



Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

# Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

(Bénin, Burkina Faso, Côte d'Ivoire, Ghana, Mali Togo)

Project Number: 53885

## Annual report (2010)

January 2011





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UNEP-GEF Volta Project  
Project Management Unit  
No. E3 Leshie Crescent - Labone  
P.O. Box 1423 Accra Ghana  
Phone: +233 30 2764111  
Fax: +233 30 2772669  
Mobile: +233 20 6309775  
Website: <http://gefvolta.iwlearn.org>

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The report was prepared by Mr. Hubert Onibon of the UNEP-GEF Volta River Basin Project Management Unit.

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## List of abbreviations and acronyms

<b>Abbreviation</b>	<b>Definition</b>
APNP-VRB	Action Plan for the National Part of the VRB
DEWA	Division of Early Warning and Assessment
DGEF	Division of GEF Coordination
ECOWAS/WRCCC	Economic Community Of West African States/Water Resources Coordination Centre
EU	European Union
GEF	Global Environment Facility
GWP	Global Water Partnership
GWP-WAWP	Global Water Partnership-West Africa Water Partnership
HYCOS	Hydrological Cycle Observation System
ICARM	Integrated Coastal Area and River Basin Management
IRB	International River Basin
ISS	Information Sharing System
IUCN	International Union for Conservation of Nature and Natural Resources
IW-LEARN	Internal Water Learn
IWRM	Integrated Water Resources Management
KEOC	KEnya Operation Centre
M&E	Monitoring and Evaluation
MOA	Memorandum Of Agreement
MOU	Memorandum Of Understanding
NBA	Niger Basin Authority
NFP	National Focal Point
NOFP	National Operational Focal Point
OMVG	Organisation pour la Mise en Valeur du fleuve Gambie
OMVS	Organisation pour la Mise en Valeur du fleuve Sénégal
PAGEV	Projet d'Amélioration de la Gouvernance de l'Eau dans le Bassin de la Volta
PMU	Project Management Unit
PSC	Project Steering Committee
PTF	Project Task Force
RBO	River Basin Organisation
SAP	Strategic Action Program
SIAAP	Syndicat Interdépartemental pour l'Assainissement de l'Agglomération de Paris
TDA	Transboundary Diagnostic Analysis
ToR	Terms of References
UDC	UNEP DHI Centre for Water and Environment
UNEP	United Nations Environment Program
UNEP/DGEF	United Nations Environment Program/ Division of GEF Coordination
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNOPS	United Nations Office for Project Services
VBA	Volta Basin Authority
VRB	Volta River Basin
WEAP	Water Evaluation and Planning System
WSSD	World Summit on Sustainable Development

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## 1. Background information

**Project title:** Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

**Project number (if applicable):** 53885 (UNOPS)

**Responsible division(s)/unit(s) in UNEP:** UNEP/GEF

**Project starting date:** 2<sup>nd</sup> January 2008

**Project completion date:** 31<sup>st</sup> December 2012

**Reporting period:** January-December 2010

**Reference to UNEP sub-programme(s) and expected accomplishment(s):** UNEP/GEF International Waters

### 1.1 Overall objective(s) of the Project

1. The UNEP/GEF Volta River Basin Project is a regional initiative designed to facilitate the integrated management, sustainable development and protection of natural resources of the Volta River Basin within the six riparian countries of Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. It is developed specifically to address priority regional transboundary issues and problems as identified through a preliminary Transboundary Diagnostic Analysis (TDA) prepared during the project development phase. The Project has a primary focus on addressing some of the major environmental problems and issues of the basin leading to the degradation of the environment by human activities.
2. **Project's long-term goal:** equitable and sustainable management of water resources and other connected natural resources in the Volta River Basin and its downstream coastal area.
3. **The project's overall objective is to** enhance the ability of the riparian countries to plan and manage the Volta River Basin and its downstream coastal area (including aquatic resources and ecosystems) on a sustainable basis, through enhanced capacity building and established regional institutional frameworks for effective management; developing national and regional priorities and effective legal, regulatory and institutional frameworks including management tools as a basis for action, as well as initiating national and regional measures to achieve sustainable ecosystem management.
4. **The broad development objective** of this project is to address the perceived major transboundary problems and issues of the Volta Basin causing the degradation of the environment as a result of human activities, by reducing those activities that lead to water scarcity, land and water degradation, and to integrate environmental concerns with present and future development of the basin. The broad development objectives are in line with the WSSD recommendations, national IWRM planning processes, and national development and poverty reduction strategies.
5. The three Specific Objectives of the project are as follows:
  - Specific Objective n° 1: Build capacity, improve knowledge and enhance stakeholders' involvement to support the effective management of the VRB
  - Specific Objective n° 2: Develop river basin legal, regulatory and institutional frameworks and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area
  - Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin.

## 1.2 Partners and Financial details (budget)

6. The UNEP GEF Volta Project is implemented by the United Nations Environment Programme (UNEP). The executing agency is the United Nations Office for Project Services (UNOPS) with the UNEP DHI Centre for Water and Environment (UDC) as co-executing agency. The roles of these institutions are mentioned in the project inception reports as approved by the Project Steering committee meeting held in Bamako, Mali on 15th May, 2008.
7. The project has discussed and negotiated partnership arrangements with several institutions and organisations. Specifically, discussions have been held with VBA, IUCN-PAGEV, SIAAP, IW-LEARN, GEF Niger River, GEF-Senegal River, ECOWAS/WRCC, OMVG, OMVS, NBA and GWP-WAWP on possible areas to collaborate. During the discussion with some of these partners (mainly SIAAP, VBA, IUCN-PAGEV) MOAs or collaboration agreements have been proposed towards the execution of key projects activities.
8. The main financial partners are the Global Environment Facility (GEF) and the Governments of the riparian countries, contributing US\$ 5,844,880 and US\$ 3,424,739 respectively. Countries participating in the Project are Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. Project activities in these participating countries are coordinated by the National Focal Points.
9. Activities at national level are undertaken by the National partners from the six riparian countries, based upon the MOA signed with UNOPS and the agreed project work plan and budget. However, during the reporting year, mobilising the co-financing from some of the national partners and other project partners as stated in the initial project brief have remained very difficult.

**Table 1 – Project financial details (including anticipated co-financing)**

Country/Partner	Initial pledge US\$	Revised pledge (2008) US\$
<b>GEF Support</b>		
Project	5,347,380	5,347,380
PDF – B	472,500	472,500
PDF – A	25,000	25,000
<b>Subtotal GEF</b>	<b>5,844,880</b>	<b>5,844,880</b>
<b>Co-financing</b>		
Benin	418,200	418,200
Burkina Faso		267,353
Côte d'Ivoire	915,000	915,000
Ghana	3,888,270	690,000
Mali	7,211	314,270
Togo	819,916	819,916
UNEP	60,000	60,000
Hungary	10,000	10,000
Czech Rep.	50,000	50,000
IUCN	620,000	620,000
ECOWAS/EU <sup>1</sup>	1,962,500	1,962,500
SIAAP <sup>2</sup>	471,000	471,000
MCA Burkina Faso		To be determined
<b>Subtotal Co-financing</b>	<b>9,222,097</b>	<b>6,598,239</b>
<b>Total Project Budget</b>	<b>15,066,977</b>	<b>12,443,119</b>

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<sup>1</sup> 1,250,000 euros

<sup>2</sup> 300,000 euros

## 2. Project Status

### 2.1 Information on the delivery of the Project activities

#### 2.1.1 Status of implementation activities corresponding to Specific Objective n° 1

10. During the reported period the Project Management Unit (PMU) was fully functional and has executed the project in close collaboration with the Volta Basin Authority and with the support of key institutions/partners (National Focal Points, UNEP/DGEF, UNOPS KEOC and UDC).
11. The 6 NOFP appointed by national authorities have provided support to the National Project Coordinators to manage, on a day-to-day basis the project activities at the country level. The effectiveness of their contribution was monitored by the PMU through the submission of monthly reports approved by the National Project Coordinators.
12. The reported period, the project staff was trained on UNOPS procedures, rules and regulations and also participated in the training workshop organised by UNOPS KEOC on UNOPS project management methodology and implementation.
13. The 2<sup>nd</sup> Project Steering Committee Meeting was held in Abidjan, Côte d'Ivoire in April 2010 and participants were briefed on the status of the implementation of project activities planned for years 2008 and 2009, the work plan and budget for 2010 and challenges faced by the project since 2008. Key concerns raised by PSC members and discussed during the meeting are about the following issues:
  - better understanding of the project institutional framework and governance,
  - salary and motivation of national coordinators,
  - implementation of the demonstration projects,
  - institutional and operational challenges and,
  - DSA paid to PSC members supported by the project
14. From the reports sent to PSC members before the meeting (2008 and 2009 annual reports, 2009 and 2010 work plans), the presentations by the PMU staff on key achievements and the discussions after each presentation, there was a consensus and the PSC members noted with appreciation the progress made during the last two years of the project implementation.
15. The Steering Committee also approved the 2009 annual report, the 2010 work plan and budget and the revised project budget and recommend to UNEP and UNOPS to extend the delivery date of the project until December, 2012 in order to complete project activities in a satisfactory way.
16. The M&E plan is used by the PMU to monitor the project work plan and achievement through the tracking of key indicators. The project monitoring and evaluation plan was implemented as per the approved inception report and 2010 work plan. The main mandatory reports (2009 annual report, 2010 work plan, project implementation report) were prepared by the PMU and approved by the UNEP/DGEF. As result of coordination discussions with the VBA and other projects partners, including the first findings of the Demo Projects inception phase, some of the projects indicators were reviewed and will be submitted to the PSC during its next meeting.
17. Support was provided to the VBA for the review of its strategic plan as recommended during the VBA Expert and VBA Council of Ministers meetings held in Accra in December 2009. Due to lack of funds for a successful implementation of the VBA Strategic Plan the finalisation of the Stakeholders involvement plan and the edition of the Strategic Plan could not be implemented as planned. These 2 tasks are therefore postponed for the year 2011.
18. As described in Table 2, the GEF Volta Project has contributed to the preparation and/or participated in coordination discussions with VBA and various project partners (including IUCN, VB Observatory, GLOWA, GWSP, WASCAL, GCLME, MCA Burkina Faso, and SIAAP) and

various meeting and workshops at national, regional and international levels.

