommendations for sustainable peatland management generating both climate change and biodiversity benefits, though there are many financial, social and political barriers to successful peatland management still to be addressed. The most significant project output was the GPA, the recommendations of which were formally supported by the CBD in SBSTTA recommendation 12/5. It is not possible within the scope of this evaluation to determine if these recommendations have been implemented, but the GPA continues to be in demand and in circulation, and is now in its third printing. It is notable that a GEF FSP on peatland management is currently being implemented in Southeast Asia, involving many of the partners of this project, applying their previous experience. Additionally, as mentioned in the previous question, the GEF has specifically incorporated restoration and enhancement of peatlands in its strategic priorities for GEF-5, which is likely to lead to the implementation of peatlands management recommendations. At the regional level, the APMS includes a detailed action plan for sustainable peatland management, and national action plans are being developed by ASEAN member nations. The demonstration sites in Indonesia and China, and the scientific research and synthesis in Russia also produced valuable lessons and recommendations, which were documented in scientific papers and peatland restoration manuals produced by the project. Anecdotal evidence indicates that the lessons and good practices for peatland restoration techniques from the Indonesia Kalimantan site are being used by other institutions and organizations involved in peatland restoration in Indonesia.

*Key Question 3: To what extent did the project outputs produced have the weight of scientific authority and credibility necessary to influence policy makers and other key audiences?* 

On the whole the project was of high technical quality. Many of the individuals involved are international experts in peatland issues related to climate change and biodiversity loss. The GPA was the main technical output at the global level, and has been used and referenced extensively.<sup>6</sup> The fact that the GPA was recognized and supported by the CBD's scientific and technical body is a significant endorsement of the scientific credibility of this report. In Indonesia, national government institutions have used the peatland atlas produced with the project's support in policy decisions. In Russia, the project team and other partners have published numerous scientific articles. While the scientific authority and credibility of the project outputs is not in question, as a partial targeted research project, the project might have had an even greater and long-lasting impact if it had produced more publications in peerreviewed journals to supplement the extensive gray literature produced. For example, an analysis of the restoration techniques assessed in the pilot sites could have been published, or other aspects of the project could have been synthesized.

<sup>&</sup>lt;sup>6</sup> A quick search on Google Scholar indicates that the assessment has been referenced 26 times in other publications, though not all of these are scientific references.

## **B.** Achievement of Anticipated Outcomes (Effectiveness)

89. As described in Section III.B.ii on project design, the project document lacked an adequate logframe, and the described objectives, outcomes and outputs are not clearly linked to the project components. Outcomes were partially retrospectively reconstructed in the later PIRs, but indicators, baselines, and targets were still not adequately defined to facilitate evaluation based on expected results. Achievement of objectives and outcomes – effectiveness - is rated <u>satisfactory</u>. The outcomes and indicators in Table 6 below, drawn from the final project PIR, were synthesized from the original project document.

Objective and	Indicator	Self-reported Results	Evaluation Assessment
Outcomes			
Objective: The project aims to address the capability of peatlands to act as significant carbon deposits, and provide recommendations on how these areas could be managed to ensure this attribute is maintained and even improved while protecting biodiversity	1. Improved understanding of the role of peatlands as carbon deposits in developing countries.	Significantly improved understanding of the role of peatlands as carbon stores in developing countries as demonstrated by strong supporting statements and decisions in CBD and UNFCCC deliberations as well as reports by IPCC and other authorities	Based on statements and documents from the CBD, UNFCCC and Ramsar, and the publication and dissemination of many technical documents from the project including the GPA, the identified indicators have been satisfactorily achieved. There were no quantitative targets identified related to the specified indicators.
	2. Improved availability of documents providing options and recommendations for managing peatlands as carbon stores while protecting biodiversity.	Peatland restoration manual and Global Assessment report and more than 10 other publications from the project in 5 different languages available to provide options and recommendations for managing peatlands as carbon stores while protecting biodiversity eligible countries.	
Outcome 1: Improved understanding of management issues affecting peatlands in selected case study countries.	1.1 Active participation of peatland managers and specialists from at least 15 countries in sharing and promoting management options for peatlands which take account of climate change and biodiversity issues.	Active participation of peatland managers and specialists from at least 25 countries in sharing and promoting management options for peatlands taking into account climate change and biodiversity issues	Concur with self-reported results. The reported number of countries with active peatland managers and specialists (25) may relate to those serving as authors of the GPA, and/or participation in the Peat-Portal website. In each of the case study countries, local and in some cases national level government officials have gained increased awareness and understanding of the importance of peatland management, as
	1.2 Status report on the scientific knowledge concerning the role of peatlands in accumulating carbon pursuant to various management practices and the relationship of these activities to biodiversity	Assessment on Peatlands Biodiversity and climate change prepared and welcomed by the CBD SBSTTA 12 meeting In July 2007	demonstrated by participation in project events and the associated allocation of resources, especially in China. Technical publications related to peatland management, which have subsequently been applied by other stakeholders, were also produced and disseminated in national languages in each of the case study countries. The indicators have been satisfactorily met. There were no quantitative targets identified related to

#### Table 6 Project Objective and Outcomes with Indicators and Results

			the specified indicators, other than the number of countries with active peatlands managers and specialists.		
Outcome2:Guidelinesonmanagementoptionsoptionsorinterventionstomaintainpeatlands' rolepeatlands' roleincarbon storage.	2.1 Recommendations to the GEF, CBD, Ramsar Convention and UNFCCC Contracting Parties on improving, enhancing and restoring peatland function to improve capability for carbon accumulation while concurrently enhancing/maintainin g conservation of biological diversity	Global Assessment on peatlands biodiversity and Climate change (produced by the project) formally welcomed by the CBD SBSTTA in July 2007; Executive Secretary of the CBD mandated to formally convey the assessment and recommendations to the UNFCCC COP13 in December 2007.	Concur with self-reported results. Th GPA includes management guideline and recommendations, and has bee widely disseminated, as noted in th self-reported results. Broadly speakin the project has produced a large body of information and documentation o which others can draw for developmer of projects or other activities related t peatland management for carbo storage and biodiversity conservation There were no quantitative target identified related to the specifie indicators		
	2.2 A document for eligible countries to assist them in developing projects if they so wish, related to the utilization of peatlands as carbon stores while protecting and restoring their biodiversity values	Synthesis report Peatland restoration manual and more than 20 other publications/ awareness materials from the project in 4 different languages (Russian, Chinese, Indonesian, English) available to provide information and guidance to eligible countries.			

#### i. Component 1: Global Technical Component

90. As shown in Figure 1, this component was overseen by GEC, with support from WI. Key activities and outputs under component 1 of the project were the technical review and synthesis of the global "state of knowledge" related to peatlands. This included a review of peatland management strategies and information on carbon accumulation in peatlands, and assessment of the impacts of peatland management practices on carbon stores and biodiversity, a review of possible peatland restoration options, and the production of background and issues papers as inputs to the other project components. Also produced was a web-based handbook on peatland restoration, which is available from the International Mire Conservation Group website. This manual is a "living document" to allow regular updates, with the latest version dated April 18, 2008. Technical support activities such as drafting workshops and technical advisory missions related to components 2 - 4 were also included. The project produced a large number of technical outputs related to synthesis of scientific information, and documentation of lessons and good practices from the demonstration sites. This included the peatland restoration handbook and manuals produced. The project apparently did not seek to produce technical peer-reviewed publications. Such publications would have complemented the extensive gray literature produced, and contributed to broader and longer lasting project outcomes. The project was not a technical field research project per se, but there were numerous aspects that could have been developed into peer-reviewed publications, such as the experiences with various peatland restoration techniques.

#### ii. Component 2: Russia Country Study

91. The Russia country study included three sub-objectives: 1. Review and conduct a gap analysis of key information on peatlands in Russia; 2. Assess the impact of management options on peat / climate / biodiversity at key regions; and 3. Enhance awareness and share information regarding peatland management / biodiversity / climate change interface. This component was carried out by the WI – Russia Country Office.

92. The Russia country study included 16 activities across the three sub-objectives. A large portion of the work included the review and synthesis of over 2,000 references, reports, and ongoing projects related to peatlands in Russia. Following the identification of knowledge gaps, some field research was conducted using closed chamber methods to assess greenhouse gas emissions in peatlands at various levels of degradation. The distilled information was developed as a series of review papers used for input to policy decision-making. An executive summary of the project technical papers and articles, with management recommendations, titled "Peatlands' Status in Russia and their role for biodiversity and climate change," was delivered to the Ministry of Natural Resources. Final regional workshops were held in Tver and Tomsk oblasts, with peatland management recommendations presented. Other activities included outreach and awareness activities such as a website promoting the wise use of peatlands in Russia – www.peatlands.ru (which continues to be maintained by Wetlands International – Russia), the publication of flyers and articles, study tours to the project demonstration sites in China and Malaysia, and an additional peatlands site at Sungari River in China. The project also supported the sharing of information among a network of interested managers, scientists and decision-makers.

93. Among the highlights of the Russia component was a high level workshop, "Wise Use of Peatlands in Russia", held from 20-25 September 2005. The workshop was held partially in the Ministry of Natural Resources of the Russian Federation and partially in Tver oblast, and included participation from Center of Environmental-Economic Research and Information, WI-Russia Programme, Tver State Polytechnic University, Scientific-Research Center "Radchenkotorf", Ministry of Environment and Nature Management of Moscow Oblast, and the Research Center "Mosoblekologia".

94. As a result of project activities, the Ministry of Natural Resources provided \$30,000 funding to develop the national methodology for inventorying wetlands as sinks and sources of green house gasses related to land-use, land-use change and forestry, which was one of the unexpected results of the project. At the sub-national level, following the project, Tver and Tomsk oblast administrations developed peatland conservation plans focused on biodiversity aspects. In 2008, the Tomsk oblast administration designated the Vasyuganie protected area of 1.5 million hectares, finalizing a process started during the project. The WI-Russia program continues to initiate policy discussions at the federal and oblast level on peatlands, but individuals involved in the project indicate that national policy has not necessarily become more favorable towards the sustainable management of peatlands.

#### iii. Component 3: Indonesia Country Study

95. This component also included three sub-objectives: 1. Review key information on peatlands in Indonesia; 2. Assess the impact of management options on peat / climate / biodiversity at key sites; and 3. Enhance awareness and share information regarding the impact of peatland loss on biodiversity and climate change. WI-Indonesia was responsible for this component.

As with the Russia component, a set of activities for the Indonesia country study 96. included a review and assessment of information on Indonesian peatlands. A significant technical output was the atlas of peatlands for Sumatra and Kalimantan, published in 2005.<sup>7</sup> According to project sources, the atlas has been used by local and national government institutions for policy making on peatlands, and by private sector and other actors. For example, at least four proposed peatlands concessions areas for industrial estate crops companies in South Sumatra were carefully studied prior to permitting by Ministry of Forestry using peat information gathered by the project and the peatland atlases. The atlases have also been distributed to international organizations and research institutes, such as WWF, CIFOR Manuals on peatlands restoration techniques such as canal blocking, fire and JICA. management, and above and below ground carbon measurement were also developed in Bahasa Indonesian and English. According to the project terminal report, "In early 2007 an Indonesian Presidential Instruction (INPRES 2/2007) directed the large-scale rehabilitation of peatland in the former mega Rice scheme – utilizing many of the techniques developed by the project." According to another source, a recent cost-benefit analysis by Indonesia's national planning agency identified peatlands as the highest priority for meeting the Indonesian governments 2009 pledge to cut greenhouse gas emissions by 26% by 2050.

97. Outreach and awareness targeted decision-makers, with policy dialogues and workshops organized at the national and provincial levels. The two high level workshops held were "Workshop on National Wetlands Strategy and Action Plan", Ministry of Environment office, Jakarta, February 25, 2005, and "Workshop on National Peatlands Management Strategy & Donors meeting", Ministry of Home Affairs, Jakarta, November 29-30, 2005. As in Russia, the Wetlands International Indonesia office established a communications network on peatlands / climate change / biodiversity with interested stakeholders and experts. As one example of the project's successful outreach efforts, the Al Jazeera television network showcased the demonstration site and project coordinator in their special feature on peatlands and climate change released on the first day of the UNFCCC COP 13 in December 2007. According to multiple stakeholders interviewed for this evaluation, the Central Kalimantan government has demonstrated it is positively disposed toward peatland conservation and restoration.

98. There were two separate field sites in Indonesia for the assessment and testing of restoration techniques: Merang-Kapahyang in South Sumatra, and the drainage basin between the Kapuas and Mantangai rivers in Central Kalimantan (see area outlined in red in Figure 2). Biological, physical and hydrological monitoring was carried out in both sites.

<sup>&</sup>lt;sup>7</sup> Reference: Wahyunto, Sofyan Ritung, Suparto, Subagjo (eds.) 2005. "Peat distribution and carbon contents in Sumatera and Kalimantan", Edited by I Nyoman N. Suryadiputra and Dandun Sutaryo, Wetlands International Indonesia Programme, ISSN No. 979-99373-4-5 (1500 copies).

Figure 2 Central Kalimantan Demonstration Site<sup>8</sup>



99. The Central Kalimantan demonstration site sits in a 40-50,000 hectare drainage basin, which was part of the failed former Mega-Rice project, in which the government of Indonesia set out to clear and build canals through 1 million hectares of peat forest in the mid-1990s. Demonstration activities were carried out in areas affecting approximately 6-8,000 hectares. Photo A shows cleared and burned peat former peat forest area, and Photo B shows one of the large canals extending for tens of kilometers that continue to drain extensive peat substrate. The main project field activities were the testing of canal blocking using local methods and materials, and tree planting from a local nursery to rehabilitate burned areas.

#### Figure 3 Photo Documentation from the Central Kalimantan Demonstration Site

Photo A. Former Peat Forest in Mega-Rice Project Area

Photo B. Drainage Canal in Mega-Rice Project Area



<sup>&</sup>lt;sup>8</sup> Source: Google Maps.

Photo C. Canal Blocking Dam Example 1



Photo E. Earthen Dam Spillway



Photo G. Illegally Cut Timber Rafted for Transport

Photo D. Canal Blocking Dam Example 2



Photo F. Boat Passage Over Restoration Dam



Photo H. Saplings Planted by Project Destroyed in August 2009 Fires



100. The evaluation field visit was carried out in the Kalimantan field site to view the canal blocking techniques and assess the activities completed and the sustainability of results. The demonstration site activities were not intended to restore large areas of degraded peatland, but to test techniques that could be employed with much larger investment. According to individuals involved, only about \$10,000 of the Indonesia country component was used in the Central Kalimantan site to support restoration activities. Achieving any significant amount of

restoration would require a much larger investment, along the lines of the KFCP initiative. Local community members were employed to implement innovative low-tech restoration techniques involving building dams with local materials to reduce the rate of water flow through the large drainage canals (see Photos C and D).