19. The GEF Volta Project has also contributed to the preparation and signed a framework for cooperation of technical and financial partners' consultative group of the Volta Basin Authority.
20. As part of its collaboration plan with ongoing initiatives, the project has contributed and/or co-organised joint activities with the IUCN/PAGEV:
  - support was provided to IUCN/PAGEV for the review of its 2010 work plan and budget
  - support was provided to IUCN/PAGEV for the preparation of the 4<sup>th</sup> consultative forums of communities in the Black Volta (including training in monitoring tools to harness adaptive capacity of community to climate change) held in Tenkodogo (Burkina Faso) and Bolgatanga (Ghana) in October 2010
  - Contribution to the preparation and facilitation of 2 IUCN PAGEV workshops in Togo: i-) 1<sup>st</sup> planning workshop held in Dapaong in May 2010 and ii-) 1<sup>st</sup> consultative forum of communities in the Oti River Basin held in Kara in November 2010
  - Organisation of a joint field visit GEF Volta IUCN PAGEV in view of the implementation of the Demo 2 activities in Benin
  - Contribution to the preparation of the Global Water System Project (GWSP) conference on the Global dimension of changes in rivers basins: threats, linkages and adaptation (6 – 8 December 2010, Bonn, Germany)
21. In addition to that, contact was made for a Study and exchange visit of the Volta Basin Authority to the Mekong River Commission in Laos. Unfortunately, due to budget limitation, logistic and agenda issues the study and exchange visit was cancelled. The GEF Volta, VBA and IUCN/PAGEV have therefore contacted the Orange-Senqu River Commission (ORASECOM) in Pretoria, South Africa for the organisation of the study and exchange visit in January/February 2011.



**Figure 1: Closing ceremony of the 1<sup>st</sup> IUCN/PAGEV consultative forum of communities in the Oti River Basin (Kara Togo, November 2010)**



**Figure 2: Participants at the 1<sup>st</sup> IUCN/PAGEV consultative forum of communities in the Oti River Basin (Kara Togo, November 2010)**

22. Awareness raising campaign activities were conducted during IUCN/PAGEV fields visit in Burkina Faso, Ghana and Togo, and also during the field visit organised in collaboration with IUCN/PAGEV and national partners in Benin. IWRM, IRB management, transboundary water and associated environmental issues, agricultural practices, land and river bank degradation were discussed with stakeholders at the local and grassroots levels.
23. The PMU has also:
- collaborated with IUCN/PAGEV and VB Observatory to organise the 2nd workshop on Sustainable Groundwater Resources Management held in Ouagadougou in August 2010, the regional forum on agricultural (Accra – Ghana, 26-27 May 2010)
  - contributed to the preparation the GLOWA Geoportal Workshop / User Training held in Ouagadougou (Burkina Faso) and Cape Coast (Ghana) in October 2010
  - organised a Consultative Meeting between VBA, GLOWA, UNEP/DEWA and the GEF Volta Project on Volta Basin Web Portals Development
  - participated in the restitution and validation workshop of the hydro-meteorological baseline study in the Volta Basin (Ouagadougou, Burkina Faso, December 2010)
  - contributed to the celebration of the world water day in: i-) Côte d’Ivoire by allocating 5000 \$ for the organization of workshop on “the formulation of National Water Vision” based on IWRM principles and ii-) Ghana by allocating 3169 \$ allocated for awareness creation activities.
24. In the framework of its communication strategy, a TV interview was conducted in collaboration with the VBA on: the GEF Volta Project, VBA’s activities and Tranboundary water issues. The project information brochures were developed (in English and translated to French) and distributed to countries, partners and during different meetings. Different national and regional thematic maps of the Volta River Basin were prepared and used for the finalisation of the TDA. Also, key project reports were translated into French/English and posted on the website and shared with partners.

25. Based on the results of the study on data inventory and assessment, including data sharing mechanism, training gaps and training plan and previous discussions with VBA, the Volta Basin Observatory has been supplied with server equipment. The Volta Basin Information Sharing System (VB-ISS) was developed with the support of UNEP Division of Early Warning and Assessment UNEP/DEWA, discussed with VBA Observatory and used as reference for the training of national partners. This training on the Development of the Volta Basin Information Sharing System (VB-ISS) including server administration, Data Entry and population of the VB-ISS, Remote Support and Fine-tuning was held in Ouagadougou in March 2010.
26. The population of the VB-ISS is ongoing and is currently being done in coordination with VB Observatory based on information (Meta data) available at the observatory (including those received from countries).
27. The procurement of the ArcGIS software and associated accessories is yet to be completed due to the fact that the GEF Volta Project is yet to receive feedback from the Volta Basin Observatory on the Clearinghouse Mechanism proposed by the GEF Volta Project.



**Figure 3: Awareness creation activity during a joint field visit GEF Volta Project, IUCN/PAGEV and PNE Benin (National part of the Basin in Benin, December 2010)**

**Table 2 - Status of implementation activities corresponding to Specific Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB**

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
<b>R1.1: Project Managed and coordinated to partners satisfaction</b>				
A1.1.1.	<ul style="list-style-type: none"> <li>• <i>Establish the Project Management Unit and governance system including: PMU, MOUs, PSC, PTF, NFP, NIC, Inception report, etc<sup>3</sup></i></li> </ul>	Completed	<ul style="list-style-type: none"> <li>• The PMU is fully functional and executing the project in close collaboration with the Volta Basin Authority and with the support of key institutions/partners (National Focal Points, UNEP/DGEF, UNOPS KEOC)</li> <li>• Project staff trained on UNOPS procedures, rules and regulations</li> <li>• Participation of project staff in the training workshop organised by UNOPS KEOC on UNOPS project management methodology and implementation (December 2010)</li> <li>• 2<sup>nd</sup> Project Steering Committee Meeting held in Abidjan, Côte d'Ivoire in April 2010</li> </ul>	<ul style="list-style-type: none"> <li>• Technical support to project execution was weak during the first semester. A contractual agreement for UDC to provide technical assistance to the project was signed in August 2010.</li> <li>• Also, in light of budget constraints, UNOPS and UNEP/DGEF took a decision to suspend the input of the project task force until a point that additional project outputs were forthcoming.</li> </ul>
A1.1.2.	<ul style="list-style-type: none"> <li>• <i>Develop and implement project monitoring and evaluation plan</i> <ul style="list-style-type: none"> <li>○ update the M&amp;E plan and submit it to the PSC</li> </ul> </li> </ul>	Completed	<ul style="list-style-type: none"> <li>• The M&amp;E plan is used by the PMU to monitor the project work plan and achievement through the tracking of key indicators</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
A1.1.3.	<ul style="list-style-type: none"> <li>• Identify linkages with other partners, develop and implement collaboration plan (including collaboration framework with the VBA)                             <ul style="list-style-type: none"> <li>○ support VBA for the editing and dissemination of its Strategic plan</li> </ul> </li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>• VBA Strategic Plan reviewed and discussed with key partners</li> </ul>	<ul style="list-style-type: none"> <li>• Due to budget limitation, VBA Expert and VBA Council of Ministers meetings have been postponed and therefore the final Strategic Plan is yet to be approved. The Strategic Plan will be edited as soon as the VBA Council of Ministers approves it</li> </ul>

<sup>3</sup> Front style for activities completed: italic

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<ul style="list-style-type: none"> <li>○ support VBA for the organisation of coordination meeting with ongoing/planned initiatives</li> </ul>	Continuous	<ul style="list-style-type: none"> <li>• Participation in coordination discussions with VBA and various project partners (including IUCN, VB Observatory, GLOWA, GWSP, WASCAL, MCA Burkina Faso, SIAAP)</li> <li>• Contribution to the preparation and signature of a framework for cooperation of technical and financial partners consultative group of the Volta Basin Authority</li> </ul>	<ul style="list-style-type: none"> <li>• Due to budget limitation VBA could not organised coordination meetings as planned</li> </ul>
	<ul style="list-style-type: none"> <li>○ Implement joint activities with IUCN/PAGEV in Togo; Burkina Faso and Ghana</li> </ul>	Continuous	<ul style="list-style-type: none"> <li>• Support provided to IUCN/PAGEV for the review of its 2010 work plan and budget</li> <li>• Support provided to IUCN/PAGEV for the preparation of the 4th consultative forums of communities in the Black Volta (including training in monitoring tools to harness adaptive capacity of community to climate change) held in Tenkodogo (Burkina Faso) and Bolgatanga (Ghana) in October 2010</li> <li>• The GEF Volta Project collaborated with IUCN/PAGEV and VB Observatory to organise the 2nd workshop on Sustainable Groundwater Resources Management held in Ouagadougou in August 2010</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
	<ul style="list-style-type: none"> <li>○ Prepare and sign a collaboration agreement with SIAAP for the implementation of the Demo Project 2 in Togo</li> </ul>	Postponed	<ul style="list-style-type: none"> <li>• Due to the delay in the finalisation of the feasibility study funded by SIAAP in view of the construction of the wastewater treatment plant, the signature of the agreement has been postponed to the 1<sup>st</sup> Semester of 2011</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
	<ul style="list-style-type: none"> <li>○ Participate in PAGEV and EU Volta Projects steering committees meetings and other key workshops</li> </ul>	Continuous	<ul style="list-style-type: none"> <li>• Participation in the workshop on Good Practices and Portfolio Learning in African Transboundary Freshwater and Marine Legal and Institutional Frameworks organised by the Global Transboundary International Waters Governance Initiative (14-17 February 2010, Entebbe, Uganda)</li> <li>• Participation in UNESCO IHP Workshop on Climate change, water resources and coastal zones management in Africa held in Cotonou, Benin (15 – 17 February 2010)</li> <li>• Participation in the 1st Global Catchment Initiative Expert Group meeting on Global Aspects of Water Research and Management in Large River Basins and joint presentation (VBA and GEF Volta Project) of a case study on the Volta River Basin(17-19 February 2010, Bonn, Germany)</li> <li>• Participation in the Workshop on the Establishment of Priorities in Capacity Building organised by the West African Science Service</li> </ul>	<ul style="list-style-type: none"> <li>• The 2 projects didn't organise their PSC Meetings during the reported period</li> </ul>

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<ul style="list-style-type: none"> <li>○ Participate in VBA and Volta Basin Observatory meetings and workshops</li> <li>○ Facilitate the contact between VBA and Mekong River Basin Authority</li> </ul>	<p>Continuous</p> <p>Completed</p>	<p>Center on Climate and Adapted Land Use (WASCAL) in collaboration with the VBA (June 2010)</p> <ul style="list-style-type: none"> <li>• Participation in 7<sup>th</sup> GCLM E Steering Committee Meeting followed by the Council of Ministers meeting (Accra, Ghana June-July 2010)</li> <li>• Participation in GCLME Mid-Term Regional Workshop on the Development of National Action Plans</li> <li>• Contribution to the preparation of the Global Water System Project (GWSP) conference on the Global dimension of changes in rivers basins: threats, linkages and adaptation (6 – 8 December 2010, Bonn, Germany)</li> <li>• Contribution to the preparation and participation in the regional forum on agricultural water organised by the Volta Basin Observatory (Accra – Ghana, 26-27 May 2010)</li> <li>• Contribution to the preparation of the GLOWA Geoportal Workshop / User Training held in Ouagadougou (Burkina Faso) and Cape Coast (Ghana) in October 2010</li> <li>• Organisation of a Consultative Meeting between VBA, GLOWA, UNEP/DEWA and the GEF Volta Project on Volta Basin Web Portals Development</li> <li>• Participation in the restitution and validation workshop of the hydro-meteorological baseline study in the Volta Basin (Ouagadougou, Burkina Faso, December 2010)</li> <li>• Contact made for a Study and exchange visit of the Volta Basin Authority to the Mekong River Commission.</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> <li>• Due to logistic and agenda issues the study and exchange visit was cancelled. The GEF Volta, VBA and IUCN/PAGEV have contacted the Orange-Senqu River Commission (ORASECOM) for the organisation of the study and exchange visit in January/February 2011</li> </ul>
A1.1.4.	<ul style="list-style-type: none"> <li>• Carry out project reports (inception report, Half Yearly and annual reports)</li> </ul>	Completed	<ul style="list-style-type: none"> <li>• Annual report (2009), 2010 work plan &amp; budget and Project Implementation Report completed and approved by UNEP/DGEF</li> <li>• 2011 work plan &amp; budget prepared and submitted to UNEP/DGEF for approval</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
A1.1.5.	<ul style="list-style-type: none"> <li>• Document project implementation and communicate results through publications, regional and internal reports, project news letter and project</li> </ul>	Continuous		<ul style="list-style-type: none"> <li>• N/A</li> </ul>

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<p>website: <i>(just for the record)</i></p> <ul style="list-style-type: none"> <li>○ Synthesize all documentations on the project and produce communication products for all events related to transboundary water and associated environment issues</li> <li>○ Make presentations of the GEF Volta Project at major regional and international water conferences (e.g. GWP, PAGEV, VBA, ANBO and ECOWAS Meetings, etc)</li> <li>○ Prepare and disseminate projects brochures, leaflets, etc</li> <li>○ Organise radio and TV broadcasts</li> </ul>	Completed	<ul style="list-style-type: none"> <li>• Key project reports were translated into French/English, posted on the website and shared with partners</li> <li>• Preparation of different national and regional thematic maps of the Volta River Basin.</li> </ul>	• N/A
		Completed	<ul style="list-style-type: none"> <li>• Participation/presentation of the GEF Volta Project in several workshops (see results of activity 1.1.3)</li> </ul>	• N/A
		Completed	<ul style="list-style-type: none"> <li>• The Project information brochures were developed (in English and translated to French) and distributed to countries, partners and during different meetings.</li> </ul>	• N/A
		Completed	<ul style="list-style-type: none"> <li>• TV interview on the GEF Volta Project, VBA activities and Transboundary water issues</li> </ul>	• N/A
<b>R1.2: Capacity &amp; participation of stakeholders in VRB management strengthened</b>				
A1.2.1.	<ul style="list-style-type: none"> <li>• <i>Conduct training on TDA/SAP process for NFPs</i></li> </ul>	Completed	<ul style="list-style-type: none"> <li>• Activity completed in 2008</li> </ul>	• N/A
A1.2.2.	<ul style="list-style-type: none"> <li>• Analysis of national institutions and stakeholders and preparation of stakeholders involvement plan</li> <li>○ Finalise and disseminate the stakeholders' involvement plan</li> <li>○ Support in collaboration with PAGEV the establishment of pilot local committees in Benin</li> </ul>	Postponed	<ul style="list-style-type: none"> <li>• Activity postponed to 2011</li> </ul>	<ul style="list-style-type: none"> <li>• Due to budget limitation VBA could not implement its Strategic plan</li> </ul>
		Continuous	<ul style="list-style-type: none"> <li>• Contribution to the preparation and facilitation of 2 IUCN PAGEV workshops in Togo: i-) 1<sup>st</sup> planning workshop held in Dapaong in May 2010 and ii-) 1<sup>st</sup> consultative forum of communities in the Oti River Basin held in Kara in November 2010</li> </ul>	• N/A

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<p>and Togo, Ghana and Côte d'Ivoire (grassroots communities) in view of the establishment of national basin organisation</p> <ul style="list-style-type: none"> <li>○ Support and co-organise the celebration of international water or environment events in riparian countries</li> </ul>	Continuous	<ul style="list-style-type: none"> <li>• Organisation of joint field visit GEF Volta IUCN PAGEF in view of the implementation of the Demo 2 activities in Benin</li> <li>• In the framework of the celebration of the water day at the national level, 5000 \$ were allocated to Côte d'Ivoire Government for the organization of workshop on "the formulation of National Water Vision" based on IWRM principles</li> <li>• Support was also provided for the organisation of the water day celebration in Ghana: 3169 \$ allocated for various activities</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
A1.2.3.	<ul style="list-style-type: none"> <li>• Conduct training sessions and awareness raising campaigns for national institutions and stakeholders on IWRM and IRB management</li> <li>○ Organise national training sessions on IRB management for personnel in the key institutions (1 session per country)</li> <li>○ Organise at national level, awareness raising campaigns on IRB management for stakeholders (1 campaign per country)</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>• Support provided to IUCN/PAGEV for the preparation of trainings in monitoring tools to harness adaptive capacity of community to climate change held in Tenkodogo (Burkina Faso) and Bolgatanga (Ghana) in October 2010. These trainings involved both personnel in the key institutions and local stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Training for partners in Benin and Togo were postponed because of the schedules of expected participants and other key players</li> <li>• Training could not be organised in Côte d'Ivoire because of unstable situation that occurred during the last semester of the year</li> <li>• The GEF Volta Project and IUCN/PAGEV agreed to organise the trainings during the first semester of 2011</li> </ul>
A1.2.4.	<ul style="list-style-type: none"> <li>• Conduct training sessions for national institutions on data management and monitoring and, clearinghouse system</li> </ul>	Completed	<ul style="list-style-type: none"> <li>• Training on the Development of a Volta Basin Information Sharing System (VB-ISS) including server administration, Data Entry and population of the VB-ISS, Remote Support and Fine-tuning held in Ouagadougou in March 2010</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
A1.2.5.	<ul style="list-style-type: none"> <li>• Conduct training on SAP implementation at national and regional levels</li> </ul>		<ul style="list-style-type: none"> <li>• Not planned for the reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
<b>R1.3: Knowledge based expanded &amp; basin-wide communication mechanism in place</b>				
A1.3.1.	<ul style="list-style-type: none"> <li>Conduct study on data inventory and assessment, including data sharing mechanism, training gaps and training plan (<i>Dissemination of studies reports</i>)</li> </ul>	Completed	<ul style="list-style-type: none"> <li>The reports (national and regional) of the study on data inventory and assessment, including data sharing mechanism, training gaps and training plan were disseminated during the reporting period and used as guideline/reference for the preparation of national and regional TDA reports and other studies conducted by various partners at national and regional levels</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
A1.3.2.	<ul style="list-style-type: none"> <li>Support and/or contribute to studies on the establishment of the Volta Basin Observatory through database, data collection and data sharing protocol               <ul style="list-style-type: none"> <li>Contribute to thematic forums/trainings as per Volta Basin Observatory work plan</li> <li>Contribute to the preparation of reference report on the VRB water and environmental resources status as per Volta Basin Observatory work plan</li> <li>Participate to the Volta Basin Observatory steering committee meeting (and other key meetings if required)</li> <li>Support the installation of the Volta Basin data platform through the procurement and installation of: 1 Hardware Server, 1 UPS, the Software ArcGIS</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Continuous</li> <li>Continuous</li> <li>Continuous</li> <li>80% Completed</li> </ul>	<ul style="list-style-type: none"> <li>See results of activities 1.13 and 1.24</li> <li>Review of the report of the hydro-meteorological baseline study in the Volta Basin</li> <li>Participation in and contribution to different coordination meetings for the Observatory organised by the VBA</li> <li>See results of activities 1.13 and 1.24</li> <li>Procurement and installation of server equipment to the VBA in support to the operation and population of the VB-ISS completed</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> <li>N/A</li> <li>N/A</li> <li>For the procurement of the ArcGIS hardware and associated accessories, it will be completed as soon as the VB Observatory makes decision on the appropriate technological approach.</li> </ul>

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<p>Server, the ArcGIS Desktop (if necessary) and the MS SQL Server 2005</p> <ul style="list-style-type: none"> <li>○ Support the development of the Volta Basin Information Sharing System (VB-ISS)</li> </ul>	Continuous	<ul style="list-style-type: none"> <li>• Volta Basin Information Sharing System (VB-ISS) developed with the support of UNEP/DEWA, discussed with VBA Observatory and used as reference for the training of national partners (March 2010)</li> <li>• The population of the VB-ISS is ongoing: the population is currently being done in coordination with VB Observatory based on information (meta data) available at the observatory (including those received from countries)</li> </ul>	• N/A
A1.3.3.	<ul style="list-style-type: none"> <li>• Organize one scientific workshop in collaboration with UNESCO</li> </ul>		<ul style="list-style-type: none"> <li>• Not planned for the reported period</li> </ul>	• N/A
A1.3.4.	<ul style="list-style-type: none"> <li>• Develop and update project website</li> </ul>	Continuous	<ul style="list-style-type: none"> <li>• Project website regularly updated</li> </ul>	• N/A