101. Throughout implementation of the canal blocking the project team gained insight and learned lessons vis-à-vis specific techniques. For example the team learned to construct spillways so that the blocked water wouldn't completely wash out the dam during the wet season (see Photo E). Spillways also facilitated the passage of local boats (Photo F), which use the canals extensively for transportation. The team learned to plant saplings on the downstream side of the dams during the dry season, to help support the dam and eventually create a natural barrier. Some local community members discovered that the blocked canals could provide improved fish harvest during the dry season. It was also found that illegal loggers, who use the canals to transport cut timber (Photo G), also destroyed some dams. The evaluation field visit, carried out two to three years after the end of project activities, provided a view to the sustainability of certain restoration techniques. The local unavailability of sand or other mineral soils for dam construction remains a significant barrier to large-scale restoration.

102. Demonstration site activities also included tree planting in an effort to restore burned areas with vegetation, but unfortunately a fire in the summer of 2009 destroyed approximately 50% of the planted saplings (see Photo H).

103. Less information is available about the Merang-Kapahyang demonstration site in South Sumatra, though similar activities were carried out in this site. According to one source there are initial plans to develop the site into a 150,000 hectare carbon reserve, financed by a private company from the United Kingdom, from which carbon credits could be sold under the UNFCCC REDD mechanism or on the voluntary carbon market.

#### iv. Component 4: China Country Study

104. As with the other country study components, the China component was carried out by Wetlands International's China Office, and had three sub-objectives: 1. Information sharing and review; 2. Assess impact of management options on peat / climate / biodiversity at key sites; and 3. Enhance awareness of the impact of peatland loss on biodiversity and climate change. During the May 2006 steering committee meeting, steering committee members highlighted their view that the component in China "had been more effective than many projects in China partly because it had been managed by an NGO."

105. Activities included a technical literature review and synthesis on peatland status and distribution, key threats and management regimes, and the interface between peatlands, biodiversity, and climate change. Information gaps were identified and further desk study undertaken. An international workshop on peatlands biodiversity conservation, restoration and sustainable use was held in Lanzhou July 7-9, 2004, attended by 100 participations. A professional network was established, and two training sessions were held for media regarding the monitoring of the restoration of peatlands. A final wrap-up workshop was held with international and local partners at the field site in Ruoergai County in May 2006 to share and disseminate lessons and experience. Additional awareness activities included the production and distribution of 10,000 newsletters and 500 brochures and factsheets. At the 2006 project
steering committee meeting it was further noted that the project had been impressive with respect to "the achievements in raising political awareness and securing political support. Politicians seem to be aware of issues related to peatland conservation and are providing their support through participation in project activities such as the recent stakeholder workshop."

106. The field demonstration site was located in the Ruoergai peatlands, which cover approximately 500,000 hectares at an altitude of 3400 - 3900 meters, one of the largest high altitude peatlands in the world. The area has been degraded through conversion to agriculture and grazing pressure, leading to erosion and loss of wetland areas. The project established an MOU with the Hongyuan and Ruoergai County governments regarding peatlands restoration. This partnership set the foundation for additional work, including a \$1.6 million project funded by the European Union.<sup>9</sup>

107. There were four pilot sites established in which sandbag and wooden dam techniques were tested for blocking canals and erosion drainages to restore the peat areas (see Figure 4). According to project documentation, the area has been subsequently monitored by German scientists, and has shown improved hydrological function, and vegetation and biodiversity recovery. Training exercises were successfully held with over 50 people from local government concerning the function and value of peatlands, and management and restoration options. The

Figure 4 Peatland Sandbag Restoration Techniques in Ruoergai Demonstration Site (Source: GEC)



demonstration restoration work encouraged the government to prioritize wetlands conservation, and the State Forestry Administration has shown its appreciation of the restoration efforts through recognition by the Vice Administrator. A significant outcome of the demonstration site efforts was an increased recognition by the government of the ecosystem services provided by peatlands, specifically the hydrological regulation peatlands provide for the downstream Yellow River watershed.

108. According to the project's terminal report, prior to the scientific work carried out at the project field site, wetlands research had focused primarily on wetland biology; the interaction between wetlands and socio-economic development, especially in relation to agriculture and livestock, was rarely considered. The project contributed to an increasing awareness by local government of the importance of the linkage between agricultural development and wetlands

<sup>&</sup>lt;sup>9</sup> Project: "Integrated Management of Wetlands in Ruoergai Plateau and Altai Mountains to support Biodiversity Conservation and Sustainable Development" See:

http://www.undp.org.cn/showproject%5Cproject.php?projectid=00057530.

conservation, and according to the project terminal report, an area of mined peatland in Hongyuan was set aside for restoration.

#### v. Component 5: Southeast Asia Regional Component

109. This component focused on the development of a regional peatlands management strategy through ASEAN, and increasing awareness and capacity at the regional level on peatland management issues. The regional ASEAN Peatland Management Strategy for 2006 – 2020 was prepared through consultative workshops in Bogor in 2003 and 2005, and formally

#### Box 2 Background and Overview of APMI and APMS

**ASEAN Peatland Management Initiative:** The APMI was first proposed at the 9<sup>th</sup> ASEAN Ministerial Meeting on Haze on 11 June 2002 in Kuala Lumpur. The APMI was adopted at the 20<sup>th</sup> Meeting of the ASEAN Senior Official on the Environment-Haze Technical Task Force in Manila in February 2003, together with an initial work plan (2003-2005) that included development of a regional strategy.

<u>APMI Goals</u>: Promote sustainable management of peatlands in the ASEAN region through collective actions and enhanced cooperation to support and sustain local livelihoods, reduce risk of fire and associated regional haze, and contribute to global environmental management.

#### APMI Objectives:

- Enhance understanding and build capacity on peatland management issues in the region
- Reduce the incidence of peatland fires and associated haze
- Support national and local level implementation activities on peatland management and fire prevention
- Develop a regional strategy and cooperation mechanisms to promote sustainable peatland management

ASEAN Peatland Management Strategy: The strategy was developed within the framework of the APMI, and was initiated during the first regional workshop on the APMI, held in Bogor, Indonesia on 16-17 October 2003, where each ASEAN Member Country presented background information and a country paper. The ASEAN Secretariat, with the assistance of the GEC, then developed the outline into a full regional strategy, taking into account the discussions in the regional workshop, country papers, statements and recommendations from relevant workshops and conferences on peatlands, and inputs and comments gathered from ASEAN Member Countries, APMI partners and supporters. The ASEAN Secretariat circulated the first draft of the regional strategy in July 2004. ASEAN Member Countries were requested to conduct their respective national consultations to provide inputs to the draft strategy. The Second Regional Workshop on the APMI was held at the end of May 2005 to consolidate results of the national consultations and finalize the draft regional strategy. The APMS was formally endorsed by the ASEAN Environment Ministers meeting, 10 November 2006 in Cebu, Philippines.

The APMS has the same goal as the APMI, and a detailed action plan to implement the four objectives:

- Objective 1: Enhance awareness and capacity on peatlands
- Objective 2: Address transboundary haze pollution and environmental degradation
- Objective 3: Promote sustainable management of peatlands
- Objective 4: Promote regional cooperation

Source: ASEAN Secretariat. 2007. "Strategy and Action Plan for Sustainable Management of Peatlands in ASEAN Member Countries," Jakarta: ASEAN Secretariat. <u>http://haze.asean.org/peatlandmanagement/apms</u>.

adopted by ASEAN in November 2006 (see Box 2). By the end of the project five countries were working on National Action Plans.

110. Specific online tools / websites were employed as part of this component to help raise awareness and share information about peatland management in the region. The project established the SEA-Peat Network e-group with over 500 members, and further developed the Peat Portal website (http://peat-portal.net/). Information was also disseminated through the ASEAN Haze Online website (<u>http://haze.asean.org/</u>).

111. Additional activities under the awareness and capacity development portion of this component included support for three regional workshops, one national and two regional training courses on peatland fire prevention and control, and four study tours. The project conducted public outreach regarding the APMI, and produced awareness brochures and other materials in four languages that were displayed and distributed at relevant regional forums. Additional resources went to small pilot activities in Malaysia and Viet Nam: In Malyasia's Raja Musa Forest Reserve three small dams were emplaced in abandoned logging canals to test the effectiveness of different dam construction materials; a grant of \$5,000 was awarded to the Viet Nam Environmental Protection Agency to initiate a variety of activities supporting peatland conservation and sustainable management. The component also engaged the government of Thailand, which voluntarily translated the peatland restoration manual into Thai.

112. One of the outputs under this component was the securing of additional resources for national and regional initiatives on peatlands management. A key follow-up to the project is a subsequent GEF-supported regional full-sized project, "Rehabilitation and Sustainable Use of Peatland Forests in Southeast Asia," also executed by GEC, with IFAD as the implementing agency. Other partners include the ASEAN Secretariat, and national and local government stakeholders in the participating countries of Indonesia, Malaysia, the Philippines and Viet Nam, as well as Brunei Darussalam and Singapore. The project has a four-year implementation period and a total budget of \$14.5 million, including \$4.3 million in GEF financing. According to

GEC's website, the project "aims to Box 3 The Kalimantan Carbon Forest Partnership demonstrate, implement and scale up sustainable management and rehabilitation of peatland forests in South-East Asia. It fits within the framework of the APMI, and directly supports the APMS (2006-2020), and associated National Action Plans on Peatlands in the participating ASEAN countries." The project is also highlighted on the ASEAN Haze Online website.<sup>10</sup>

113. Another significant follow-up initiative is the KFCP initiative, funded with \$30 million Australian dollars by AusAID (further detailed in Box 3). The

In 2008 Australia committed A\$30 million to support the first large-scale REDD demonstration in Indonesia. The demonstration activity is being implemented in an approximately 120,000 hectare area of forested and degraded tropical peatlands in Central Kalimantan. The KFCP aims to reduce greenhouse gas emissions and demonstrate an equitable and effective approach to REDD by developing:

- Measures to reduce emissions from deforestation and forest degradation;
- Approaches to forest carbon measurement, linked \_ with Indonesia's national systems;
- Incentive based payments for forest-depending communities in Central Kalimantan; and
- Institutional and governance arrangements for REDD activities.

Source: AusAID. 2009. "Kalimantan Forests and Climate Partnership Factsheet," December 2009.

<sup>&</sup>lt;sup>10</sup> See http://haze.asean.org/peatlandmanagement/gefifad.

KFCP project area includes the former GEF project demonstration site.

#### vi. Component 6: Global Outreach and Linkages to Conventions

114. This component was managed by GEC, and focused on increasing understanding and awareness of the role of peatlands among audiences related to the UNFCCC, CBD and Ramsar convention. A primary output under this component was the development and publication of the Global Peatlands Assessment,<sup>11</sup> developed with extensive input from a broad range of sources and expert authors. This document is an incredibly valuable resource that brings together a massive amount of information on all different aspects of peatlands, and can be considered an excellent achievement of the project (even if it did take longer to produce than planned). Unfortunately GEC has not tracked the website traffic and number of downloads of this document to assess its possible reach and influence.

115. Key project outputs, including more than 80 publications, were widely disseminated in the global outreach component, especially the GPA, which was formally presented to the CBD SBSTTA in July 2007, which recognized and welcomed the report. The meeting's recommendation 12/5 "Urges Parties, other Governments, donors and relevant organizations to support further action, such as the ones listed in the global Assessment of Peatlands, Biodiversity and Climate Change, that could contribute to the conservation and sustainable use of peatlands and assessment of their positive contributions to climate change response activities."<sup>12</sup> The report was also promoted at the UNFCCC COP 13 in Bali in December 2007. A UNEP press release at the COP highlighted peatlands as a quick and cost-effective measure to reduce 10% of global greenhouse gas emissions.

116. Individuals involved in the project attended 25 convention meetings to promote peatland biodiversity and climate change issues: five UNFCCC COPs, seven UNFCCC Subsidiary Body for Scientific and Technological Advice (SBSTA) meetings, one CBD COP, five CBD SBSTTA meetings, and seven Ramsar meetings. According to the project terminal report, individuals involved in the project made more than 200 presentations at national, regional and international meetings in more than 20 countries. Twelve workshops were also held at multiple convention meetings to raise awareness. According to the project team, peat-related side events at UNFCCC COPs at the beginning of the project attracted 20-30 participants, while the side event held at the UNFCCC COP in Copenhagen in December 2009 attracted 200 people (though overall COP attendance has increased many-fold in this time period as well). Project results were shared with "relevant" GEF focal points, according to the project terminal report. Also under this component, a global workshop on Integrated Management and Rehabilitation of Peatlands was held February 6-7, 2004 - immediately before the seventh COP of the CBD, in Kuala Lumpur. There were 95 workshop participants from Europe, Asia and North America.

117. One indication of the project's sustained effects is that under the 5<sup>th</sup> objective of the GEF's climate change strategic priorities for its fifth replenishment, a key expected outcome is

<sup>&</sup>lt;sup>11</sup> Reference: Parish F., Sirin A., Charman D., Joosten H., Minaeva T. and Silvius M. (eds) 2007. Assessment on peatlands, biodiversity and climate change. Global Environment Centre, Kuala Lumpur and Wetlands International Wageningen.

<sup>&</sup>lt;sup>12</sup> The full text of the recommendation, which extensively highlights the GPA, can be found at <u>http://www.cbd.int/recommendation/sbstta/?id=11464</u>.

the "restoration and enhancement of carbon stocks in forests and non-forest lands, including peatland." This could potentially have a significant long-term impact, as these strategic priorities will guide GEF investments in the climate change focal area for the next four years. Another unexpected result from this component is that methodologies for measuring greenhouse gas emissions from peatlands are being developed and incorporated in the Voluntary Carbon Standards used in the international voluntary carbon market. The private sector is becoming increasingly interested in Indonesia's carbon market potential.<sup>13</sup> In another development, the UNFCCC's carbon accounting methodologies will distinguish between organic and mineral soil carbon, opening a door for the importance of peatlands to be operationalized.

# vii. Component 7: Project Coordination and Development and Report Synthesis

118. As previously described, WI and GEC were responsible for project management and technical coordination. The activities under this component focused on project management, technical support, monitoring, and financial management:

- Monitoring of project technical activities (17 monitoring visits completed to China, Indonesia and Russia);
- Evaluation of project technical activities (three technical review meetings held by component leaders to compare and evaluate progress, terminal evaluation carried out);
- Monitoring of project financial expenditure (completed through quarterly financial reports and annual audit);
- Annual audit of project accounts (completed);
- Coordination of project cash-flow (completed);
- Development of partnership agreements (completed);
- Development and updating of guidelines for project management and administration (see information on project management, monitoring and reporting);
- Organizing and running project steering committee (three meetings held).

119. These topics are otherwise covered in Section IV.B on project management and financial management, and Section VI.E.i on project monitoring and reporting.