### 2.1.2 Status of implementation activities corresponding to Specific Objective n° 2

28. The specific objective 2 of the project aims to finalize and agree on a geographically specific, quantitative TDA and contribute to the development of Strategic Action Programme (SAP) and Action Plan for the National Part of the VRB (APNP-VRB) that address issues of priority transboundary concerns. A transboundary diagnostic analysis is an important tool/approach that GEF has adopted towards the development of a Strategic Action Programme.
29. TDA is a scientific-technical baseline document, which provides a foundation of common understanding for the development of future planning and prioritization processes, such as the Strategic Action Programme. The analysis is carried out in a cross sectoral manner, focusing on transboundary problems without ignoring national concerns and priorities. In order to make the analysis more effective and sustainable it should include a detailed 'governance analysis' which considers the local institutional, legal and policy environment.
30. The year 2010 was mainly dedicated to the finalisation of the Transboundary Diagnostic Analysis document of the Volta River Basin both at national and regional level with a strong in implication of major stakeholders involved in the sustainable management of water and associated environmental resources of the basin.
31. The report of the study relating to the review of the preliminary TDA document and preparation of methodology for new TDA and SAP development and the note for GEF Volta TDA and SAP Process Implementation were widely disseminated and used for the preparation of national and regional TDA reports.
32. As follow up on the regional TDA planning workshop held in Lomé – Togo in December 2009, the PMU and TDA Regional Consultants have prepared TORs for the recruitment of National supporting consultants (1 ecosystem and 1 governance/socioeconomic experts per country). National Partners used national procedures to identify and recommend relevant national experts based on the TORs' requirements and contracts signed with selected national consultants.
33. Guidelines and outlines of national and regional reports were prepared and discussed with key partners mainly during national TDA starting/planning meetings held in the six riparian countries during the 1<sup>st</sup> quarter of the year. The main objective of these workshops was to engage key stakeholders in the Volta River basin, in the participatory process for the development of the scientifically-based, non-negotiated TDA for the basin and to establish mechanisms for compiling and/or validating data and information that will feed into the process. Key workshops outputs are summarised as follows:
  - Main transboundary water and associated environmental issues and problems identified and discussed through brainstorming exercises and impact analysis
  - Data gaps and sources of information identified and discussed
  - In-depth discussions conducted on governance (policies, legislation, regulatory and institutional frameworks), socio-economic values, ecosystems and prioritisation of transboundary issues
  - Preliminary discussions conducted on key stakeholders and actors to address trans-boundary issues
  - Methodology and work plan for TDA finalisation at the national level presented and discussed in details.
34. Major issues discussed during the thematic meetings organised per country in support of national TDA consultants are: consultant's methodology and approach, existence and access to relevant data and information, transboundary water and associated environmental concerns. These meetings also offered opportunity to national partners to review and comment reports drafted by national consultants.
35. The six national TDA reports drafted by TDA national teams were reviewed by the PMU and TDA Regional Experts. The national TDA validation workshops were held in Benin, Burkina

Faso, Ghana, Mali and Togo and the 5 National TDA reports were completed and approved by the PMU and TDA Regional Experts. The national TDA Validation workshop could not be organised in Côte d'Ivoire because of the unstable situation which occurred during the last semester of the year.

36. The national TDA starting/validation workshops were attended by participants from ministries in charge of water and environment, researchers for universities, water resources management, governance and legal experts from the basin states, regional and national TDA consultants, representatives of regional and national institutions and project partners in the basin.



**Figure 4: Participants at the national planning workshop (Bamako, Mali – March 2010)**

37. Furthermore, the Volta Basin Causal Chain Analysis (CCA) Workshop was organised in Akosombo- Ghana from 31 August – 2 September 2010 and its main objective was to identify common and transboundary problems in the basin and develop a causal chain analysis for each of the identified priority transboundary problems.
38. The CCA workshop was attended by 22 participants, including regional and national TDA consultants and expert scientists from the riparian countries to continue the process of developing the Volta River Basin TDA through series of analysis which was carried out in a cross sectoral manner, focusing on transboundary issues without ignoring national concerns and priorities. Discussion during the workshop led to the following 8 priority transboundary concerns/problems
- Changes in water quantity and seasonality of flows
  - Degradation of Aquatic Ecosystems
  - Degradation of Surface Water Quality/Pollution
  - Invasive Aquatic Species
  - Land Degradation/ Loss of Vegetative Cover
  - Loss of Biodiversity
  - Water related diseases
  - Coastal Erosion

39. For each priority transboundary problem, a casual chain analysis was developed: immediate and underlying causes per sector, root causes, environmental impacts and socioeconomic impacts.
40. The final regional TDA document could not be completed because of the delay in finalising national TDA documents. This is mainly due to inexistence or difficult access to relevant data at national level. Therefore this situation didn't allow the organisation of the SAP regional starting workshop. Nevertheless, transboundary issues to be addressed by the SAP were discussed during national/regional TDA meetings, workshops, CCA workshop and also by anticipation in national TDA documents.



**Figure 5: Participants at the Causal Chain Analysis workshop (Akossombo- Ghana from 31 August – 2 September 2010)**

**Table 3 - Status of implementation activities corresponding to Specific Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area**

Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
<b>R2.1: VRB regional coordination mechanisms supported (<i>Just for the record</i>)</b>				
A2.1.1.	<ul style="list-style-type: none"> <li>Advocate at Ministerial level and through project meetings, workshops and reports, the importance of ratifying the basin convention (<i>just for the record</i>)</li> </ul>	Continuous	<ul style="list-style-type: none"> <li>After ratification and deposition of Ratification Instruments by a minimum of four out of the six riparian countries (Benin, Burkina Faso, Ghana, Togo and Mali), the Convention on the Status of the Volta River and Establishment of the Volta Basin Authority came into force on 14 August 2009.</li> </ul>	<ul style="list-style-type: none"> <li>Côte d'Ivoire is yet to ratify the convention</li> </ul>
A2.1.2.	<ul style="list-style-type: none"> <li>Insert and mainstream the TDA, SAP and APNP-VRB into the VBA policies, strategies and plans (<i>just for the record</i>)</li> </ul>			
<b>R2.2: Transboundary Diagnostic Analysis (TDA) updated and finalised</b>				
A2.2.1.	<ul style="list-style-type: none"> <li>Review the preliminary TDA, identify gap and prepare detailed methodology for TDA finalisation and SAP/APNP-VRB development (<i>Dissemination of study report</i>)</li> </ul>	Completed	<ul style="list-style-type: none"> <li>The report of the study relating to the review of the preliminary TDA document and preparation of methodology for new TDA and SAP development and the note for GEF Volta TDA and SAP Process Implementation were widely disseminated and used for the preparation of national and regional TDA reports</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
A2.2.2.	<ul style="list-style-type: none"> <li>Organize starting regional/national workshops with national, regional and international institutions and stakeholders</li> </ul>	Completed	<ul style="list-style-type: none"> <li>National TDA starting workshops held in the 6 riparian countries during the first quarter of the year</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
A2.2.3.	<ul style="list-style-type: none"> <li>Update and complete the TDA document including situation analysis and causal chain analysis</li> </ul>	Ongoing (70%)	<ul style="list-style-type: none"> <li>Guidelines and outlines of national and regional reports prepared and discussed with key partners</li> <li>4 thematic meetings organised per country in support to TDA national TDA consultants</li> <li>Six national TDA reports drafted and reviewed by the PMU and TDA Regional Experts</li> </ul>	<ul style="list-style-type: none"> <li>Delay in finalisation of TDA National reports due to lack of or difficult access to data</li> </ul>

<b>Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area</b>				
<b>Code</b>	<b>Output/Service</b>	<b>Status</b>	<b>Description of work undertaken during the reporting period</b>	<b>Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken</b>
			<ul style="list-style-type: none"> <li>• 5 of the 6 National TDA reports completed and approved by the PMU and TDA Regional Experts</li> <li>• Causal Chain Analysis Workshop in view of the Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin held in Akosombo, Ghana (31st August – 2nd September 2010)</li> <li>• Preparation of the regional TDA report: ongoing</li> </ul>	
A2.2.4.	<ul style="list-style-type: none"> <li>• Organize validation regional workshop with national, regional and international institutions and stakeholders</li> </ul>	80% Completed	<ul style="list-style-type: none"> <li>• National TDA validation workshops organised in Benin, Burkina Faso, Ghana, Mali and Togo</li> </ul>	<ul style="list-style-type: none"> <li>• National TDA Validation workshop could not be organised in Côte d'Ivoire because of unstable situation occurred during the last semester of the year</li> </ul>
A2.2.5.	<ul style="list-style-type: none"> <li>• Submit the TDA document to the PSC and VBA for approval</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>• National TDA reports and CCA workshop report shared with VBA, VB Observatory and other key partners</li> </ul>	<ul style="list-style-type: none"> <li>• Due to the delay in the finalisation on national TDA reports, the regional TDA report will be submitted by June 2011</li> </ul>
<b>R2.3: Action Plans for the National Parts of the VRB (APNP-VRB) developed</b>				
A2.3.1.	<ul style="list-style-type: none"> <li>• Organize 6 workshops at country level (with national institutions and stakeholders) as input to the APNP-VRBs elaboration</li> </ul>		<ul style="list-style-type: none"> <li>• Not planned for the reported period</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
A2.3.2.	<ul style="list-style-type: none"> <li>• Prepare the National Action Plans documents, including APNP-VRBs implementation guideline, monitoring &amp; evaluation system for APNP-VRBs implementation, long term financing strategy for the APNP-VRBs</li> </ul>		<ul style="list-style-type: none"> <li>• Not planned for the reported period</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
A2.3.3.	<ul style="list-style-type: none"> <li>• Organize APNP-VRB validation workshops in each riparian country</li> </ul>		<ul style="list-style-type: none"> <li>• Not planned for the reported period</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
A2.3.4.	<ul style="list-style-type: none"> <li>• Submit APNP-VRB document to national authorities for endorsement</li> </ul>		<ul style="list-style-type: none"> <li>• Not planned for the reported period</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
<b>R2.4: Strategic Action Programme (SAP) prepared</b>				

<b>Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area</b>				
<b>Code</b>	<b>Output/Service</b>	<b>Status</b>	<b>Description of work undertaken during the reporting period</b>	<b>Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken</b>
A2.4.1.	<ul style="list-style-type: none"> <li>Organize starting regional/national workshops with national, regional and international institutions and stakeholders</li> </ul>	Postponed	<ul style="list-style-type: none"> <li>Not implemented</li> </ul>	<ul style="list-style-type: none"> <li>Activity postponed to 2011 due to delay in finalising the TDA</li> </ul>
A2.4.2.	<ul style="list-style-type: none"> <li>Prepare the Strategic Action Programme document, including SAP implementation guideline, monitoring &amp; evaluation system for SAP implementation, long term financing strategy for the SAP</li> </ul>		<ul style="list-style-type: none"> <li>Transboundary issues to be addressed by the SAP discussed during national/regional TDA meetings, workshops, CCA workshop and also in anticipation of national TDA documents</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
A2.4.3.	<ul style="list-style-type: none"> <li>Organize validation regional workshop with national, regional and international institutions and stakeholders</li> </ul>		<ul style="list-style-type: none"> <li>Not planned for the reported period</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
A2.4.4.	<ul style="list-style-type: none"> <li>Submit the SAP document to: i-) the Steering Committee for approval and, ii-) the Ministers in charge of Water and Environment for the endorsement of the SAP document (ideally in conjunction with RBO Ministerial meeting)</li> </ul>		<ul style="list-style-type: none"> <li>Not planned for the reported period</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>

### 2.1.3 Status of implementation activities corresponding to Specific Objective n° 3

41. Three demo projects were selected and developed during the overall project preparation. The 3 demo project documents were updated in 2008 taking into account recent development in the proposed demo project areas, especially: i-) equipment of the Sourou river with hydrometric and rain gauge station through the implementation of the Volta HYCOS Project (Demo Project 1), ii-) the construction of wastewater network in the City of Kara with the support of SIAAP (Demo Project 2) and, iii-) the construction of the hydroelectric dam at Bui in Ghana (Demo Project 3). The review of the demo projects has led to more detailed and elaborate project documents submitted to the PMU and national partners.
42. Based on the revised Demo Projects documents and discussions with national partners, MOAs were prepared and signed in 2010 with the Government of Mali for the implementation of the Demo Project 1 and the Governments of Côte d'Ivoire and Ghana for the implementation of the Demo Project 3. Also national project implementation bodies were established and are implementing the Demo Project as per updated work plans and budgets.
43. Support was provided to project teams in, Côte d'Ivoire, Ghana and Mali during the inception phase and inception report drafted by national partners.
44. As result of a study funded by MCA Burkina Faso for the development of the early warning system in the framework of the Demo Project 1, the HEC-RAS model has been chosen as hydrological model for flood forecasting including management, rehabilitation and management of the Lery Dam. It's adaptation to the project area is ongoing. The choice of this model was strongly supported by the Volta Basin Observatory and the Volta HYCOS project. Strengths and weaknesses of the model were discussed during coordination meetings initiated by the PMU.
45. The calibration and adaptation of the model is ongoing. And according to partners in Burkina Faso, the model will be functional by early January 2011 and the GEF Volta Project will be informed accordingly. Also, the GIS mapping of the project area in Burkina Faso was completed during the reporting period and its extension to the project area in Mali discussed and planned with national partners and MCA Burkina Faso.
46. One of the major outputs of the coordination meetings is that the GEF Volta Project and MCA Burkina Faso agreed to collaborate, harmonise and coordinate their support to Burkina Faso and Mali governments for the joint management of a flow release warning system in the Sourou river valley (tributary of Black Volta River or Mouhoun). The hydrological model will be developed and implemented through financial support from MCA and the GEF Volta Project will contribute technically mainly for: bathymetric measurements, study on historic floods, different probable flooding scenarios based on data analysis and the early warning system and measures to mitigate flood impacts and improve the management of Lery dam based on identified scenarios.
47. With regard to the Demo Project 2, the construction of the wastewater network in Ewawu area (Kara, Togo) funded by the SIAAP is ongoing and 843 linear meters were completed during the reporting period. SIAAP has funded a feasibility study for the construction of the wastewater treatment plant and its connection to the wastewater network. The study has been completed and the report submitted by the consultant is under review. The delay in the finalisation of this study didn't allow the signature of the MOA with SIAAP as planned.
48. The Demo area in Kara, Togo (including constructed network and site identified for the construction of the treatment plant) was visited during a joint mission GEF Volta and IUCN/PAGEV. This offered the opportunity to discuss major water and environmental sanitation issues and plan awareness creation activities with local stakeholders
49. For the implementation of the Demo Project 2 in Benin, a field visit conducted in collaboration with IUCN/PAGEV, Benin National Water Partnership and the National Coordinator and discussions with local stakeholders led to the conclusion that main concerns and priorities of local stakeholders are: protection of river bank, inadequate practice of fishery mainly in Burkina Faso

side of the Pendjari river and, easy access to water and its optimisation for the development of agricultural activities. It is therefore suggested to adjust the project accordingly. To address these issues, the GEF Volta Project will undertake further consultations with IUCN/PAGEV, local stakeholders and national authorities in Benin and Burkina Faso. Basically the PMU envisages developing a code of conduct for the practice of fishery activity and extending PAGEV activities to national part of Volta Basin in Benin (protection of river banks, establishment of local water committees).

50. In view of the implementation of the Demo Project 3, coordination meetings were organised with national partners in Ghana and Côte d'Ivoire. During the said meetings project work plan and budget were updated. Also the inception phase of the Demo project was launched in Ghana and project partners mobilised for implementation of activities'. Activities were affected by the long rainy season which occurred in the region this year. In addition to that, the ongoing political situation in Côte d'Ivoire didn't allow the implementation of the project activities as planned and this has affected the project implementation even on the Ghanaian side. The year 2011 is therefore going to be fully dedicated to the implementation and frequent monitoring of the Demo Project activities



**Figure 6: Fishery area at the border between Benin and Burkina Faso (Pendjari river Basin)**



**Figure 7: inadequate practice of fishery mainly in Burkina Faso side of the Pendjari River**

**Table 4 - Status of implementation activities corresponding to Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin**

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
<b>R3.1: 3 Demo project successfully implemented</b>				
A3.1.1.	<ul style="list-style-type: none"> <li>Review demo project documents (logframe, activities, budget, M&amp;E plan and work plan) and prepare inception report (<i>Dissemination of studies reports and preparation of inception reports</i>)</li> </ul>	Completed	<ul style="list-style-type: none"> <li>Demo Project documents updated, validation workshops organised, final reports submitted by consultants and approved by the PMU and national partners and shared with the VBA and UNEP/DGEF</li> <li>Final report for the review of the Demo Project 3 translated into French and shared with Côte d'Ivoire partners</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
A3.1.2.	<ul style="list-style-type: none"> <li>Implement the Demo project no 1: Joint management by Burkina Faso and Mali of a flow release warning system in the Sourou river valley (tributary of Black Volta River or Mouhoun)</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>MOA prepared and signed with the government of Mali</li> <li>National project implementation bodies established and functional.</li> <li>Support provided to project team in Mali during the inception phase and inception report drafted by national partners</li> <li>Organisation of 2 coordination meetings with MCA Burkina Faso and national partners (Mali and Burkina Faso) for the implementation of the Demo Project</li> <li>As result of a study funded by MCA Burkina Faso and discussed with key partners, the HEC-RAS model has been chosen as hydrological model for flood forecasting including management, rehabilitation and management of the Lery Dam. It's adaptation to the project area is ongoing</li> <li>GIS mapping of the project area in Burkina Faso completed and its extension to the project area in Mali discussed and planned with national partners and MCA Burkina Faso</li> </ul>	<ul style="list-style-type: none"> <li>Hydrological equipment could not be installed as planned for 2 major constraints: i-) difficult access to the project area during the raining season and, ii-) non-mobilisation of national contribution.</li> </ul>
A2.6.1.	<ul style="list-style-type: none"> <li>Implement the Demo project no 2: Installing and comparing technological models of waste water treatment in the Cities of Kara (Togo) and Natitingou (Benin)</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>The construction of the wastewater network in Ewawu area (Kara, Togo) funded by the SIAAP is ongoing and 843 linear meters were completed during the reported period.</li> <li>Feasibility study for the construction of the wastewater treatment plant and its connection to the network completed and report under review</li> <li>The Demo area (including constructed network and site identified for the construction of the treatment plant) was visited during a joint mission GEF Volta and IUCN/PAGEV. This offered the opportunity</li> </ul>	<ul style="list-style-type: none"> <li>Due to the delay in the finalisation of the feasibility study, the GEF Volta Project could not sign the MOA with SIAAP as planned</li> </ul>