# VI. Key GEF Performance Parameters

# A. Sustainability

120. Sustainability ratings are provided in this report, as required. The fact that this terminal evaluation is ex-post – carried out more than two years after formal project completion, and more than three years after a majority of activities were finished - presents an opportunity for increased visibility toward the sustainability of project results, at least in the short-term. In the context of GEF projects there is no clearly defined timeframe for which results should be sustained, although there is the implication that they should be sustained indefinitely. It must

<sup>&</sup>lt;sup>13</sup> For example, see Kusumaatmadja, R. "Private Sector Opportunities in Indonesia and the United States for Investment in REDD Projects," Presentation, Jakarta, October 6, 2009.

be kept in mind that sustainability is a dynamic state, which can be dramatically influenced by small changes in context and external factors. Therefore, the longer the time horizon, the lower the degree of certainty possible when evaluating sustainability.

In the case of the Integrated Peatlands Management project, it is particularly important 121. to distinguish between risks to the sustainability of project results, and risks to the sustainability of peatlands in general (which are manifold). Although this was a "global" project working toward sustainable peatland management and restoration, the project objective was not to directly ensure the conservation and sustainable management of all global peatlands. The project sought to provide recommendations on the management of peatlands to maintain their carbon storage function, while protecting biodiversity. The project produced a broad range of results, from local to global levels, and from basic publications to on-the-ground restoration to high-level outcomes. Annex III of the project's 2004 steering committee minutes includes a sustainability plan, which had six main elements: multi-stakeholder involvement and support; linkage to implementation of current policies or priorities; linkage to long-term programmes or projects; contribute to the setting of procedures and priorities in global environmental conventions; generate additional financial support; and, encourage involvement of international organizations and mechanisms. The sustainability plan did not outline a specific workplan to be carried out, but through the activities of the project these elements have in fact contributed to the sustainability of the project results, as further discussed below.

#### i. Financial Risks to Sustainability

122. There are few risks to financial sustainability, and financial sustainability it considered likely. A majority of project resources were used to synthesize and publish technical information, and to raise awareness and develop capacity on peatland management issues. The nature of these results is that they are for the most part, self-sustained. The GPA will remain in circulation as long as it remains relevant, though this will be assisted by it remaining available for download from GEC's website (as it is currently). The executing organizations have managed to secure funding for additional printings of the project materials, as required.

123. At the regional level, the currently implemented GEF FSP is supporting additional work on peatland management in Southeast Asia, and assisting in the implementation of the APMS. At the local level, additional resources (much greater than those disbursed by this project) are being invested in the demonstration sites in both China (i.e. the EU-funded project) and Indonesia (i.e. the KFCP initiative), from a variety of sources. In Indonesia particularly, and possibly other areas as well, there is also great potential to secure future resources through either REDD or the voluntary carbon market. Based on the experience of the project and other efforts in Indonesia, the cost of sequestering carbon through peatland restoration is quite favorable in relation to the current price of carbon under current international regimes.

124. In the Central Kalimantan demonstration site the actual on-the-ground efforts are not likely to be sustained; considering their limited geographic coverage and their nature as demonstration activities, this is not a major concern. Without ongoing maintenance the dams constructed will eventually deteriorate, with the help of illegal loggers and other community members that use the canals for transportation. A significant portion of tree planting carried out has been lost to fire. But the knowledge gained, documented, and disseminated through the demonstration activities will remain in the form of the technical publications and manuals produced by the project. A greater concern would be if WI or GEC were to disappear and therefore be unable to carry forward and disseminate the knowledge and experience from the project, but this does not appear to be an issue.

125. The GPA repeatedly highlights the difficulty of peatland restoration, and when one views the massive scale of degradation – for example, the former mega-rice project landscape – it begs the question what are the real long-term prospects for peatland restoration in these larger landscapes? Undertaking demonstration activities in a few thousand hectares is one thing, but the scale of resources and effort required to make a significant impact is nearly overwhelming, not to mention the long timeframes required. Many experts consider that we have only approximately 30-40 more years to make significant progress against climate change. A top priority then must clearly be avoiding any further degradation of peatland areas. For already degraded areas, what are the full range of potential solutions? It seems unlikely that the international donor community could (or would be willing) to generate the resources necessary to adequately restore huge areas of degraded peatlands. The global carbon market is currently a "Wild West" market landscape, but this is likely to be a key long-term opportunity for accessing resources of adequate scale for peatland restoration, if the global community can find the political will to set in place the necessary market mechanisms and processes.

#### ii. Sociopolitical Risks to Sustainability

126. There are few sociopolitical risks to the sustainability of project results, and sustainability in this area is rated as likely. There are significant sociopolitical risks to peatlands, but this is beyond the scope of this evaluation; Chapter 3 of the GPA extensively discusses peatland management issues related to people. At the site level, sociopolitical factors are contributing to the deterioration of the project's demonstration works, in Central Kalimantan for example as previously mentioned, where the dams constructed have been partially dismantled by local stakeholders. However this is not a major concern as the knowledge gained through the small-scale demonstration efforts will be carried on.

#### iii. Institutional Framework and Governance Risks to Sustainability

127. There are four main questions related to institutional and governance risks to the sustainability of project results, corresponding to each level of project implementation. For each question the answer appears to be cautiously optimistic, and sustainability in this realm is rated likely.

128. First, how and to what extent will peatland management issues be incorporated in future developments under the major international conventions, namely the UNFCCC and CBD? There are indications that the role of peatlands in sequestering carbon and maintaining biodiversity continues to grow as an issue of importance within these policy frameworks.

129. Second, what is the likelihood for implementation of the APMS? Full implementation of the strategy will take significant time and resources, but the current GEF-funded, IFAD

implemented, ASEAN/GEC-executed FSP is contributing to progress in this area.<sup>14</sup> Multiple ASEAN countries are developing National Action Plans to implement the strategy. It would be especially encouraging to see national policies changed and implemented corresponding to the strategy, but such steps are part of an iterative process and take time in any part of the world.

130. Third, relating to the previous question, what is the level of political will in China, Indonesia and Russia to address peatland degradation and restoration through the development and implementation of responsible and adequate policies? The answer to this will only be known over an extended period of time, and may be the least optimistic from the present point of view; lacking the capacity for much more extensive analysis, this evaluation does not attempt to provide an answer. At the very least, it is safe to say there remains a great need for additional awareness, capacity development, and lobbying at the national level in support of peatlands.

131. Finally, what is the level of awareness, understanding, and commitment of sub-national / local government stakeholders in the demonstration sites regarding the importance of peatland conservation and restoration? Positive steps, highlighted earlier in this evaluation, by the Tomsk and Tver oblast governments in Russia, Ruoergai and Hongyuan county governments in China, and the Central Kalimantan provincial government in Indonesia all indicate limited institutional and governance risks to sustainability at this level.

#### iv. Environmental Risks to Sustainability

132. For the Integrated Peatlands Management project this criteria is primarily relevant, in a direct sense, to the project demonstration sites. Ideally the works undertaken at the demonstration sites would not be lost, even considering the tiny fraction of the overall project budget they represent, but through the lessons and good practices generated they have already proven to be a good investment. To the extent it is relevant in the context of this project, environmental sustainability is considered likely.

133. The Central Kalimantan demonstration site in Indonesia is included in the KFCP project area. Since the project sought to test restoration techniques, the demonstration site began as a severely degraded area that had already been clear-cut, channeled, and burned. There are some low-level environmental threats to the area, such as illegal logging in bordering areas that have not been cleared, as testified by a few small-scale sawmills on the banks of the Mantengai River. Palm oil development is also an issue in previously degraded areas of the former Mega-Rice project, but there are no known immediate plans for palm oil plantations in the project demonstration site's immediate vicinity.<sup>15</sup>

134. Extensive information was not available about the current status of the Ruoergai demonstration site in China. Although not a direct ouput of the project, the recently designated

<sup>&</sup>lt;sup>14</sup> This evaluation assumes the project here referred to is being successfully implemented, but does not have direct knowledge of the project's implementation status.

<sup>&</sup>lt;sup>15</sup> A recent article in The Economist highlighted the ongoing threat to peatlands from palm oil, noting that as a result of palm oil plantations "enormous amounts of carbon dioxide are released as forests and peatlands are destroyed." Ironically, one of the uses for palm oil is for biofuel to reduce GHG emissions, and multiple EU countries have set targets for biofuel use. However, the palm oil industry claims that plantations on degraded peatlands sequester more carbon than if the degraded areas were left as they are.

protected peatland areas in Tver and Tomsk oblasts in Russia can be considered a positive outcome to which the project contributed. Substantive information about environmental risks to the sustainability of these areas was also not available for this evaluation.

# B. Catalytic Role: Replication and Scaling-up

135. Annex III of the project's 2004 steering committee minutes includes a replication plan. The Integrated Peatlands Management project has had a strong catalytic effect, as demonstrated by the co-financing leveraged, which was 55% higher than anticipated at the start of the project, and by the project's contribution to a significant amount of resources leveraged for related efforts, totaling at least \$10 million USD (see Section IV.B.iv on co-financing and leveraged resources). The specific inclusion of peatlands in the GEF's climate change strategic priorities for GEF-5 can also certainly be considered catalytic.

136. The project also helped galvanize additional efforts through raising awareness and building capacity on peatlands restoration and management. In one anecdotal example, at the China demonstration site twice as many people participated in a stakeholder workshop for local and provincial government officials than expected. The majority of additional resources leveraged in China for peatland restoration and management in the Ruoergai peatlands can be directly attributed to the project.

137. Other projects and initiatives, such as the KFCP program in Central Kalimantan, have carried forward and scaled up results and lessons in the project demonstration sites. Project outputs and awareness materials have helped disseminate experiences and lessons from the small-scale demonstration activities, and preliminary indications are that good practices are being taken up by other organizations. For example, other NGOs working in Central Kalimantan peatlands have specifically requested copies of the peatland restoration manuals produced by the project in Indonesia, and many of the same individuals who were involved in the demonstration sites are now working with follow-on initiatives. Yet there remains a need for much greater scaling-up of sustainable peatland management and restoration efforts to conserve carbon stocks and biodiversity associated with peatland ecosystems.

138. At the global level, it remains to be seen what formal and concrete actions the parties to the UNFCCC and CBD will take regarding peatland management. Movement toward greenhouse gas emissions measurement methodologies that take peatlands into account is a positive initial step.

# C. Stakeholder Participation in Implementation

139. As mentioned through this evaluation report, stakeholder participation during implementation was a strength of the project. At the site level, local community members and government stakeholders were involved and positively engaged in the project demonstration activities, awareness-building and capacity development. In Indonesia the project relied on local community members and local techniques to construct the canal-blocking dams. Within the Southeast Asia region the project positively engaged the ASEAN members, contributing to the development of the APMS. The GPA relied heavily on the contribution of a large number of international scientists and other stakeholders, and the relevant target stakeholders in the CBD, UNFCCC, and Ramsar convention were actively engaged.

# D. Capacity Development

140. The Integrated Peatlands Management project included specific capacity development activities in a majority of the components, such as training courses and study tours in China, Indonesia, and other ASEAN member countries. For example, under component 5, basic "train-the-trainer" workshops on peatland management were held in Myanmar (15 people), Cambodia (20 people) and Laos (18 people).

141. The executing organizations themselves gained capacity through the experience of implementing the project. GEC and the WI country offices are now engaged in executing much larger projects than this one.

142. There is, however, no objective way for this evaluation to assess increases in capacity resulting from the project – there were no adequate capacity indicators, capacity needs assessments were not conducted, and there is little information available about outcome level (or even output level) results of the capacity development activities.

# E. Monitoring and Evaluation

#### i. Project Monitoring, Reporting, and Evaluation

143. Project-level monitoring, reporting and evaluation was among the weakest aspects of the project. The project started off hampered by poor M&E design, and this led into problematic M&E implementation throughout the project's lifetime. As noted in the 2007 PIR, "The fact that the project was designed and approved prior to the implementation of new GEF M&E guidelines and associated reporting formats created some difficulties in effective reporting against targets." The brief M&E plan in the project document includes an annual PIR, quarterly technical progress and financial reporting (changed to half-yearly by the second steering committee meeting), and an independent external terminal evaluation. Annex 1 of the 2003 steering committee minutes includes a more detailed M&E plan (also mentioning financial audits), and a logframe with a column for "Impact Indicators" and "Means of verification" for expected outcomes; both of these columns are left blank. This annex does include information outlining timing of M&E requirements, and roles and responsibilities of the IA, EA, component leads, and steering committee.

144. The project design did not include an adequate logframe, and in particular, lacked outcome indicators, baselines, and targets by which to track project progress toward objectives. The project document does include a monitoring and evaluation plan with a "framework" for the monitoring and evaluation plan, which includes indicators, but these are far from meeting "SMART" criteria and are primarily output indicators for the planned activities, such as a report produced or meeting held. It should be noted that developing SMART outcome-level indicators for global projects focused on increasing understanding and awareness can be challenging due to the inability to directly attribute measurable results to project efforts, and the large geographic, political, and social scales involved.

145. Many of the project activities were related to increasing understanding and raising awareness about the importance of peatlands, but there were no relevant measurable indicators related to awareness, nor associated baselines or targets - with one shining exception: In the Russia Country study component there was a sociological baseline study

conducted in Tver oblast regarding stakeholder attitudes toward peatlands, attitudes toward peatland restoration, and willingness to pay for restoration. This is one bright spot in the project's approach to M&E, particularly so because social attitude baseline studies are rarely conducted in GEF projects. Otherwise, as stated in the 2007 PIR, "Lack of impact indicators has seriously affected measuring project performance and impact, both at the EA side as well as UNEP as supervisor."

146. There was no designated M&E budget (see previous Table 4), which contributed significantly to the problematic progress reporting, and caused other issues. As described by the 2007 PIR, "The ambitious nature of the project...despite the modest budget [left] relatively little resources for baseline assessment and independent monitoring of progress." There were also challenges related to coverage of local travel costs related to the terminal evaluation field visit. GEF tracking tools were not applied under the project.

147. Project progress reporting was problematic in terms of reports being delayed, although progress reports and other monitoring and reporting documents were generally comprehensive, with the exception of some parts of the PIRs. One valuable and well-executed aspect of project monitoring are the detailed steering committee minutes, which clearly document the discussions, decisions taken, and follow-up actions required. Reporting practices had improved by the end of the project with a new PIR format introduced in 2006 and more flexibility in the regular progress reports, although reports continued to be significantly delayed. Reporting in progress reports, PIRs, and the terminal report was also admirably candid and realistic with respect to the problems encountered in project management and M&E. On the technical side there are some unsubstantiated achievements claimed in the progress reports; for example, the terminal report states under component 6 that the GPA report is "widely used for input to policy making and stimulating further action" but does not include the evidence on which this statement is based.

148. Responsibility for the problems in project monitoring and reporting falls on both the implementing and executing agencies. On one hand, initial UNEP progress reporting templates and requirements were time-consuming and not structured in relation to progress toward outcomes and objectives, instead requiring extensive details on project meetings held and publications produced. As noted in the 2007 PIR, "The project has also been somewhat affected by changes in project management and reporting procedures in GEF/UNEP and also some variance and delays in the reporting requirements. The project did develop an internal reporting procedure which was effective in tracking progress against internal project objectives and indicators and promoting the production of the technical results of the project - but these reports could not be used to meet UNEP reporting requirements and this led to significant reporting delays as reports needed to be rewritten and formatted." The terminal report continues, "this meant that funds were wasted undertaking this process and confusion was generated in partners regarding formats to use and information to prepare. This problem continued throughout the project period."

149. At the 2005 steering committee meeting, UNEP stated that the progress reports did not provide the necessary information on the direction and impact of the project, while the project team noted that "the reporting framework had (following initial consultation with UNEP) originally been designed to provide a logframe based approach to reporting that gives

information more in line with [the requested information] but that this reporting had subsequently been rejected by UNEP about 12 months after the start of the project and as a consequence the decision had been made to return to the standard UNEP format, which does not give useful overview information on project progress." The January-June 2005 progress report does include a summary of progress toward outcomes and objectives.

150. On the other hand, as discussed in Section IV.B on management arrangements, there were two organizations involved in project execution, which apparently led to an inadequate level of direct responsibility for progress reporting to UNEP. Also contributing to the problem was poor communication between the project management team and UNEP, as discussed in Section IV.C on oversight. According to project documentation, reporting was insufficient and frequently delayed beginning in the early days of the project; timeliness did not improve over time, with the project's final revised terminal report dated nine months after project close, and more than 15 months after the completion of all the main activities. UNEP also did not follow-up on delayed reports in a timely manner until the final task manager took over at the end of the project. Ultimately, once timeliness of reporting slipped, it tacitly remained a low priority. This is further demonstrated by the fact that this terminal evaluation was not contracted until 21 months after project completion, and the terminal evaluation report was only completed nine months later – far beyond the GEF standard of one year after project completion.

#### ii. Environmental Monitoring

151. The majority of the work completed by the project was to support technical synthesis, capacity development, and awareness-raising; environmental monitoring is not directly relevant to these aspects of the project. The demonstration sites do warrant a brief discussion on environmental monitoring, particularly in that other organizations are undertaking similar work at the sites. Environmental monitoring data to identify potential impacts was not available for this evaluation.

152. According to project documentation, biological monitoring was carried out in both of the Indonesia demonstration sites. Hydrological monitoring continues to be carried out in the Central Kalimantan project area under the KFCP initiative. Near the end of the project, one of the project's key technical advisors contributed to an influential analysis of CO<sub>2</sub> emissions from drained peatlands in Southeast Asia, which is considered to have been key to the global community recognizing deforested peatland as a significant source of Indonesia's GHG emissions.<sup>16</sup> A national monitoring station was established in Ruoergai as a result of the project, and there is some indication that environmental monitoring is being conducted by German scientists at the China demonstration site in Ruoergai (presumably from Ernst-Moritz-Arndt University Greifswald, one of the partners in the EU-China Biodiversity Partnership project). In the Russia country study research was conducted on GHG emissions from peatlands by the Tomsk Academy of Sciences.

153. As a multi-focal area project concerned with both GHG emissions and biodiversity conservation in peatlands, the project could have had a much more significant focus on

<sup>&</sup>lt;sup>16</sup> See Hooijer, A., Silvius, M., Wösten, H. and Page, S. 2006. PEAT-CO2, Assessment of CO2 emissions from drained peatlands in SE Asia. Delft Hydraulics report Q3943 (2006).

assessing and monitoring biodiversity in degraded peatlands at the demonstration site level, and in documenting potential biodiversity impacts. As discussed in Section IV.A.iii on the OP12 approach in project design, the focus of the project is well-suited to the generation of both climate change and biodiversity benefits. It is likely that biodiversity benefits were generated from the restoration activities or at least have the potential to be generated from future scaledup activities, but there was little focus within the project on analyzing or documenting biodiversity benefits. The GPA includes a chapter on biodiversity in peatlands, but in terms of actual on the ground activities, biodiversity conservation was left as a side benefit of peatland restoration for the sake of carbon sequestration, rather than a second primary focus of the demonstration activities. Admittedly, this may have been due to the generally higher level of political traction of climate change issues relative to biodiversity conservation issues. Further analysis would be helpful, as in some cases there are trade-offs between biodiversity benefits and peatland restoration – for example, in Central Kalimantan, some species that are not normally present in peat forests, such as kingfishers, have colonized degraded peatland areas.

# F.Impact-level Results and Global Environmental Benefits

154. For the GEF biodiversity focal area project impacts are defined as documented changes in environmental status of species, ecosystems or genetic biodiversity resources. For climate change, impact level results are reduced or avoided greenhouse gas emissions. Global Environmental Benefits have not been explicitly defined in either the biodiversity or climate change focal areas, but are generally considered to involve sustained impact level results of a certain scale or significance.

155. The project focused on improving the enabling environment through increased awareness, capacity, and improved knowledge and information regarding the environmental importance and status of peatlands. The project was not primarily targeted at generating direct impact-level results; the project strategy and logical approach is such that the project's level of intervention is far upstream of impact level results and Global Environmental Benefits. As shown in the ROtI analysis in Annex 4, there is the potential for the project to have contributed to Global Environmental Benefits, but this will be over time and results will be diffuse. Previous GEF evaluations have identified adequate information flows as a key impact driver, <sup>17</sup> and the project made a significant positive contribution in this aspect.

156. At the demonstration site level there may have been some positive impact level results, but as mentioned above, environmental monitoring data was not available for this evaluation. In Russia it was noted that peat extraction was reduced in the project focus area. In China, according to project documentation, monitoring in the area has shown improved hydrological function and some improved status of biodiversity, such as nesting by black-necked cranes in restoration sites and improved vegetation coverage. The restoration activities in Indonesia demonstrated that rewetting peatland can increase carbon sequestration and reduce GHG emissions from the drying of peatland and associated fires. To achieve Global Environmental Benefits such activities would require massive scaling-up.

<sup>&</sup>lt;sup>17</sup> See, for example, GEF EO. 2009. "Fourth Overall Performance Study of the GEF," Washington, DC: GEF Evaluation Office.

# VII. Main Lessons Learned and Recommendations

# A. Lessons from the Experience of Integrated Management of Peatlands Project

157. <u>Lesson</u>: A positive lesson is that a project of modest size and scope, with a broad focus, can achieve meaningful results in raising global awareness of a key issue. By leveraging the efforts of many highly qualified technical individuals the project was able to produce a substantive valuable output in the GPA. This, along with the project's outreach and awareness raising efforts, has raised the level of awareness about the importance of peatlands in international and national policy realms. Similar projects in the future could learn from the project's example of engaging and focusing the efforts of a large number of technical experts on a single critical issue.

158. <u>Lesson:</u> There are multiple potential lessons related to the project management and implementation arrangements, but these can be distilled into one key lesson: when it becomes clear that there are problems related to project management, these must be adequately addressed as early as possible in a comprehensive manner and through collaboration between implementing and executing agencies. In the case of the Integrated Peatlands Management project, potential and real issues related to project management and oversight were identified in the early stages of the project, but these were not dealt with, and lingered through the project's lifetime. As stated in the project's terminal report, "On reflection, a more substantive review of the project's administrative processes in association with UNEP staff should have been undertaken early on once these problems became clear."

159. <u>Lesson:</u> Broad, decentralized global projects can have high transaction costs, and require appropriate administrative arrangements to ensure adequate communication and management. The Integrated Peatlands Management project had six technical components: two at the global level, one at the regional level, and three at the national level that also involved local level activities. The project stretched from the local to the global, from small rural communities in remote locations in Kalimantan and the Tibetan Plateau to the highest levels of international environmental law and policy. The project's institutional arrangements, with one administrative head and one technical lead, proved problematic in this context, as there was insufficient information flow from the ground level of the technical components to the central level for reporting and other purposes. In this sense it would have been helpful if project management functions had been consolidated in one organization, with hierarchical responsibility to a single individual.

160. <u>Lesson:</u> Steering committees can be useful in providing oversight and technical guidance for project implementation, but the utility of such structures must be balanced against the cost of operationalizing them. The Integrated Peatlands Management project steering committee was highly valuable, and was able to remain cost effective by partially leveraging related international gatherings as opportunities to convene steering committee members. The constitution of a steering committee can also be structured to involve key stakeholders and constituencies, which can increase cost-effectiveness. For example, in the case of this project, having a steering committee member from the CBD Secretariat proved highly useful in accessing opportunities to provide input to the parties of the CBD.

161. <u>Lesson:</u> On the technical side, one of the lessons of the project was that achieving local, ground-level results could only be accomplished by cooperating with local communities. Conflict and adversaries will be created by not effectively working with local stakeholders. As one project implementer put it, "Your forest will not be replanted, it will be put on fire." The project was successful in working with local community members, but, in the Central Kalimantan site at least, the scale of the demonstration efforts limited the project's ability to fully engage a meaningful number of individuals over an extended period of time.

162. <u>Lesson:</u> Demonstration efforts are valuable for identifying and developing environmental management techniques, but to achieve results of any significant scale requires a sustained source of funding to support ongoing management. In the case of the Central Kalimantan demonstration site, resources were limited and after the end of the project the canal-blocking and restoration infrastructure installed by the project has deteriorated, and will not be sustained. The new KFCP initiative is focusing on the same geographic area but it is a much larger program and is starting approximately three years after the completion of project activities. Thus far the KFCP project has not attempted to build directly on the previous demonstration efforts by rehabilitating and maintaining the previous infrastructure. Ultimately, large-scale restoration efforts will need a sustained source of financing, either from the government or new innovative mechanisms such as carbon financing.

# B. Recommendations for Future Actions

163. Since this is a terminal evaluation, and an ex-post evaluation, there is little scope for recommendations. The few recommendations below are considered to still be relevant with respect to ongoing aspects of this project, and potential similar projects to be developed.

164. **<u>Recommendation</u>**: The GPA is an important and comprehensive resource that is likely to remain relevant for years to come. WI and GEC should continue to actively disseminate this document through all available channels, and should ensure that it remains easily accessible in electronic form, available for download, for at least five more years, or until experience indicates it is no longer in demand. Download activity of the report from GEC's website should be monitored to assess reach and demand over time. [For WI and GEC]

165. <u>**Recommendation:**</u> The project made good progress in awareness raising and capacity development on peatland management issues at the regional and national levels, although there is always a need for more investment in this area. However, perhaps an even greater need is for increased capacity development at the community and local government level on climate change issues in relation to peatlands. The executing organizations of this project and UNEP should within the next two years examine the potential to develop a community-support program to increase understanding and awareness in Sumatra and Kalimantan about the role peatlands play in climate change, and the potential carbon market that is developing. [For WI, GEC and UNEP]

166. <u>**Recommendation:**</u> Based on the lessons from this project, UNEP should avoid in all circumstances designing projects with institutional arrangements involving dual executing institutions. When there is more than one single point of ultimate responsibility for reporting and other management functions, there is the potential for inadvertent abdication of responsibility. *[For UNEP]* 

167. <u>**Recommendation:**</u> For a project of this size, redundant and excessive management and implementation arrangements should be avoided in future project designs. The original design of this project included two executing organizations combined into one "secretariat", a project steering committee, a technical advisory group, an outreach group, and implementation teams for each of the six technical components. This was excessive for a GEF MSP. For scientific or highly technical projects there is a tendency to have an external technical advisory body, but when the project implementation team includes individuals who are themselves international experts, such structures are redundant and unnecessary. [For UNEP]

168. <u>**Recommendation:**</u> All projects, even targeted research projects, should have adequate logframes with SMART indicators at the outcome and impact level. [For UNEP and GEF Secretariat]

Criterion	Evaluator's Summary Comments	Ratin g
A. Attainment of project objectives and results (overall rating) Sub criteria (below)	The project achieved excellent technical delivery, and was highly relevant in the context of global environmental issues. The inefficient project management arrangements fortunately did not cause problems in technical delivery thanks to the decentralized implementation approach.	S
A. 1. Effectiveness: overall likelihood of impact achievement / ROtI rating	From a technical perspective the project was successful, with some aspects considered highly satisfactory. All technical aspects of the project were completed, although some were delayed.	S / AC
A. 2. Relevance	The project was relevant at local, national, regional and international levels with respect to addressing critical issues and responding to strategic priorities and policies. The project was relevant to both the CBD and UNFCCC (as well as the Ramsar Convention) and to GEF policies.	HS
A. 3. Efficiency	Project results for the technical components were at or above anticipated levels relative to funds invested. Expenditures were in-line with international norms and standards. Project management was not efficiently carried out.	MS
B. Sustainability of Project outcomes (overall rating) Sub criteria (below)	The overall rating on sustainability is equal to the lowest rating of the four components of sustainability, listed below.	L
B. 1. Financial	Project results in awareness building, capacity development, and knowledge generation do not need additional resources to be sustained. At the regional level a new GEF-funded FSP is carrying the APMS forward. At the country/site level, new initiatives and projects are being implemented with much greater resources than those invested under the current project.	L
B. 2. Socio-political	There are no significant socio-political risks to sustainability.	L
B. 3. Institutional	The influence of institutional and governance factors on sustainability will only	L
framework and governance	be known over an extended period of time, but there are currently preliminary positive indications at the global, regional and national levels.	
B. 4. Environmental	Environmental sustainability is not directly relevant to the project as it primarily focused on improving the enabling environment. At the demonstration site level sustainability is likely as other projects and initiatives continue peatland management and restoration activities in the areas targeted by the project.	N/A / L
C. Catalytic Role	The project produced recommendations regarding the management of peatlands, and identified good practices for peatland restoration, which were then disseminated through various means. Equally importantly, the project contributed to the leveraging of significant additional funding to address peatland restoration, and the GEF's strategic priorities for GEF-5 in the climate change focal area specifically include peatlands.	HS