<b>Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin</b>				
<b>Code</b>	<b>Output/Service</b>	<b>Status</b>	<b>Description of work undertaken during the reporting period</b>	<b>Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken</b>
			<p>to discuss major water and environmental sanitation issues and plan awareness creation activities with local stakeholders</p> <ul style="list-style-type: none"> <li>Field visit conducted in collaboration with IUCN/PAGEV, Benin National Water Partnership and the National Coordinator and discussions with local stakeholders led to the conclusion that main concerns and priorities of local stakeholders are: protection of river bank, inadequate practice of fishery mainly in Burkina Faso side of the Pendjari river and, easy access to water and its optimisation for the development of agricultural activities. It is therefore suggested to adjust the project accordingly</li> </ul>	
A2.6.2.	<ul style="list-style-type: none"> <li>Implement the Demo project no 3: Restoring and protecting the river beds of the Black Volta River (Côte d'Ivoire &amp; Ghana) and its tributaries through participative campaigns of reforestation</li> </ul>	Ongoing	<ul style="list-style-type: none"> <li>MOAs prepared and signed with the governments of Côte d'Ivoire and Ghana</li> <li>National project implementation bodies established and functional.</li> <li>Organisation of coordination meetings with national partners in Ghana and Côte d'Ivoire for the implementation of the Demo Project</li> <li>Inception phase of the Demo project launched in Ghana and project partners mobilised for activities' implementation</li> </ul>	<ul style="list-style-type: none"> <li>The ongoing situation in Côte d'Ivoire didn't allow the organisation of the 1<sup>st</sup> bilateral meeting and key field visits as planned.</li> <li>The difficult access to the project area during the raining season didn't allow follow up field visits to project area</li> </ul>
A2.6.3.	<ul style="list-style-type: none"> <li>Evaluate the implementation of the three Demo projects</li> </ul>		<ul style="list-style-type: none"> <li>Not planned for the reported period</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
<b>R3.2: Replication strategy for demonstration project developed and initiated</b>				
A3.2.1.	<ul style="list-style-type: none"> <li>Develop a plan for the replication of the Demo projects</li> </ul>		<ul style="list-style-type: none"> <li>Not planned for the reporting period.</li> </ul>	N/A
A3.2.2.	<ul style="list-style-type: none"> <li>Develop six national Demo projects based and TDA/SAP priorities</li> </ul>		<ul style="list-style-type: none"> <li>Not planned for the reporting period.</li> </ul>	N/A
A3.2.3.	<ul style="list-style-type: none"> <li>Submit the six national Demo projects to riparian countries for approval</li> </ul>		<ul style="list-style-type: none"> <li>Not planned for the reporting period.</li> </ul>	N/A
A3.2.4.	<ul style="list-style-type: none"> <li>Incorporate the replication plan in the SAP</li> </ul>		<ul style="list-style-type: none"> <li>Not planned for the reporting period.</li> </ul>	N/A

## **2.2 Report on status of achievements of project objectives and outputs**

51. Tables 5, 6 and 7 provide an overview of the status of achievement of the various project objectives and outputs as per the project logical framework.

**Table 5 - Status of achievements of project outputs: Specific Objective 1**

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
<b>Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB</b>			
<b>Outcome 1.1:</b> Project Managed and coordinated to partners satisfaction	<ul style="list-style-type: none"> <li>• Project management and co-ordination bodies established and functional</li> </ul>	<ul style="list-style-type: none"> <li>• PMU and all project organs operational and effective</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
<b>Outcome 1.2:</b> Capacity & participation of stakeholders in VRB management strengthened	<ul style="list-style-type: none"> <li>• Ministries of environment and water resources are both represented in the Project Steering Committee</li> </ul>	<ul style="list-style-type: none"> <li>• For each riparian country, the ministries in charge of water and environment are participating in the project activities both at national and regional levels</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
	<ul style="list-style-type: none"> <li>• All relevant stakeholders participate in project activities and have access to project reports, publications, database, etc</li> </ul>	<ul style="list-style-type: none"> <li>• Key stakeholders identified, analysed and involvement plan drafted both at national and regional levels</li> <li>• Ongoing and planned initiatives reviewed and a collaboration plan proposed based on the links established with the UNEP/GEF Volta Project outputs.</li> </ul>	<ul style="list-style-type: none"> <li>• Due to budget limitation for the implementation of its Strategic Plan, the VBA could not undertake the finalisation of the stakeholders plan as planned</li> </ul>
	<ul style="list-style-type: none"> <li>• Institutions have the capacity to manage and monitor data in support of the implementation of SAP and APNP-VRB, and provide coordinated data transfer to VBA observatory</li> </ul>	<ul style="list-style-type: none"> <li>• Training needs identified and prioritised and training plans prepared both at the national and regional levels.</li> <li>• Inputs provided for the training of VBA National experts on IWRM process and International river basin management</li> <li>• Local stakeholders in Burkina Faso and Ghana trained on IWRM process</li> <li>• Training needs of data hosting institutions identified and prioritised. National/Regional training plans prepared, shared with the Volta Basin Observatory, incorporated into its work plan for and national/regional partners trained on the Volta Basin Information Sharing system</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
	<ul style="list-style-type: none"> <li>• Involvement of stakeholders in SAP and APNP-VRB process and roles detailed in SAP and APNP-VRB documents</li> </ul>	<ul style="list-style-type: none"> <li>• Plan for involving stakeholders in the TDA/SAP developed and incorporated in the methodology for TDA/SAP development</li> <li>• Stakeholders participated in national validation workshops for the foundational studies supporting the TDA/SAP process</li> <li>• Stakeholders participated in the regional/national TDA planning and national TDA validation workshops</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
	<ul style="list-style-type: none"> <li>• National institutions have the capacity to implement the SAP and APNP-VRB</li> </ul>	<ul style="list-style-type: none"> <li>• National institutions engaged in TDA and SAP processes and are positioned to implement the SAP (completed in 2008)</li> <li>• National partners strongly involved in the TDA Process: finalisation of the TDA methodology and reports outlines, thematic meetings, planning and validation workshops</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
<b>Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB</b>			
<b>Outcome 1.3:</b> Knowledge base expanded & basin-wide communication mechanism in place	<ul style="list-style-type: none"> <li>VBA database developed and updated at regional and national levels</li> </ul>	<ul style="list-style-type: none"> <li>Volta Basin Information Sharing System (VB-ISS) developed with the support of UNEP/DEWA, discussed with VBA Observatory and used as reference for the training of national partners (March 2010)</li> <li>The population of the VB-ISS is ongoing : currently the population is done in coordination with VB Observatory based on information (meta data) available at the observatory (including those received from countries)</li> <li>Procurement of server equipment to the VBA in support to the operation and population of the VB-ISS</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
	<ul style="list-style-type: none"> <li>Contributions to the establishment of regional Volta Basin Observatory completed and approved by the VBA</li> </ul>	<ul style="list-style-type: none"> <li>Information related to existing Metadata categories &amp; data hosting institutions updated during the TDA process, shared with VB Observatory and mechanism for the circulation of data and information at national and regional levels discussed with partners during the training on VB ISS.</li> <li>Different national and regional thematic maps of the Volta River Basin prepared and shared with project partners.</li> <li>The PMU has also participated in and contributed to different coordination meetings for the Observatory organised by the VBA</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
	<ul style="list-style-type: none"> <li>At least 2 thematic studies carried out</li> </ul>	<ul style="list-style-type: none"> <li>As result of coordination discussions undertaken with the VBA and the EU Volta project, it has been decided to develop the hydrological model and carry out the thematic studies through the implementation of the EU Volta Project and also in framework of the Volta Basin Observatory activities</li> </ul>	<ul style="list-style-type: none"> <li>Delay in the implementation of the activity by the EU Project and the Volta Basin Observatory.</li> </ul>

**Table 6 - Status of achievements of project outputs: Specific Objective 2**

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
<b>Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area</b>			
<b>Outcome 2.1:</b> VRB regional coordination mechanisms supported	<ul style="list-style-type: none"> <li>• VRB Convention into force</li> </ul>	<ul style="list-style-type: none"> <li>• 5 countries (Benin, Burkina Faso, Ghana, Mali and Togo) have signed and deposited the Ratification document</li> <li>• Côte d'Ivoire yet to ratify the convention</li> <li>• The Volta Basin Convention entered into force on 14 August 2009</li> </ul>	<ul style="list-style-type: none"> <li>• Côte d'Ivoire is yet to ratify the convention</li> </ul>
<b>Outcome 2.2:</b> Transboundary Diagnostic Analysis (TDA) updated and finalised	<ul style="list-style-type: none"> <li>• TDA revised, finalized and endorsed by the Project Steering committee</li> </ul>	<ul style="list-style-type: none"> <li>• Note for GEF Volta TDA and SAP Process Implementation prepared and used as basis for the implementation of TDA activities</li> <li>• Detailed methodology, work plan and guideline for TDA development and reports (national/regional) outlines finalised and discussed with key stakeholders</li> <li>• TDA national/regional teams established and functional</li> <li>• Draft National TDA reports submitted and reviewed by regional consultants and national partners</li> <li>• TDA Regional and national starting workshops organised in December 2009 and March 2010 and TDA national Validation workshops held in Benin, Burkina Faso, Ghana, Mali and Togo</li> <li>• National TDA reports finalised for Benin, Burkina Faso, Ghana, Mali and Togo</li> <li>• Causal Chain Analysis Workshop in view of the Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin held in Akosombo, Ghana (31st August – 2nd September 2010)</li> <li>• Preparation of the regional TDA Document is ongoing</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing situation in Côte d'Ivoire didn't allow the organisation of the national validation workshop</li> <li>• Delay due to inexistence or difficult access to relevant data</li> </ul>
<b>Outcome 2.3:</b> Action Plans for the National Parts of the VRB (APNP-VRB) developed	<ul style="list-style-type: none"> <li>• APNP-VRB finalised and endorsed at country level</li> </ul>	<ul style="list-style-type: none"> <li>• Detailed methodology and work plan for APNP-VRB development completed and discussed with project partners during various TDA workshops</li> </ul>	N/A
	<ul style="list-style-type: none"> <li>• Key inter-sectoral transboundary issues identified and plan for sectoral harmonisation developed with relevant sectors and agreed for inclusion in IWRM process</li> </ul>	<ul style="list-style-type: none"> <li>• Methodology developed and reflects IWRM principles and process</li> <li>• National IWRM issues analyse through governance analysis during the TDA process</li> </ul>	N/A
<b>Outcome 2.4:</b> Strategic Action Programme (SAP) prepared	<ul style="list-style-type: none"> <li>• SAP drafted, finalized and endorsed at ministerial level (Water and Environment Ministers)</li> </ul>	<ul style="list-style-type: none"> <li>• Detailed methodology and work plan for SAP development completed and discussed with project partners during various TDA workshops</li> </ul>	N/A



Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
<b>Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area</b>			
	<ul style="list-style-type: none"> <li>• Volta Basin Authority (VBA) adopts SAP into their work plan</li> </ul>	<ul style="list-style-type: none"> <li>• The VBA has been involved in the establishment of TDA regional team, the establishment of methodology for TDA finalisation and SAP/APNP-VRB development, including TDA programming and CCA workshops.</li> </ul>	N/A