# C. Project Ratings

Criterion	Evaluator's Summary Comments					
involvement	levels.					
E. Country ownership / drivenness	As a global targeted research project, the level of country drivenness was not inherently high. The project concept did originate to some extent based on ASEAN nations' concern about peat fires and regional haze. By the end of the project many of the countries involved were actively engaged in and concerned with peatland management issues. At the global level, CBD acknowledgement of the project results can be considered an indicator of ownership by the parties to the convention.	MS				
F. Achievement of	All significant activities were completed and outputs produced, although there	MS				
outputs and activities	were delays for some key outputs.					
G. Preparation and readiness	The project design was unsatisfactory in multiple areas: There was poor financial planning/budgeting, the institutional arrangements were misguided, the scale of planned components and activities was extremely ambitious relative to the size of the budget, major monitoring and evaluation elements were poorly developed, and a long approval and design process led to need to change aspects of the design once the project started.	U				
H. Implementation approach	The overall decentralized approach of implementing the components was a positive aspect, but the project management institutional arrangements were unsatisfactory. This, combined with inadequate IA support, led to chronic project management issues at the central node.	MU				
I. Financial planning (and management)	Financial planning for the scale of the project relative to the size of the budget, and in relation to the institutional arrangements and project management was unsatisfactory, as well as budgeting for monitoring and evaluation. Financial management during implementation had minor issues requiring budget revisions, and there was at least one instance of a delayed six-month cash advance. Financial reporting (tied to progress reporting) was consistently delayed. Audits were satisfactorily conducted and no inappropriate expenditures were noted.	MU				
J. Monitoring and Evaluation (overall rating) Sub criteria (below)	All aspects of monitoring and evaluation were at least partially unsatisfactory. It should be kept in mind that the project was designed long-before the current GEF M&E policies, standards and norms were implemented.	U				
E. 1. M&E Design	The project did not have an adequate M&E plan, including lacking a logframe with outcome and impact level indicators. The institutional arrangements for progress reporting were also problematic.	U				
E. 2. M&E Plan Implementation (use for adaptive management)	In general the required minimum M&E elements were completed, though with frequent significant delays. Once submitted, reports and other monitoring documents were generally comprehensive.	MU				
E. 3. Budgeting and Funding for M&E activities	The project did not have a dedicated M&E budget, which caused problems for key M&E activities such as consistent and timely progress reporting, and the terminal evaluation.	U				
K. UNEP Supervision and backstopping	For a majority of the project implementation period there was a poor working relationship between the IA and the EAs. Turnover in the project task manager position contributed to the oversight issues. The IA reporting requirements during the first half of the project were unsatisfactory. Communication was sometimes problematic, as was timeliness of follow-up on delayed reporting, and the project was allowed to operate for 12 months without filing formal extension paperwork. Oversight improved towards the end of the project.	MU				

# **VIII. List of Annexes**

Annex 1: Evaluation Terms of Reference

Annex 2: Acronyms

Annex 3: GEF Operational Principles

Annex 4: Review of Outcomes to Impacts Analysis

Annex 5: Evaluation Interview Guide

Annex 6: List of Persons Contacted

Annex 7: Evaluation Field Visit Schedule

Annex 8: Documents Cited and Reviewed

Annex 9: Evaluator Curriculum Vitae

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# A. Annex 1: Evaluation Terms of Reference

The evaluation Terms of Reference have been edited and annexes have not been included due to space considerations.

#### **TERMS OF REFERENCE**

#### Terminal Evaluation of the UNEP GEF project GF/1030-03-01 (4650) "Integrated Management of Peatlands for Biodiversity and Climate Change: The Potential of Managing Peatlands for Carbon Accumulation while Protecting Biodiversity"

#### 1. Objective and Scope of the Evaluation

The objective of this terminal evaluation is to examine the extent and magnitude of any project impacts to date and determine the likelihood of future impacts. The evaluation will also assess project performance and the implementation of planned project activities and planned outputs against actual results. The evaluation will focus on the following main questions:

- 1. Did the project 'improve understanding of the role of peatlands as carbon deposits in developing countries" among key target audiences (international conventions and initiatives, national level policy-makers, regional and local policy-makers, resource managers and practitioners)
- 2. Did the outputs of the project articulate options and recommendations for managing peatlands as carbon deposits while protecting biodiversity? Were these options and recommendations used? If so by whom?
- 3. To what extent did the project outputs produced have the weight of scientific authority and credibility necessary to influence policy makers and other key audiences?

#### 2. Methods

This terminal evaluation will be conducted as an in-depth evaluation using a participatory mixedmethods approach, during which the UNEP/DGEF Task Manager, key representatives of the executing agencies and other relevant staff are kept informed and consulted throughout the evaluation. The consultant will liaise with the UNEP/EOU and the UNEP/DGEF on any logistic and/or methodological issues to properly conduct the review in as independent a way as possible, given the circumstances and resources offered. The draft report will be circulated to UNEP/DGEF Task Manager, key representatives of the executing agencies and the UNEP/EOU. Any comments or responses to the draft report will be sent to UNEP / EOU for collation and the consultant will be advised of any necessary or suggested revisions.

The findings of the evaluation will be based on multiple approaches:

- 1. A desk review of project documents including, but not limited to:
  - (a) The project documents, outputs, monitoring reports (such as progress and financial reports to UNEP and GEF annual Project Implementation Review reports) and relevant correspondence.
  - (b) Notes from the Steering Group meetings.
  - (c) Other project-related material produced by the project staff or partners.
  - (d) Relevant material published on the project web-site.
- 2. Interviews with project management and technical support.

- 3. Interviews and telephone interviews with intended users for the project outputs and other stakeholders involved with this project, including in the participating countries and international bodies. The Consultant shall determine whether to seek additional information and opinions from representatives of donor agencies and other organisations. As appropriate, these interviews could be combined with an email questionnaire, online survey, or other electronic communication.
- 4. Interviews with the UNEP/DGEF project task manager and Fund Management Officer, and other relevant staff in UNEP dealing with Biodiversity and Climate Change-related activities as necessary. The Consultant shall also gain broader perspectives from discussions with relevant GEF Secretariat staff.
- 5. Field visits<sup>18</sup> to project staff and target audiences. The evaluator will make field visits to Wetlands International in Malaysia and to key project personnel and collaborators in Indonesia. A visit will also be made to project partners in China or Russia and key audiences for the project's outputs will be canvassed for their opinions in relation the project in these countries.

#### Key Evaluation principles.

In attempting to evaluate any outcomes and impacts that the project may have achieved, evaluators should remember that the project's performance should be assessed by considering the difference between the answers to two simple questions "*what happened?*" and "*what would have happened anyway?*". These questions imply that there should be consideration of the baseline conditions and trends in relation to the intended project outcomes and impacts. In addition it implies that there should be plausible evidence to **attribute** such outcomes and impacts **to the actions of the project**.

Sometimes, adequate information on baseline conditions and trends is lacking. In such cases this should be clearly highlighted by the evaluator, along with any simplifying assumptions that were taken to enable the evaluator to make informed judgements about project performance.

#### 3. Project Ratings

The success of project implementation will be rated on a scale from 'highly unsatisfactory' to 'highly satisfactory'. In particular the evaluation shall **assess and rate** the project with respect to the eleven categories defined below<sup>19</sup>.

It should be noted that many of the evaluation parameters are interrelated. For example, the 'achievement of objectives and planned results' is closely linked to the issue of 'sustainability'. Sustainability is understood as the probability of continued long-term project-derived outcomes and impacts and is, in turn, linked to the issues of 'catalytic effects / replication' and, often, 'country ownership' and 'stakeholder participation'.

#### A. Attainment of objectives and planned results:

The evaluation should assess the extent to which the project's major relevant objectives were effectively and efficiently achieved or are expected to be achieved and their relevance.

<sup>&</sup>lt;sup>18</sup> Evaluators should make a brief courtesy call to GEF Country Focal points during field visits if at all possible.

<sup>&</sup>lt;sup>19</sup> However, the views and comments expressed by the evaluator need not be restricted to these items.

- *Effectiveness:* Evaluate the **overall likelihood of impact achievement**, taking into account the "achievement indicators", the achievement of outcomes and the progress made towards impacts. UNEP's Evaluation Office advocates the use of the <u>Review of Outcomes to Impacts (ROtI)</u> method (described in Annex 7) to establish this rating.
- *Relevance*: In retrospect, were the project's outcomes consistent with the focal areas/operational program strategies? Ascertain the nature and significance of the contribution of the project outcomes to the CBD and the UNFCCC and the wider portfolio of the GEF.
- *Efficiency*: Was the project cost effective? Was the project the least cost option? Was the project implementation delayed and if it was, then did that affect cost-effectiveness? Assess the contribution of cash and in-kind co-financing, and any additional resources leveraged by the project, to the project's achievements. Did the project build on earlier initiatives; did it make effective use of available scientific and / or technical information? Wherever possible, the evaluator should also compare the cost-time vs. outcomes relationship of the project with that of other similar projects.

#### B. Sustainability:

Sustainability is understood as the probability of continued long-term project-derived outcomes and impacts after the GEF project funding ends. The evaluation will identify and assess the key conditions or factors that are likely to contribute or undermine the persistence of benefits after the project ends. Some of these factors might be outcomes of the project, e.g. stronger institutional capacities or better informed decision-making. Other factors will include contextual circumstances or developments that are not outcomes of the project but that are relevant to the sustainability of outcomes. The evaluation should ascertain to what extent follow-up work has been initiated and how project outcomes will be sustained and enhanced over time. <u>Application</u> <u>of the ROtI method</u> described in Annex 7 will also assist in the evaluation of sustainability.

- Five aspects of sustainability should be addressed: financial, socio-political, institutional frameworks and governance, environmental (if applicable). The following questions provide guidance on the assessment of these aspects:
- *Financial resources.* Are there any financial risks that may jeopardize sustenance of project outcomes and onward progress towards impact? What is the likelihood that financial and economic resources will not be available once the GEF assistance ends (resources can be from multiple sources, such as the public and private sectors, income generating activities, and trends that may indicate that it is likely that in future there will be adequate financial resources for sustaining project's outcomes)? To what extent are the outcomes and eventual impact of the project dependent on continued financial support?
- Socio-political: Are there any social or political risks that may jeopardize sustenance of project outcomes and onward progress towards impacts? What is the risk that the level of stakeholder ownership will be insufficient to allow for the project outcomes to be sustained? Do the various key stakeholders see that it is in their interest that the project benefits continue to flow? Is there sufficient public / stakeholder awareness in support of the long term objectives of the project?
- *Institutional framework and governance.* To what extent is the sustenance of the outcomes and onward progress towards impacts dependent on issues relating to institutional frameworks and governance? What is the likelihood that institutional and

technical achievements, legal frameworks, policies and governance structures and processes will allow for, the project outcomes/benefits to be sustained? While responding to these questions consider if the required systems for accountability and transparency and the required technical know-how are in place.

• *Environmental.* Are there any environmental risks that can undermine the future flow of project environmental benefits? The TE should assess whether certain activities in the project area will pose a threat to the sustainability of the project outcomes. For example; construction of dam in a protected area could inundate a sizable area and thereby neutralize the biodiversity-related gains made by the project; or, a newly established pulp mill might jeopardise the viability of nearby protected forest areas by increasing logging pressures; or a vector control intervention may be made less effective by changes in climate and consequent alterations to the incidence and distribution of malarial mosquitoes. Would these risks apply in other contexts where the project may be replicated?

#### C. Catalytic Role and Replication

The catalytic role of the GEF is embodied in its approach of supporting the creation an enabling environment, investing in activities which are innovative and show how new approaches and market changes can work, and supporting activities that upscale new approaches to a national (or regional) level to sustainably achieve global environmental benefits.

In general this catalytic approach can be separated into are three broad categories of GEF activities: (1) **"foundational"** and enabling activities, focusing on policy, regulatory frameworks, and national priority setting and relevant capacity (2) **demonstration** activities,

The three categories approach combines all the elements that have been shown to catalyze results in international cooperation. Evaluations in the bilateral and multilateral aid community have shown time and again that activities at the micro level of skills transfer-piloting new technologies and demonstrating new approaches-will fail if these activities are not supported at the institutional or market level as well. Evaluations have also consistently shown that institutional capacity development or market interventions on a larger scale will fail if governmental laws, regulatory frameworks, and policies are not in place to support and sustain these improvements. And they show that demonstration, innovation and market barrier removal do not work if there is no follow up through investment or scaling up of financial means.

which focus on demonstration, capacity development, innovation, and market barrier removal; and (3) **investment** activities, full-size projects with high rates of cofunding, catalyzing investments or implementing a new strategic approach at the national level.

- In this context the evaluation should assess the catalytic role played by this project by consideration of the following questions:
- INCENTIVES: To what extent have the project activities provided incentives (socioeconomic / market based) to contribute to catalyzing changes in stakeholder behaviours?
- INSTITUTIONAL CHANGE: To what extent have the project activities contributed to changing institutional behaviors?
- POLICY CHANGE: To what extent have project activities contributed to policy changes (and implementation of policy)?
- CATALYTIC FINANCING: To what extent did the project contribute to sustained follow-on financing from Government and / or other donors? (this is different from cofinancing)

 PROJECT CHAMPIONS: To what extent have changes (listed above) been catalyzed by particular individuals or institutions (without which the project would not have achieved results)?

(Note: the ROtI analysis should contribute useful information to address these questions)

Replication approach, in the context of GEF projects, is defined as lessons and experiences coming out of the project that are replicated or scaled up in the design and implementation of other projects. Replication can have two aspects, replication proper (lessons and experiences are replicated in different geographic area) or scaling up (lessons and experiences are replicated within the same geographic area but funded by other sources).

Is the project suitable for replication? If so, has the project approach been replicated? If no effects are identified, the evaluation will describe the strategy / approach adopted by the projected to promote replication effects.

#### **D.** Stakeholder participation / public awareness:

This consists of three related and often overlapping processes: information dissemination, consultation, and "stakeholder" participation. Stakeholders are the individuals, groups, institutions, or other bodies that have an interest or stake in the outcome of the GEF- financed project. The term also applies to those potentially adversely affected by a project. The evaluation will specifically:

- Assess the mechanisms put in place by the project for identification and engagement of stakeholders in each participating country and establish, in consultation with the stakeholders, whether this mechanism was successful, and identify its strengths and weaknesses.
- Assess the degree and effectiveness of collaboration/interactions between the various project partners and institutions during the course of implementation of the project.
- Assess the degree and effectiveness of any various public awareness activities that were undertaken during the course of implementation of the project.

#### E. Country ownership / driven-ness:

This is the relevance of the project to national development and environmental agendas, recipient country commitment, and regional and international agreements. The evaluation will:

- Assess the level of country ownership. Specifically, the evaluator should assess whether the project was effective in providing and communicating information on peatlands that catalyzed action in participating countries to improve decisions relating to the conservation and management of peatlands in each country.
- Assess the level of country commitment to the generation and use of research related to carbon storage and biodiversity conservation during and after the project, including in regional and international fora.

#### F. Achievement of outputs and activities:

- Delivered outputs: Assessment of the project's success in producing each of the programmed outputs, both in quantity and quality as well as usefulness and timeliness.
- Assess the soundness and effectiveness of the methodologies used for developing the technical documents and related management options in the participating countries

• Assess to what extent the project outputs produced have the weight of scientific authority / credibility, necessary to influence policy and decision-makers, particularly at the national level.

### G. Preparation and Readiness

Were the project's objectives and components clear, practicable and feasible within its timeframe? Were the capacities of executing institution and counterparts properly considered when the project was designed? Were lessons from other relevant projects properly incorporated in the project design? Were the partnership arrangements properly identified and the roles and responsibilities negotiated prior to project implementation? Were counterpart resources (funding, staff, and facilities), enabling legislation, and adequate project management arrangements in place?

## H. Assessment monitoring and evaluation systems.

The evaluation shall include an assessment of the quality, application and effectiveness of project monitoring and evaluation plans and tools, including an assessment of risk management based on the assumptions and risks identified in the project document. The Terminal Evaluation will assess whether the project met the minimum requirements for 'project design of M&E' and 'the application of the Project M&E plan' (see minimum requirements 1&2 in Annex 4). GEF projects must budget adequately for execution of the M&E plan, and provide adequate resources during implementation of the M&E plan. Project managers are also expected to use the information generated by the M&E system during project implementation to adapt and improve the project.

#### I. Implementation approach:

This includes an analysis of the project's management framework, adaptation to changing conditions (adaptive management), partnerships in implementation arrangements, changes in project design, and overall project management. The evaluation will:

- Ascertain to what extent the project implementation mechanisms outlined in the project document have been closely followed. In particular, assess the role of the various committees established and whether the project document was clear and realistic to enable effective and efficient implementation, whether the project was executed according to the plan and how well the management was able to adapt to changes during the life of the project to enable the implementation of the project.
- Assess the extent to which the project responded the mid term review / evaluation (if any).
- Evaluate the effectiveness and efficiency and adaptability of project management and the supervision of project activities / project execution arrangements at all levels (1) policy decisions: Steering Group; (2) day to day project management in each of the country executing agencies.
- Identify administrative, operational and/or technical problems and constraints that influenced the effective implementation of the project.

# J. M&E during project implementation

• *M&E design.* Projects should have sound M&E plans to monitor results and track progress towards achieving project objectives. An M&E plan should include a baseline (including data, methodology, etc.), SMART indicators (see Annex 4) and data analysis

systems, and evaluation studies at specific times to assess results. The time frame for various M&E activities and standards for outputs should have been specified.

The evaluator should use the following questions to help assess the M&E design aspects:

SMART-ness of Indicators

- Are there specific indicators in the log frame for each of the project objectives and outcomes?
- Are the indicators relevant to the objectives and outcomes?
- Are the indicators for the objectives and outcomes sufficient?
- Are the indicators quantifiable?

Adequacy of Baseline Information

- Is there baseline information?
- Has the methodology for the baseline data collection been explained?
- Is desired level of achievement for indicators based on a reasoned estimate of baseline? Arrangements for Monitoring of Implementation
- Has a budget been allocated for M&E activities?
- Have the responsibility centers for M&E activities been clearly defined?
- Has the time frame for M&E activities been specified?

Arrangements for Evaluation

- Have specific targets been specified for project outputs?
- Has the desired level of achievement been specified for all Indicators of Objectives and Outcomes?
- *M&E plan implementation*. A Terminal Evaluation should verify that:
- an M&E system was in place and facilitated timely tracking of results and progress towards projects objectives throughout the project implementation period (perhaps through use of a logframe or similar);
- annual project reports and Progress Implementation Review (PIR) reports were complete, accurate and with well justified ratings;
- that the information provided by the M&E system was used during the project to improve project performance and to adapt to changing needs;
- and that projects had an M&E system in place with proper training for parties responsible for M&E activities.
- *Budgeting and Funding for M&E activities.* The terminal evaluation should determine whether support for M&E was budgeted adequately and was funded in a timely fashion during implementation.

#### K. Financial Planning

Evaluation of financial planning requires assessment of the quality and effectiveness of financial planning and control of financial resources throughout the project's lifetime. Evaluation includes actual project costs by activities compared to budget (variances), financial management (including disbursement issues), and co- financing. The evaluation should:

• Assess the strength and utility of financial controls, including reporting, and planning to allow the project management to make informed decisions regarding the budget and

allow for a proper and timely flow of funds for the payment of satisfactory project deliverables.

- Present the major findings from the financial audit if one has been conducted.
- Identify and verify the sources of co- financing as well as leveraged and associated financing (in co-operation with the IA and EA).
- Assess whether the project has applied appropriate standards of due diligence in the management of funds and financial audits.
- The evaluation should also include a breakdown of final actual costs and co-financing for the project prepared in consultation with the relevant UNEP Fund Management Officer of the project (table attached in Annex 1 Co-financing and leveraged resources).

#### L. UNEP Supervision and Backstopping

The purpose of supervision is to work with the executing agency in identifying and dealing with problems which arise during implementation of the project itself. Such problems may be related to project management but may also involve technical/substantive issues in which UNEP has a major contribution to make. The evaluator should assess the effectiveness of supervision and administrative and financial support provided by UNEP/DGEF including:

- (i) the adequacy of project supervision plans, inputs and processes;
- (ii) the emphasis given to outcome monitoring (results-based project management);
- (iii) the realism / candor of project reporting and rating (i.e. are PIR ratings an accurate reflection of the project realities and risks);
- (iv) the quality of documentation of project supervision activities; and
- (v) financial, administrative and other fiduciary aspects of project implementation supervision.

In summary, accountability and implementation support through technical assistance and problem solving are the main elements of project supervision (Annex 6).

The *ratings will be presented in the form of a table*. Each of the eleven categories should be rated separately with **brief justifications** based on the findings of the main analysis. An overall rating for the project should also be given. The following rating system is to be applied:

- HS = Highly Satisfactory
- S = Satisfactory
- MS = Moderately Satisfactory
- MU = Moderately Unsatisfactory
- U = Unsatisfactory
- HU = Highly Unsatisfactory

#### 4. Evaluation Report Format and Review Procedures

The report should be brief, to the point and easy to understand. It must explain; the purpose of the evaluation, exactly what was evaluated and the methods used. The report must highlight any methodological limitations, identify key concerns and present evidence-based findings, consequent conclusions, recommendations and lessons. The report should be presented in a way that makes the information accessible and comprehensible and include an executive summary that encapsulates the essence of the information contained in the report to facilitate dissemination and distillation of lessons.

The evaluation will rate the overall implementation success of the project and provide individual ratings of the eleven implementation aspects as described in Section 1 of this TOR. *The ratings will be presented in the format of a table* with brief justifications based on the findings of the main analysis.

Evidence, findings, conclusions and recommendations should be presented in a complete and balanced manner. Any dissident views in response to evaluation findings will be appended in an annex. The evaluation report shall be written in English, be of no more than 50 pages (excluding annexes), use numbered paragraphs and include:

- i) An **executive summary** (no more than 3 pages) providing a brief overview of the main conclusions and recommendations of the evaluation;
- ii) **Introduction and background** giving a brief overview of the evaluated project, for example, the objective and status of activities; The GEF Monitoring and Evaluation Policy, 2006, requires that a TE report will provide summary information on when the evaluation took place; places visited; who was involved; the key questions; and, the methodology.
- iii) **Scope, objective and methods** presenting the evaluation's purpose, the evaluation criteria used and questions to be addressed;
- iv) **Project Performance and Impact** providing *factual evidence* relevant to the questions asked by the evaluator and interpretations of such evidence. This is the main substantive section of the report. The evaluator should provide a commentary and anlaysis on all eleven evaluation aspects (A K above).
- v) **Conclusions and rating** of project implementation success giving the evaluator's concluding assessments and ratings of the project against given evaluation criteria and standards of performance. The conclusions should provide answers to questions about whether the project is considered good or bad, and whether the results are considered positive or negative. The ratings should be provided with a brief narrative comment in a table (see Annex 1);
- vi) Lessons (to be) learned presenting general conclusions from the standpoint of the design and implementation of the project, based on good practices and successes or problems and mistakes. Lessons should have the potential for wider application and use. All lessons should 'stand alone' and should:
  - Briefly describe the context from which they are derived
  - State or imply some prescriptive action;
  - Specify the contexts in which they may be applied (if possible, who when and where)
- vii) **Recommendations** suggesting *actionable* proposals for improvement of the current project. In general, Terminal Evaluations are likely to have very few (perhaps two or three) actionable recommendations.

*Prior to each recommendation*, the issue(s) or problem(s) to be addressed by the recommendation should be clearly stated.

A high quality recommendation is an actionable proposal that is:

1. Feasible to implement within the timeframe and resources available

2. Commensurate with the available capacities of project team and partners

- 3. Specific in terms of who would do what and when
- 4. Contains results-based language (i.e. a measurable performance target)

5. Includes a trade-off analysis, when its implementation may require utilizing significant resources that would otherwise be used for other project purposes.

- viii) Annexes may include additional material deemed relevant by the evaluator but must include:
  - 1. The Evaluation Terms of Reference,
  - 2. A list of interviewees, and evaluation timeline
  - 3. A list of documents reviewed / consulted
  - 4. Summary co-finance information and a statement of project expenditure by activity
  - 5. Details of the project's 'impact pathways' and the 'ROtI' analysis
  - 6. The expertise of the evaluation team. (brief CV).

TE reports will also include any formal response / comments from the project management team and/or the country focal point regarding the evaluation findings or conclusions as an annex to the report, however, such will be appended to the report by UNEP Evaluation Office.

Examples of UNEP GEF Terminal Evaluation Reports are available at <u>www.unep.org/eou</u>

#### **Review of the Draft Evaluation Report**

Draft reports shall be submitted to UNEP Evaluation Office. The Chief of Evaluation Office will share the report with the corresponding Programme or Project Officer and his or her supervisor for initial review and consultation. The DGEF staff and senior Executing Agency staff are allowed to comment on the draft evaluation report. They may provide feedback on any errors of fact and may highlight the significance of such errors in any conclusions. Where, possible, a consultation is held between the evaluator, Evaluation Office Staff, the Task Manager and key members of the project execution team. The consultation seeks feedback on the proposed recommendations and lessons. UNEP Evaluation Office collates all review comments and provides them to the evaluator(s) for their consideration in preparing the final version of the report.

#### 5. Submission of Final Terminal Evaluation Reports.

The final report shall be written in English and submitted in electronic form in MS Word format and should be sent directly to:

Segbedzi Norgbey, Chief, UNEP Evaluation Office P.O. Box 30552-00100 Nairobi, Kenya Tel.: (254-20) 7623387 Fax: (254-20) 7623158 Email: <u>segbedzi.norgbey@unep.org</u>

The Chief of Evaluation will share the report with the following individuals:

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The final evaluation report will be published on the Evaluation Office web-site <u>www.unep.org/eou</u> and may be printed in hard copy. Subsequently, the report will be sent to the GEF Office of Evaluation for their review, appraisal and inclusion on the GEF website.

# B. Annex 2: Acronyms

APMI	ASEAN Peatland Management Initiative
APMS	ASEAN Peatland Management Strategy
ASEAN	Association of Southeast Asian Nations
CBD	Convention on Biological Diversity
CIDA	Canadian International Development Agency
CIFOR	Center for International Forestry Research
COP	Conference of Parties
EA	Executing Agency
FSP	Full-sized project
GEC	Global Environment Centre
GEF	Global Environment Facility
GHG	Greenhouse Gas
GPA	Global Peatlands Assessment
IA	Implementing Agency
IFAD	International Fund for Agricultural Development
IMCG	International Mire Conservation Group
KFCP	Kalimantan Forests and Climate Partnership
M&E	Monitoring and evaluation
MOU	Memorandum of Understanding
MSP	Medium-sized Project
NBSAP	National Biodiversity Strategy and Action Plan
NGO	Non-governmental Organization
OP12	Operational Program 12 (of the GEF)
PIR	Project Implementation Review
REDD	Reducing emissions from deforestation and forest degradation
ROtI	Review of Outcomes to Impacts
SBSTTA	Subsidiary Body on Scientific, Technical and Technological
Advice	
	(of the CBD)
SBSTA	Subsidiary Body for Scientific and Technological Advice
	(of the UNFCCC)
TORs	Terms of Reference
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
USD	United States dollars
WI	Wetlands International
WWF	World Wildlife Fund

# C. Annex 3: GEF Operational Principles

#### http://www.gefweb.org/public/opstrat/ch1.htm

#### TEN OPERATIONAL PRINCIPLES FOR DEVELOPMENT AND IMPLEMENTATION OF THE GEF'S WORK PROGRAM

1. For purposes of the financial mechanisms for the implementation of the Convention on Biological Diversity and the United Nations Framework Convention on Climate Change, the GEF will **function under the guidance of, and be accountable to, the Conference of the Parties** (COPs). For purposes of financing activities in the focal area of ozone layer depletion, GEF operational policies will be consistent with those of the Montreal Protocol on Substances that Deplete the Ozone Layer and its amendments.

2. The GEF will provide new, and additional, grant and concessional funding to meet the agreed **incremental costs** of measures to achieve agreed global environmental benefits.

3. The GEF will ensure the **cost-effectiveness** of its activities to maximize global environmental benefits.

4. The GEF will fund projects that are **country-driven** and based on national priorities designed to support sustainable development, as identified within the context of national programs.

5. The GEF will maintain sufficient **flexibility** to respond to changing circumstances, including evolving guidance of the Conference of the Parties and experience gained from monitoring and evaluation activities.

6. GEF projects will provide for **full disclosure** of all non-confidential information.

7. GEF projects will provide for consultation with, and **participation** as appropriate of, the beneficiaries and affected groups of people.

8. GEF projects will conform to the **eligibility** requirements set forth in paragraph 9 of the GEF Instrument.

9. In seeking to maximize global environmental benefits, the GEF will emphasize its **catalytic role** and leverage additional financing from other sources.

10. The GEF will ensure that its programs and projects are **monitored and evaluated** on a regular basis.

# D. Annex 4: Review of Outcomes to Impacts Analysis

#### Part 1. Project Summary and Ratings Explanation

1.A Project Summary
1.A.i. Project Objective(s)
According to the project document, the project's overall objective was "to assess the capacity of peatlands, to act as significant carbon stores and provide recommendations on how these areas could be managed to ensure this attribute is maintained. It will also help determine what management measures can help reduce the net emissions of GHGs from peatlands."
1.A.ii. Project Strategy / Components
The project document does not explicitly the strategic rationale for the design/structure of the project, and the project was overambitious.
The project had seven main components to achieve the objective and expected outcomes:
Component 1: Global Technical Component Component 2: Country Study in Russia Component 3: Country Study in Indonesia Component 4: Country Study in China Component 5: Regional Component for Southeast Asia Component 6: Global Outreach/Capacity Building and Linkage to Environmental Convention Deliberations and Actions Component 7: Project Coordination and Development of a Synthesis Report
In the later project PIRs two short-term outcomes were synthesized from the project document and included in a retrofitted logframe table. These were, "Improved understanding of management issues affecting peatlands in selected case study countries" and "Guidelines on management options or interventions to maintain peatlands' role in carbon storage."
<ul> <li>Long-term outcomes were explicitly identified in the project document:</li> <li>Information on the carbon storage estimates in selected sites of peatlands</li> <li>Adoption of better models for sustainable development and management of peatlands</li> <li>Continued maintenance and improved protection of peatlands</li> <li>Significant reduction in emissions through prevention of burning of peatlands</li> <li>Increased recognition of the importance of the sustainable management of peatlands and the relationship with climate change</li> <li>Increased number of projects in the GEF portfolio related to management of peatlands to buffer climate change and enhanced biodiversity benefits</li> <li>Sustainable livelihoods based on peatland management</li> </ul>

#### 1.B.Ratings Explanation

#### 1.B.i. Ratings Evidence

The project lacked adequate outcome and impact level indicators, baselines and targets.