**Table 7 - Status of achievements of project outputs: Specific Objective 3**

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
<b>Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin</b>			
<b>Outcome 3.1: 3 Demo Project successfully implemented</b>	<ul style="list-style-type: none"> <li>• MOUs on Demo projects implementation signed with riparian countries by year 1</li> </ul>	<ul style="list-style-type: none"> <li>• MOA prepared and signed with the Government of Mali for the implementation of Demo 1</li> <li>• MOAs prepared and signed with the Governments of Côte d'Ivoire and for the implementation of Demo 3</li> <li>• Discussions finalised with MCA Burkina Faso for the implementation of the Demo 1 in Burkina Faso</li> <li>• Discussions finalised with SIAAP for the implementation of the Demo 2 in Togo</li> </ul>	<ul style="list-style-type: none"> <li>• Protracted political situation in Côte d'Ivoire</li> <li>• Difficult access to Demo 1 and Demo 3 sites</li> </ul>
	<ul style="list-style-type: none"> <li>• Three Demo projects executed resulting in stress reduction (see demo logframe) by year 3</li> </ul>	<ul style="list-style-type: none"> <li>• Demo projects activities launched in Mali (DP1) and, Côte d'Ivoire/Ghana (DP3): project bodies established and functional and inception phase ongoing</li> <li>• Demo 1: HEC-RAS model has been chosen as hydrological model for flood forecasting including management, rehabilitation and management of the Lery Dam</li> <li>• Demo 2:               <ul style="list-style-type: none"> <li>○ 843 linear meters wastewater network in completed in Ewawu area (Kara, Togo)</li> <li>○ Feasibility study for the construction of the wastewater treatment plant and its connection to the network completed</li> <li>○ Priority problems in the national part of the basin (Benin) identified and way forward discussed with stakeholders</li> </ul> </li> <li>• Demo 3:               <ul style="list-style-type: none"> <li>○ Coordination meetings organised with national partners in Ghana and Côte d'Ivoire</li> <li>○ Inception phase launched in Ghana and project partners mobilised for activities' implementation</li> </ul> </li> <li>• Demo Projects activities are ongoing as planned</li> </ul>	
	<ul style="list-style-type: none"> <li>• Lessons learned from the 3 Demo projects documented and incorporated in SAP and APNP-VRB documents by year 4</li> </ul>	<ul style="list-style-type: none"> <li>• Not planned for the reporting period.</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>



Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

<b>Outcome 3.2:</b> Replication strategy for demonstration project developed and initiated	• Six national Demo projects are prepared to be submitted to co-funding partners	• Not planned for the reporting period.	• N/A
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### 3. Report on changes/delays in project delivery and remedial action

52. Several coordination discussions were conducted with key project partners (VBA, IUCN/PAGEV, Volta HYCOS, SIAAP and UNEP/DGEF mainly). Based upon these discussions, a number of responses to the coordination/harmonisation issues raised were agreed upon and recommendations made where applicable, including:

- Support to finalise the VBA strategic plan and programming framework development
- Development of hydrological model and thematic studies through the Volta Basin Observatory
- Implementation of the Demo Project 1 in Burkina Faso in the framework of the agreement signed by the Burkina Faso Government with the MCA
- Implementation of the Demo Project 2 in Togo through an MOA to be signed with SIAAP
- Adaptation of the Demo 2 to the stakeholders needs in Benin
- Additional resources to be sought for implementing the joint demonstration project Ghana-Togo on the preservation of coastal aquifers from salinisation, which was not included in the final project document

53. Further details on specific problems encountered, and action taken to solve them have been presented in sections 2.1 and 2.2. Nevertheless, the main bottleneck of the reporting period are due to:

- delay in the submission of reports by consultants and lack of coordination/ feedback from national partners on specific issues as presented in Tables 2, 3 and 4,
- delay in feedback from Volta Basin Observatory on the technological approach for the development and implementation of the VB ISS,
- non mobilisation of national co-finance contribution as pledged by Governments of riparian countries during the PDF-B phase and confirmed during the inception period,
- impacts of the unstable political situation in Côte d'Ivoire on the project's activities, mainly the TDA process and the Demo Project 3.

#### 4. Financial report

54. The 2010 summary financial report is presented in Table 8. A detailed financial report has been prepared in EXCEL by the PMU and submitted in a separate report to UNEP/DGEF and UNOPS KEOC. The total amount spent during the year 2010 is 979 633.00\$ while the total budget for the same year was estimated at 1 557 313.00\$. The budget for project staff (personnel and administrative support) has exceeded by 49 541.00\$; this is due to change in UN staff salaries scale during the course of the year.

55. The relatively low expenditure rate (63%) is due to 4 main reasons:

- National TDA consultants payment could not be captured in 2010 expenditures report: this is due to the delay in the finalisation of national TDA reports and its implication on the validation process
- Delay in the submission of periodic financial reports by national partners in the framework of the MOAs signed with riparian countries for the implementation of the project activities at the national level: UNOPS could therefore not make subsequent transfers as per the schedule
- Delay in the finalisation of the feasibility study for the implementation of Demo Project 2 activities in Kara, Togo: this situation didn't allow the GEF Volta Project to sign the MOA with SIAAP and make financial transfer as planned
- Purchase of the ESRI Software on hold due to the fact that the project is yet to receive a clear feedback from the Volta Basin Observatory on the technological approach for the development and implementation of the VB ISS

Table 8 – Summary of project expenditures (2010 activities)

UNEP BUDGET LINE/OBJECT OF EXPENDITURE	2010 Budget (\$)	2010 Expenditures (\$)	Balance (\$)
<b>10 PROJECT PERSONNEL COMPONENT</b>			
1100 Project Personnel	298 319	341 089	-42 769
1200 Consultants	124 000	23 441	100 559
1300 Administrative support	20 957	27 729	-6 772
1400 Volunteers	0	0	0
1600 Travel on official business (PMU+Consultants)	70 962	35 790	35 173
<b>1999 Component Total</b>	<b>514 239</b>	<b>428 047</b>	<b>86 191</b>
<b>20 SUB-CONTRACT COMPONENT</b>			
2100 Sub-contracts (MoU's/LA's for UN agencies)	0	0	0
2200 Sub-contracts (MoU's/LA's for non-profit organisations)	353 214	157 656	195 558
2399 Sub-contracts (commercial purposes)	0	0	0
<b>2999 Component Total</b>	<b>353 214</b>	<b>157 656</b>	<b>195 558</b>
<b>30 TRAINING COMPONENT</b>			
3100 Fellowships	0	0	0
3200 Group training	92 000	74 022	17 978
3300 Meetings/conferences	201 000	166 278	34 722
<b>3999 Component Total</b>	<b>293 000</b>	<b>240 300</b>	<b>52 700</b>
<b>40 EQUIPMENT &amp; PREMISES COMPONENT</b>			
4100 Expendable equipment	56 067	3 059	53 007
4200 Non-expendable equipment	54 487	42 493	11 994
4300 Premises	2 000	849	1 151
<b>4999 Component Total</b>	<b>112 554</b>	<b>46 401</b>	<b>66 152</b>
<b>50 MISCELLANEOUS COMPONENT</b>			
5100 Operation and maintenance of equip.	11 300	109	11 191
5200 Reporting costs	74 498	23 249	51 249
5300 Sundry (communications, postage,	28 152	11 304	16 848
5400 Hospitality and entertainment	0	0	0
5500 Evaluation	55 001	0	55 001
<b>5999 Component Total</b>	<b>168 950</b>	<b>34 662</b>	<b>134 289</b>
<b>TOTAL COSTS</b>	<b>1 441 957</b>	<b>907 067</b>	<b>534 889</b>
<b>Project Execution Costs -UNOPS (8%)</b>	<b>115 357</b>	<b>72 565</b>	<b>42 791</b>
<b>GRAND TOTAL COSTS</b>	<b>1 557 313</b>	<b>979 633</b>	<b>577 681</b>



## 5. Annexes

### 5.1 Annex 1: Regional meetings held during the reporting period

N.	Meeting Type	Title	Venue	Date	Convened by	Organized by	No. of Participants	Report Issued as doc. No.	Language	D
1.	Regional training	Development of a Volta Basin Information Sharing System (VB-ISS): regional training workshop	Ouagadougou Burkina Faso	01-05 March 2010	VBA/PMU	VBA/PMU	27	UNEP/GEF/Volta/RR 4/2010	French and English	March
2.	Starting workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Starting workshop Ghana	Accra Ghana	11-12 March 2010	PMU	National Partners	16	N/A	English	March
3.	Starting workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Starting workshop Côte d'Ivoire	Abidjan Côte d'Ivoire	16-17 March 2010	PMU	National Partners	26	N/A	French	March
4.	Starting workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Starting workshop Mali	Bamako Mali	23-24 March 2010	PMU	National Partners	22	N/A	French	March
5.	Starting workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Starting workshop Togo	Lomé Togo	25-26 March 2010	PMU	National Partners	23	N/A	French	March
6.	Starting workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Starting workshop Benin	Cotonou Benin	29-30 March 2010	PMU	National Partners	35	N/A	French	March
7.	Starting workshop	Development of the Transboundary Diagnostic	Ouagadougou Burkina Faso	1-2 April 2010	PMU	National Partners	24	N/A	French	April 2

N.	Meeting Type	Title	Venue	Date	Convened by	Organized by	No. of Participants	Report Issued as doc. No.	Language	D
		Analysis (TDA) of the Volta River Basin: National Starting workshop Burkina Faso								
8.	Project Steering Committee Meeting	Second Steering Committee Meeting of the UNEP/GEF Volta River Basin Project	Abidjan Côte d'Ivoire	7-8 April 2010	Minister in charge of water & Env.	GEF Volta Project/PMU	29	UNEP/GEF/Volta/PSC.2/2010	French and English	April 2
9.	Technical workshop	Causal Chain Analysis Workshop in view of the Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin	Akosombo Ghana	31 <sup>st</sup> August – 2 <sup>nd</sup> September 2010	PMU	PMU	25	UNEP/GEF/Volta/RR 5/2010	French and English	Septem
10.	Coordination meeting	Coordination meeting with MCA Burkina Faso (Implementation of Demo 1)	Ouagadougou Burkina Faso	September 2010	PMU	National Partners	10	N/A	French	Septem
11.	Coordination meeting	Coordination meeting with MCA Burkina Faso and National partners in Burkina Faso and Mali (Implementation of Demo 1)	Ouagadougou Burkina Faso	October 2010	PMU	National Partners	15	N/A	French	Octobe
12.	Validation workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Validation workshop Togo	Lomé Togo	24 October 2010	PMU	National Partners	39	N/A	French	Octobe
13.	Validation workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Validation workshop Mali	Bamako Mali	26 October 2010	PMU	National Partners	38	N/A	French	Octobe