The project PIRs and other documentation indicate that all major project activities and outputs were completed. Key project outputs achieved are the Global Peatlands Assessment (recognized by the CBD SBSTTA), the demonstration activities and reports for each of the country studies, and the ASEAN Peatland Management Strategy. 1.B.ii. Ratings Justification

Also see evidence presented throughout the terminal evaluation report.

The Integrated Peatlands Management project was a targeted research project, and had activities at local, national, regional and international levels. The project focused on improving the enabling environment through increased awareness, capacity, and improved knowledge and information regarding the environmental importance and status of peatlands. The project was not primarily targeted at generating direct impact-level results; the project strategy and logical approach is such that the project's level of intervention is far upstream of impact level results and Global Environmental Benefits.

The Global Environmental Benefits in the case of this project would be improved long-term status of peatlandsrelated biodiversity, and the reduction or avoidance of significant amounts of greenhouse gases from peatlands. This would be achieved through regular, ongoing policy decisions positively targeted for peatlands, and improved management on the ground of peatland ecosystems at a large scale. The "intermediate states" that the project was designed to influence are long-term goals, dependent on slow-moving international and national policy processes, and eventually leading to on-the-ground implementation.

There is the potential for the project to have contributed to the achievement of Global Environmental Benefits, but this will be over time and results will be diffuse. Previous GEF evaluations have identified adequate information flows as a key impact driver, and the project made a significant positive contribution in this aspect.

As discussed in the terminal evaluation report, the results achieved are expected to be sustained – each component of the project feeds into ongoing processes at international, regional and national levels, as appropriate, and financial resources to support the continuation of results were secured.

Project #, Title, IA, Type (FSP / MSP):	Integrated Management of Peatlands for Biodiversity and Climate Change – UNEP - MSP						
Outputs	<b>Outcomes</b> (Include status if not met)	Outcome Rating (A – D)	Intermediate States (Include status if not met)	IS Rating (A – D)	Impact	Rating (+)	Overall
Component 1: Global Technical Component: literature review on carbon accumulation in peatlands, assessment of peatland management practices, review of peatland restoration options, technical workshops, background and issues paper, technical support activities for other components	1. Improved state of knowledge and understanding on peatland management issues at international and national levels	A	1. NOT YET MET: Continuous and ongoing positive policy decisions at international and national levels with respect to peatland ecosystems, to benefit biodiversity and reduce and/or avoid greenhouse gas emissions	C	1. NOT YET MET: Reduced threats to and improved status of globally significant biodiversity in peatland ecosystems		AC
Component 2: Russia Country Study: literature review and data gap analysis on peatlands, carbon storage and biodiversity, report on results of other peatland projects, report on effectiveness of peatland management options, awareness and education activities and materials including national workshop Component 3: Indonesia Country Study: Assessment of the extent and status of peatlands in Indonesia (atlas), review of peatland status and management testing of	<ul> <li>2. Improved understanding and awareness at the national level of the importance of peatlands for biodiversity and climate change, of peatland ecosystem functioning, and of peatland management approaches</li> <li>2. Improved understanding and awareness at the national level of the importance of peatlands for biodiversity and climate change of peatland</li> </ul>		2. PARTIALLY MET: Ongoing improved management of peatlands ecosystems on the ground benefiting biodiversity and reducing or avoiding greenhouse gas emissions		2. NOT YET MET: Reduced or avoided greenhouse gas emissions to combat climate change		

#### Part 2. Review of Outcomes to Impacts Ratings Table (see ratings guidelines below)

demonstration activities	and of peatland				
in Supports and Control	management				
Kalimantan sitas					
Raimantan sites,	approacties				
publications					
documenting held site					
lessons and good					
practices, awareness and					
education activities and					
materials including					
posters, brochures,					
flyers, etc.					
Component 4: China	2. Improved				
Country Study:	understanding and				
literatures review	awareness at the				
summarizing key	national level of the				
information on status	importance of				
and distribution of	peatlands for				
peatlands and key	biodiversity and climate				
threats, identification of	change, of peatland				
knowledge gaps,	ecosystem functioning,				
national workshops to	and of peatland				
share information and	management				
experience on peatland	approaches				
management, national					
expert network testing					
of restoration					
demonstration activities					
at Rupergai field site					
reports documenting					
experience from field					
site education and					
awaronoss activitios and					
materials including					
nublications and					
workshops	2. June 1999 199	-			
Component 5: Southeast	3. Improved				
Asia Regional					
component: workshops	awareness at the				
to develop ASEAN	regional level of the				
Peatland Management	importance of				
Strategy, completed	peatlands for				
APMS document, study	biodiversity and climate				
tours, Peat-Portal	change, of peatland				
website and expert	ecosystem functioning,				
network, trainings on	and of peatland				
peatland management	management				
and fire management,	approaches; Improved				
small demonstration	policy framework to				
activities in Malaysia and	facilitate improved				
Viet Nam, education and	longer term				
awareness activities and	management through				
materials	national action plans				

Component 6: Global	1. Improved state of			
Outreach component:	knowledge and			
Global Peatlands	understanding on			
Assessment report,	peatland management			
technical support	issues at international			
missions to country	and national levels			
components,				
presentations and				
workshops at relevant				
international fora				
(meetings of				
international				
conventions, etc), inputs				
to relevant international				
conventions. education				
and awareness activities				
and materials including				
newsletter and global				
workshops				
Component 7: Project	1 Improved state of			
Coordination and	knowledge and			
Synthesis: Project	understanding on			
management and	neatland management			
monitoring reports and	issues at international			
documents steering	and national levels.			
committee meetings	Successful project			
technical support	implementation			
missions for country	implementation			
components synthesis				
report (in original project				
document – later moved				
to component 6)				
to component of	Pating justification	Pating justification	Pating	
	summary	summary	iustification	
	Summary	Summary	summary	
			ícee	
	EVALUATION REPORT			
			REPORT	
#### **Desk Review of Outcomes to Impacts Ratings Guidelines**

**Outputs** are such concrete things as training courses held, numbers of persons trained, studies conducted, networks established, websites developed, and many others. Outputs reflect where and for what project funds were used. These are not rated, since they do not in themselves represent progress towards project objectives.

**Outcomes**, on the other hand, are the first level of intended results stemming from the outputs. Not the number of persons trained; but how many persons who then demonstrated that they had gained the intended knowledge or skills. Not a study conducted; but one that could change the evolution or development of the project. Not a network of NGOs established; but that the network showed potential for functioning as intended. A sound outcome might be genuinely improved strategic planning in sustainable land management stemming from workshops, training courses, and networking. Outcomes are the first step demonstrating progress towards a project's overall objectives. They can therefore be rated.

**Intermediate states**: The intermediate states indicate achievements that lead towards impact and Global Environmental Benefits, especially if the potential for scaling up is established.

**Impact:** Actual changes in environmental status, such as an increase in species population numbers, reduced rate of deforestation, improved water quality, or documented reductions in greenhouse gases

**Global Environmental Benefits:** Changes in environmental status that can be demonstrated to have global significance according to an accepted standard (such as one of the GEF Global Benefit Indices, Red List, etc. There may be cases where such significance does not yet have an accepted standard of measurement, in which case judgment will have to be used and explained).

Outcome Rating	Rating on Progress Toward Intermediate States	Impact Rating
D: The project's intended outcomes were not delivered.	D: The conditions necessary to achieve intermediate states are unlikely to be met.	Rating "+": Measurable impacts or threat reduction achieved and documented within the project life-span
C: The outcomes delivered were not designed to feed into a continuing process after GEF funding.	C: The conditions necessary to achieve intermediate states are in place, but are not likely to lead to impact.	
B: The outcomes delivered were designed to feed into a continuing process, but with no prior allocation of responsibilities after GEF funding.	B: The conditions necessary to achieve intermediate states are in place and have produced secondary outcomes or impacts, with moderate likelihood that they will progress toward the intended Global Environment Benefit.	
A: The outcomes delivered were designed to feed into a continuing process, with specific allocation of responsibilities after GEF funding.	A: The conditions necessary to achieve intermediate states are in place and have produced secondary outcomes or impacts, with high likelihood that they will progress toward the intended Global Environment Benefit.	



#### **ROtl Analysis Diagram in Graphic Format**



# E. Annex 5: Evaluation Interview Guide

<u>Overview:</u> The questions under each topic area are intended to assist in focusing discussion to ensure consistent topic coverage and to structure data collection, and are not intended as verbatim questions to be posed to interviewees. When using the interview guide, the interviewer should be sure to target questions at a level appropriate to the interviewee. The interview guide is one of multiple tools for gathering evaluative evidence, to complement evidence collected through document reviews and other data collection methods; in other words, the interview guide does not cover all evaluative questions relevant to the evaluation.

<u>Key</u> **Bold** = GEF Evaluation Criteria *Italic* = GEF Operational Principles

# I. PLANNING / PRE-IMPLEMENTATION

- A. Relevance
  - i. Did the project's objectives fit within the priorities of the local government and local communities?
  - ii. Did the project's objectives fit within national priorities?
- B. Incremental cost
  - i. Did the project create environmental benefits that would not have otherwise taken place?
  - ii. Does the project area represent an example of a globally significant environmental resource?
- C. Country-drivenness / Participation
  - i. How did the project concept originate?
  - ii. How did the project stakeholders contribute to the project development?
  - iii. Do local and national government stakeholders support the objectives of the project?
  - iv. Do the local communities support the objectives of the project?
  - v. Are the project objectives in conflict with any national level policies?
- D. Monitoring and Evaluation Plan / Design (M&E)
  - i. Were monitoring and reporting roles clearly defined?
  - ii. Was there either an environmental or socio-economic baseline of data collected before the project began?

# II. MANAGEMENT / OVERSIGHT

- A. Project management
  - i. What were the implementation arrangements?
  - ii. Was the management effective?
  - iii. Were workplans prepared as required to achieve the anticipated outputs on the required timeframes?

- iv. Did the project develop and leverage the necessary and appropriate partnerships with direct and tangential stakeholders?
- v. Were there any particular challenges with the management process?
- vi. If there was a steering or oversight body, did it meet as planned and provide the anticipated input and support to project management?
- vii. Were risks adequately assessed during implementation?
- viii. Did assumptions made during project design hold true?
- ix. Were assessed risks adequately dealt with?
- x. Was the level of communication and support from the implementing agency adequate and appropriate?
- B. Flexibility
  - i. Did the project have to undertake any adaptive management measures based on feedback received from the M&E process?
  - ii. Were there other ways in which the project demonstrated flexibility?
  - iii. Were there any challenges faced in this area?
- C. **Efficiency** (cost-effectiveness)
  - i. Was the project cost-effective?
  - ii. Were expenditures in line with international standards and norms?
  - iii. Was the project implementation delayed?
  - iv. If so, did that affect cost-effectiveness?
  - v. What was the contribution of cash and in-kind co-financing to project implementation?
  - vi. To what extent did the project leverage additional resources?
- D. Financial Management
  - i. Was the project financing (from the GEF and other partners) at the level foreseen in the project document?
  - ii. Where there any problems with disbursements between implementing and executing agencies?
  - iii. Were financial audits conducted with the regularity and rigor required by the implementing agency?
  - iv. Was financial reporting regularly completed at the required standards and level of detail?
  - v. Did the project face any particular financial challenges such as unforeseen tax liabilities, management costs, or currency devaluation?
- E. Co-financing *(catalytic role)* 
  - i. Was the in-kind co-financing received at the level anticipated in the project document?
  - ii. Was the cash co-financing received at the level anticipated in the project document?
  - iii. Did the project receive any additional unanticipated cash support after approval?
  - iv. Did the project receive any additional unanticipated in-kind support after approval?
- F. Monitoring and Evaluation (M&E)

- i. Project implementation M&E
  - a. Was the M&E plan adequate and implemented sufficiently to allow the project to recognize and address challenges?
  - b. Were any unplanned M&E measures undertaken to meet unforeseen shortcomings?
  - c. Was there a mid-term evaluation?
  - d. How were project reporting and monitoring tools used to support adaptive management?
- ii. Environmental and socio-economic monitoring
  - a. Did the project implement a monitoring system, or leverage a system already in place, for environmental monitoring?
  - b. What are the environmental or socio-economic monitoring mechanisms?
  - c. Have any community-based monitoring mechanisms been used?
  - d. Is there a long-term M&E component to track environmental changes?
  - e. If so, what provisions have been made to ensure this is carried out?
- E. Full disclosure
  - i. Did the project meet this requirement?
  - ii. Did the project face any challenges in this area?

# III. ACTIVITIES / IMPLEMENTATION

# A. Effectiveness

- i. How have the stated project objectives been met?
- ii. To what extent have the project objectives been met?
- iii. What were the key factors that contributed to project success or underachievement?
- iv. Can positive key factors be replicated in other situations, and could negative key factors have been anticipated?
- B. Stakeholder involvement and public awareness (participation)
  - i. What were the achievements in this area?
  - ii. What were the challenges in this area?
  - iii. How did stakeholder involvement and public awareness contribute to the achievement of project objectives?

# IV. RESULTS

- A. Outputs
  - i. Did the project achieve the planned outputs?
  - ii. Did the outputs contribute to the project outcomes and objectives?
- B. Outcomes
  - i. Were the anticipated outcomes achieved?
  - ii. Were the outcomes relevant to the planned project impacts?
- C. Impacts

- i. Was there a logical flow of inputs and activities to outputs, from outputs to outcomes, and then to impacts?
- ii. Did the project achieve its anticipated/planned impacts?
- iii. Why or why not?
- iv. If impacts were achieved, were they at a scale sufficient to be considered Global Environmental Benefits?
- v. If impacts or Global Environmental Benefits have not yet been achieved, are the conditions (enabling environment) in place so that they are likely to eventually be achieved?
- D. Replication strategy, and documented replication or scaling-up (catalytic role)
  - i. Did the project have a replication plan?
  - ii. Was the replication plan "passive" or "active"?
  - iii. Is there evidence that replication or scaling-up occurred within the country?
  - iv. Did replication or scaling-up occur in other countries?

# V. LESSONS LEARNED

- A. What were the key lessons learned in each project stage?
- B. In retrospect, would the project participants have done anything differently?

# VI. SUSTAINABILITY

- A. Financial
  - i. To what extent are the outcomes of the project dependent on continued financial support?
  - ii. What is the likelihood that any required financial resources will be available to sustain the project outcomes/benefits once the GEF assistance ends?
  - iii. Was the project successful in identifying and leveraging co-financing?
  - iv. What are the key financial risks to sustainability?
- B. Socio-Political
  - i. To what extent are the outcomes of the project dependent on socio-political factors?
  - ii. What is the likelihood that the level of stakeholder ownership will allow for the project outcomes/benefits to be sustained?
  - iii. Is there sufficient public/stakeholder awareness in support of the long-term objectives of the project?
  - iv. What are the key socio-political risks to sustainability?
- C. Institutions and Governance
  - i. To what extent are the outcomes of the project dependent on issues relating to institutional frameworks and governance?
  - ii. What is the likelihood that institutional and technical achievements, legal frameworks, policies and governance structures and processes will allow for the project outcomes/benefits to be sustained?
  - iii. Are the required systems for accountability and transparency and the required technical know-how in place?
  - iv. What are the key institutional and governance risks to sustainability?

- D. Ecological
  - i. Are there any environmental risks that can undermine the future flow of project impacts and Global Environmental Benefits?

# Evaluation Interview Guide Appendix: GEF Evaluation Criteria and Key Definitions

# **Evaluation Criteria**

<u>Relevance</u>: The extent to which the activity is suited to local and national development priorities and organizational policies, including changes over time.

<u>Effectiveness</u>: The extent to which an objective has been achieved or how likely it is to be achieved.

<u>Efficiency</u>: The extent to which results have been delivered with the least costly resources possible. Also called cost-effectiveness or efficacy.

<u>Results:</u> The positive and negative, and foreseen and unforeseen, changes to and effects produced by a development intervention. In GEF terms, results include direct project outputs, short- to medium term outcomes, and longer-term impact including global environmental benefits, replication effects and other, local effects.

<u>Sustainability</u>: The likely ability of an intervention to continue to deliver benefits for an extended period of time after completion. Projects need to be environmentally as well as financially and socially sustainable.

# Key Definitions

<u>Output:</u> Tangible product (including services) of an intervention that is directly attributable to the initiative. Outputs relate to the completion (rather than the conduct) of activities and are the type of results over which managers have most influence. An example of an output for a GEF biodiversity project is a training session held in environmental monitoring, or an environmental education video.

<u>Outcome</u>: Actual or intended changes in capacity, behavior, awareness, knowledge or other condition that an intervention(s) seeks to address. Using the same example, an outcome could be the implementation of a community-based monitoring program, or an increase in awareness about a particular environmental issue.

<u>Impact</u>: Actual or intended changes in environmental status as measured by broadly accepted indicators, such as keystone species' population trends, species density, ecosystem extent or quality (or rate of expansion / contraction), etc.

# F.Annex 6: List of Persons Contacted

#### At Large

- Mr. Chris Baker, Project Administrative Lead, Head of Programme and Strategy Wetlands & Water Resources, Wetlands International
- Mr. Marcel Silvius, Project Technical Advisor, Head of Programme and Strategy Wetlands & Livelihoods, Wetlands International
- Mr. I. Nyoman Suryadiputra, Director, Wetlands International Indonesia
- Ms. Tatiana Minaeva, Russia Country Study Component Coordinator, Wetlands International Russia

#### Bangkok, Thailand

Mr. Max Zieren, Final Project Task Manager, UNEP/DGEF Regional Focal Point Asia & Task Manager Biodiversity and Land Degradation, UNEP Regional Office Asia Pacific Mr. Timothy Boyle, UN-REDD Coordinator, United Nations Development Programme

#### Kuala Lumpur, Malaysia

Mr. Faizal Parish, Project Technical Lead, Director, Global Environment Centre Mr. Chee Tong Yiew, Southeast Asia Regional Component Coordinator, Manager, Global Environment Centre

#### Demonstration Site, Central Kalimantan, Indonesia

Mr. Iwan "Yoyok" Tri Cahyo Wibisono, Manager, Wetlands International - Indonesia Mr. Alue Dohong, Former Demonstration Site Field Manager, Wetlands International - Indonesia

#### Bogor, Indonesia

Mr. Yus Rusila Noor, Biodiversity Senior Programme Officer, Wetlands International - Indonesia

#### Jakarta, Indonesia

Mr. Mike Griffiths, *Coordinator, Kalimantan Forest & Climate Partnership* Mr. Tim Jessup, *Forest & Climate Specialist, AusAID* 

Date	Activity
Thursday, February 4	Initial briefing with UNEP Task Manager in Bangkok, travel to Kuala Lumpur
Friday, February 5	Meeting with staff at Global Environment Centre, travel to Jakarta
Saturday, February 6	Start of travel to Central Kalimantan demonstration site - travel to Kapuas
Sunday, February 7	Travel from Kapuas to Mantangai, continuing to demonstration site
Monday, February 8 –	Central Kalimantan demonstration site field visit, return to Mantangai
Tuesday, February 9	
Wednesday, February 10	Travel from Mantangai to Bogor
Thursday, February 11	Meeting with staff at Wetlands International – Indonesia, return to Jakarta
Friday, February 12	Meeting with Kalimantan Forest Carbon Partnership staff
Saturday, February 13	Travel to Bangkok
Tuesday, February 16	Debriefing with UNEP Task Manager, meeting with UN-REDD coordinator

# G. Annex 7: Evaluation Field Visit Schedule

# H. Annex 8: Documents Cited and Reviewed

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Global Environment Centre. 2003. "Peat-Portal Member User Manual. <u>www.peat-portal.net</u>" October 2003. (33 page plastic spiral bound pamphlet)

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Variety of project output documents for public awareness.

Variety of project management documents, communications, and financial reports.

# I. Annex 9: Evaluator Curriculum Vitae

# Joshua E. Brann

16 S. Knoll Road, Suite 115 Mill Valley, CA, 94941, USA (c) + 202-276-0241 *Brann.Evaluation@gmail.com* Skype: wchinook Nationality: American Civil Status: Single Children: None Birthplace: Alaska, USA

# **Professional Experience**

# Independent Consultant

Conservation and Evaluation Specialist; Mill Valley, CA December 2006 – Present

- Ten years experience working on environmental conservation issues, evaluation, and strategy consulting
- Extensive field work in Asia-Pacific and Eastern Europe regions; additional work in Central Asia and Africa
- Experience leading evaluation teams in project evaluation, and working independently and as a team member
- Expertise in monitoring and evaluation design and execution, including impact evaluation, indicator development, logical frameworks and logic chains, baselines, quantitative analysis, theory-based evaluation, results-based management, knowledge management, design of monitoring tools, and electronic surveys
- Knowledge of and experience with multi-lateral institutions' monitoring and evaluation policies and procedures, including the Global Environment Facility, United Nations, and World Bank
- Experience in all Global Environment Facility focal areas, with particular emphasis in biodiversity, international waters, and multi-focal areas
- Full understanding of key Global Environment Facility principles such as global environmental benefits, incremental costs, catalytic role, stakeholder participation and project sustainability

# Keystone Strategy, LLC / North Harvard Group, LLC

Analyst; South San Francisco, CA, July 2006 – September 2008

Business Strategy Consulting

Conducted market opportunity modeling and strategic analysis for Fortune 100 technology firms

Litigation Support

Performed quantitative analyses of technology markets to support clients in intellectual property litigation Contributed written qualitative analyses to leverage expertise of Harvard Business School professors serving as expert witnesses

# **Global Environment Facility**

# Monitoring & Evaluation Analyst, Evaluation Office; Washington, DC, May 2004 – May 2006

- Monitoring and evaluation of the GEF portfolio, covering the main GEF focal areas: conservation of biodiversity, climate change, international waters, land degradation, ozone depletion, and persistent organic pollutants
- Evaluation team member on major GEF programmatic evaluations:

<u>Pilot Phase of GEF Impact Evaluation (2006)</u>: Developed conceptual model for analyzing project-level biodiversity impacts with global-level biodiversity status; Developed evaluation concept paper and terms of reference; Recruited external consultants for evaluation support

Joint Evaluation of the GEF Activity Cycle and Modalities (2006): Primary responsibility for organization of field visits, external stakeholder survey, and desk review of previous evaluation evidence; Organized and carried out field visit to Macedonia and Turkey; Contributed to evaluation management including budget planning for multiple evaluation components

<u>Evaluation of the GEF Support for Biosafety (2005)</u>: Organized and carried out stakeholder consultation field visits in Tajikistan, Croatia, India and China; Contributed to evaluation planning and management; Managed publication of evaluation report

<u>Third Overall Performance Study of the GEF (2005)</u>: Organized regional stakeholder consultation workshops in Bangkok, Cairo and Pretoria; Provided support to external firm carrying out evaluation

<u>Biodiversity Program Study 2004:</u> Conducted statistical analysis of GEF biodiversity portfolio; Reviewed and analyzed over one hundred project terminal evaluations and progress implementation reports

• Analysis, input and support for additional GEF Evaluation Office evaluations:

<u>GEF Annual Performance Report 2004, 2005 and 2006</u>: Carried out Terminal Evaluation Reviews of million dollar GEF biodiversity projects; Provided statistical portfolio analysis

Review of the GEF Project Cycle: Conducted statistical analysis of GEF project cycle timeframes

<u>Evaluation of Operational Program 12 – Integrated Ecosystem Management</u>: Provided management support and analysis to external evaluation team

• Portfolio monitoring, strategic priority tracking, and biodiversity indicators

Contributed to development of biodiversity portfolio strategic priority tracking tools, with emphasis on sustainable use of biodiversity; Updated and maintained indicators and protected areas databases

#### **Global Environment Facility**

**Consultant, Biodiversity Team/Monitoring & Evaluation Unit**; Washington, DC, October 2002 – May 2004

• Produced and contributed to several GEF biodiversity public relations publications:

*Forests Matter*: Wrote and produced GEF publication on forest ecosystems component of the GEF biodiversity portfolio

<u>Making a Visible Difference in Our World – The GEF and Protected Areas</u>: Researched and analyzed the protected areas component of the GEF portfolio; Developed text for publication

<u>GEF and the Convention on Biological Diversity: A Strong Partnership with Solid Results:</u> Provided research and text for publication distributed at the Conference of Parties of the CBD

• Represented the GEF at major international conservation forums, including:

World Parks Congress (2003); Seventh Conference of Parties of the Convention on Biological Diversity (2004); World Conservation Congress (2004); World Wilderness Congress (2005)

• Supported GEF biodiversity portfolio internal data management systems; Updated and managed GEF biodiversity protected areas database; Researched GEF biodiversity portfolio

#### World Wildlife Fund – US Research Assistant, Asia-Pacific Program; Washington, DC, September 2000 – June 2001

- Edited grant proposals for landscape conservation projects requesting funds from US Government agencies, foundations, and international organizations
- Developed reports and educational brochures

# Alaska Rainforest Campaign

Consultant; Washington, DC, June 2000 – August 2000

• Advocated for increased federal protection for Alaskan forests

# National Wildlife Federation

Conservation Intern; Washington, DC, January 2000 – June 2000

• Advocated for enactment of federal conservation funding legislation

# Education

M.A., International Relations, Johns Hopkins University School of Advanced International Studies Bologna, Italy & Washington, DC, August 2001 – May 2003 Concentrations: Energy, Environment, Science & Technology (EEST) and International Economics

Language Proficiency: French

Independent Study: Human-Wildlife Conflict and Protected Areas

B.A., Environmental Studies, Dartmouth College

Hanover, NH, September 1995 – June 1999

Major: Environmental Studies; Minor: French

Rufus Choate Scholar for Academic Achievement; Citations for Academic Achievement in three courses

Foreign study: Zimbabwe and South Africa (Environmental Studies); France (French)

Certificate, French Language Studies, University of Nice Sophia-Antipolis *Nice, France, July 2001* 

**Microeconomics and French coursework,** United States Department of Agriculture Graduate School *Washington, DC, September 2000 – December 2000* 

High School Diploma - Salutatorian, Homer High School

Homer, AK, September 1991 – May 1995

# **Skills and Activities**

# **Professional Associations**

International Development Evaluation Association (IDEAS)

American Evaluation Association

# Language Skills

French: Speaking (Fair), Writing (Basic), Reading (Good)

Spanish: Speaking (Basic), Reading (Good)

#### **Computer Skills**

Microsoft Office applications, Adobe Photoshop, HTML

**International Experience** 

Field Work: Extensive experience in Asia-Pacific region, additional experience in Eastern Europe, Central Asia, and Africa

Travel: Field work and/or tourism in 38 countries, including all major developing regions **Activities and Interests** 

Professional: Former founding co-chair of International Young Professionals in Conservation initiative Recreational: Hiking; camping; fishing; running; cross-country skiing; alpine skiing/snowboarding

# **Publications**

# **Evaluation**

2007. "Joint Evaluation of the GEF Activity Cycle and Modalities," Washington, D.C.: GEF Evaluation Office.

2006. "Evaluation of GEF Support for Capacity Building for the Cartagena Protocol on Biosafety," Washington, D.C.: GEF Evaluation Office.

2004. "Biodiversity Program Study 2004," Washington, D.C.: GEF Monitoring and Evaluation Unit. Professional

Brann, J. and Matambo, S. T. "Securing the Future of Protected Areas: A commitment to younger generations," in Secretariat of the Convention on Biological Diversity (2004). Biodiversity issues for consideration in the planning, establishment and management of protected area sites and networks. Montreal, SCBD, 164 pages and i to iv. (CBD Technical Series no. 15).

Brann, J., Kugler, L., and Matambo, S. T. "Youth and Young Professional Involvement," in Mulongoy, K.J..

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Brann, J. "Trade Policy in Indonesia: Implications for Deforestation," The Bologna Center Journal of International Affairs, (Bologna: The Bologna Center of The Johns Hopkins University Paul H. Nitze School of Advanced International Studies) Vol. 5, Spring 2002, pp. 77-94.

# **Public Relations**

2004. "Forest Matters: GEF's Contribution to Conserving and Sustaining Forest Ecosystems," Washington, D.C.: GEF Secretariat.

2004. "GEF and the Convention on Biological Diversity: A Strong Partnership with Solid Results," Washington, D.C.: GEF Secretariat.

2003. "Making a Visible Difference in Our World," Washington, D.C.: GEF Secretariat.

# Presentations

International Development Evaluation Association (IDEAS); Impact Evaluation Workshop; Presentation title: "National and Global Biodiversity Indicators," April 4, 2008, Kuala Lumpur, Malaysia. 8th World Wilderness Congress; Closing plenary presentation: "Wilderness and Young Professionals,"

October 6, 2005, Anchorage, Alaska, USA.