<b>N.</b>	<b>Meeting Type</b>	<b>Title</b>	<b>Venue</b>	<b>Date</b>	<b>Convened by</b>	<b>Organized by</b>	<b>No. of Participants</b>	<b>Report Issued as doc. No.</b>	<b>Language</b>	<b>D</b>
14.	Validation workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Validation workshop Benin	Cotonou Benin	11 November 2010	PMU	National Partners	29	N/A	French	Novem
15.	Validation workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Validation workshop Ghana	Accra Ghana	17 November 2010	PMU	National Partners	31	N/A	English	Novem
16.	Validation workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National Validation workshop Burkina Faso	Ouagadougou Burkina Faso	3 December 2010	PMU	National Partners	32	N/A	French	Decem

## 5.2 Annex 2: Publications/Reports of meetings produced during the reporting period

No	Type	Title	Author(s) / Editor(s)	Publisher	Publication Date
1.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Annual report	Hubert Onibon	UNEP GEF Volta Project	Jan-10
2.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Plan de travail et budget annuels (2010) – Traduction Française-	Hubert Onibon	UNEP GEF Volta Project	Jan-10
3.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Rapport Annuel (traduit en Français)	Hubert Onibon	UNEP GEF Volta Project	Jan-10
4.	Workshop report	Rapport de l'atelier régional de formation sur le développement et l'utilisation du Système d'Echange d'Information du Bassin de la Volta	Hubert Onibon	UNEP GEF Volta Project	Mar-10
5.	Workshop report	Report of the Causal Chain Analysis workshop for the Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin	Olumide Akinsola and Daniel Malzbender	UNEP GEF Volta Project	Sep-10
6.	Consultancy report	Analyse Diagnostique Transfrontalière du bassin versant de la Volta : Rapport National Bénin.	Albert TONOUHEWA, Claude KIDJO, Abel AFOUDA & Calixte Désiré HOUSSA	UNEP GEF Volta Project	Nov-10
7.	Consultancy report	Analyse Diagnostique Transfrontalière du bassin versant de la Volta : Rapport National Mali	Fatogoma BAMBA, Amadou MAIGA and Abdrahamane DEME	UNEP GEF Volta Project	Nov-10
8.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Annual work plan and budget (2011)	Hubert Onibon	UNEP GEF Volta Project	Dec-10
9.	Mission report	Rapport de la mission de prospection pour la définition des actions pilotes de lutte contre la dégradation des ressources environnementales transfrontalières du bassin de la Volta au Bénin	Hubert Onibon	UNEP GEF Volta Project	Dec-10
10.	Consultancy report	Analyse Diagnostique Transfrontalière du bassin versant de la Volta : Rapport National Burkina Faso	Thiombiano L. Jérôme, Béré Christian, Ouédraogo Louis, & Nombéré Issaka	UNEP GEF Volta Project	Dec-10
11.	Consultancy report	Analyse Diagnostique Transfrontalière du bassin versant de la Volta : Rapport National Côte d'Ivoire (Draft)	IRITIE G. Appolinaire, GOULA Bi Tié Albert & EGNANKOU Wadja Mathieu	UNEP GEF Volta Project	Dec-10
12.	Consultancy report	Volta Basin Transboundary Diagnostic Analysis: National report Ghana	ilson Agyei Agyare, Ronald Abrahams & Bernadette Araba Adjei	UNEP GEF Volta Project	Dec-10
13.	Consultancy report	Analyse Diagnostique Transfrontalière du bassin versant de la Volta :	Komla SANDA, Derman	UNEP GEF	Dec-10



No	Type	Title	Author(s) / Editor(s)	Publisher	Publication Date
		Rapport National Togo.	ASSOUMA,, Bontiebite BADJARE & Kudzo Atsu GUELLY	Volta Project	

### 5.3 Annex 3: Other Key Outputs/Activities during the reporting period

No	Description
1.	Participation in the 2nd workshop on Sustainable Groundwater Resources Management held in Ouagadougou in August 2010
2.	Participation in the workshop on Good Practices and Portfolio Learning in African Transboundary Freshwater and Marine Legal and Institutional Frameworks organised by the Global Transboundary International Waters Governance Initiative (14-17 February 2010, Entebbe Uganda)
3.	Participation in UNESCO IHP Workshop on Climate change, water resources and coastal zones management in Africa held in Cotonou, Benin (15 – 17 February 2010)
4.	Participation in the 1st Global Catchment Initiative Expert Group meeting on Global Aspects of Water Research and Management in Large River Basins and joint presentation (VBA and GEF Volta Project) of a case study on the Volta River Basin(17-19 February 2010, Bonn, Germany)
5.	Participation in the regional forum on agricultural water organised by the Volta Basin Observatory (Accra – Ghana, 26-27 May 2010)
6.	Contribution to the preparation and facilitation of 2 IUCN PAGEV workshops in Togo: i-) 1st planning workshop held in Dapaong in May 2010and ii-) 1st consultative forum of communities in the Oti River Basin held in Kara in November 2010
7.	Participation in the Workshop on the Establishment of Priorities in Capacity Building organised by the West African Science Service Center on Climate and Adapted Land Use (WASCAL) in collaboration with the VBA (June 2010)
8.	Participation in 7th GCLME Steering Committee Meeting followed by the Council of Ministers meeting (Accra, Ghana June-July 2010)
9.	Participation in GCLME Mid-Term Regional Workshop on the Development of National Action Plans
10.	Participation in the restitution and validation workshop of the hydro-meteorological baseline study in the Volta Basin (Ouagadougou, Burkina Faso, December 2010)

#### 5.4 Annex 4: Sub-contracts issued during the reporting period

No.	Name of sub-contractors	Country	Objective of the contract
1.	Hotel Palme Beach	Ouagadougou	Conference package for Volta Basin Information Sharing System (VB-ISS) training (1 -5 March 2010)
2.	Diversifia Sarl	Ouagadougou	Simultaneous interpretation (French-English-French) at Volta Basin Information Sharing System (VB-ISS) training (1 -5 March 2010)
3.	Diversifia Sarl	Ouagadougou	English-French Translation of 2010 Workplan & Budget
4.	GATI	Ghana	English – French Translation of 2009 Annual Report
5.	GATI	Ghana	Translation of TOR for VB-ISS training (February 2010)
6.	GATI	Ghana	Translation of Guidelines for TDA National Reporting on Governance
7.	Tassie & Co.	Ghana	English-French-English Translation of TDA reports (32 pages)
8.	Avenir S. A. (Ivotel)	Côte d’Ivoire	Conference package for Steering Committee meeting (7-8 April 2010)
9.	International Languages Academy	Côte d’Ivoire	Simultaneous interpretation (French-English-French) at Steering Committee meeting (7-8 April 2010)
10.	Volta Hotel	Ghana	Conference Package for TDA Causal Chain Analysis Workshop (30 Aug – 03 Sept 2010)
11.	House of Translation	Ghana	Simultaneous interpretation at TDA Causal Chain Analysis Workshop (30 Aug – 03 Sept 2010)
12.	Tassie & Co.	Ghana	Pre-workshop Translation of TDA documents (August 2010)
13.	Alabaster Car Rental & Tours	Ghana	Transportation for participants travelling from Accra to attend TDA Causal Chain Analysis Workshop (30 Aug – 03 Sept 2010) in Akosombo, Ghana
14.	Ets. Le Nouvel Horizon	Benin	Transportation for participants travelling from Benin to attend TDA Causal Chain Analysis Workshop (30 Aug – 03 Sept 2010) in Akosombo, Ghana
15.	Combert Impression	Ghana	Printing of GEF Volta River Basin Project folders

### 5.5 Annex 5: Staffing details (personnel, experts, consultants)

No.	Name of expert	Nationality	Functional title
1.	Hubert Onibon	Benin	Regional Project Coordinator
2.	Olumide Akinsola	Nigeria	Science and Information Officer
3.	Abigail Sackar	Ghana	Administrative Assistant
4.	Angelika Quaye	Togo	Bilingual Secretary
5.	Daniel Malzbender	Germany	Regional Consultant for TDA development (Team Leader)
6.	Durphey Moses	Ghana	Regional Consultant for TDA development (Ecosystems Expert)
7.	Opoku Ankomah Yaw	Ghana	Regional Consultant for TDA development (Water Resources Expert)
8.	Ousmane Diallo	Burkina Faso	Regional Consultant for TDA development (Governance Expert)
9.	Fall Oumar	Mauritania	Regional Consultant for TDA development (Economist)
10.	Albert TONOUHEWA	Benin	National TDA Consultant
11.	Jerôme Thiombiano	Burkina Faso	National TDA Consultant
12.	Goué Appolinaire IRITIE	Côte d'Ivoire	National TDA Consultant
13.	Wilson Agyare	Ghana	National TDA Consultant
14.	Fotogoma Bamba	Mali	National TDA Consultant
15.	Sanda Komla	Togo	National TDA Consultant
16.	Abel Afouda	Benin	Governance expert (National TDA team)
17.	Ferdinand Kidjo	Benin	Ecosystems expert (National TDA team)
18.	R. Louis oUedraogo	Burkina Faso	Ecosystems expert (National TDA team)
19.	Christian Armand Bere	Burkina Faso	Socio-economist (National TDA team)
20.	Albert Goula	Côte d'Ivoire	Governance expert (National TDA team)
21.	W. Mathieu Egnankou	Côte d'Ivoire	Ecosystems expert (National TDA team)
22.	Adramane Demé	Mali	Governance expert (National TDA team)
23.	Amadou Maïga	Mali	Ecosystems expert (National TDA team)
24.	Derman Assouma	Togo	Governance expert (National TDA team)
25.	Kudzo Atsu Guelly	Togo	Ecosystems expert (National TDA team)
26.	Bernadette Araba Adjei	Ghana	Governance expert (National TDA team)
27.	Abrahams Ronald K	Ghana	Ecosystems expert (National TDA team)