



GEF/C.40/Inf.12  
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GEF Council Meeting  
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Washington D.C.

Agenda Item 6

## STAP WORK PROGRAM FOR FY2012

**(Prepared by STAP)**

# Scientific and Technical Advisory Panel



The Scientific and Technical Advisory Panel, administered by UNEP, advises the Global Environment Facility

## STAP Work Program for FY2012

May 16, 2011

### Introduction

1. This paper presents the Work Program for the Scientific and Technical Advisory Panel for the GEF financial year 2012 (FY12) and encompasses both recurrent advisory/operational work, e.g. screening of PIFs, ongoing activities carried over from FY11, along with new tasks and advisory products. As in previous years, STAP has used a multi-step consultation process to develop the Work Program including use of STAP meetings, focal area Task Forces, e-mail exchange with GEF Agencies and Convention Secretariats, and direct consultations with individual partners and GEF Secretariat staff.
2. A record of consultation and feedback regarding this Work Program is maintained by STAP and where possible is available through the STAP website<sup>1</sup>, documenting the comments and suggestions made to STAP and STAP's response.
3. As in previous years STAP intends to adjust the Work Program at defined intervals during the year through regular consultation with GEF partners, and any major changes will be brought to the attention of the Council. The current version of the Work Program will be maintained for review and comment on the STAP website, together with documentation on any adjustments that were made.
4. Work conducted by STAP is delivered by Panel Members, STAP Secretariat staff, and expert consultants or partner organizations – a process which is directed by Panel Members and managed by the STAP Secretariat. All advisory products are peer reviewed externally by experts selected by the STAP Secretariat in consultation with Panel Members.
5. While the Work Program includes the majority of the formal advisory work of the STAP leading to published advisory products, significant use of STAP resources are contributed by STAP towards consultations, liaison with Convention subsidiary bodies, surveillance of new science and strategic dialogue with GEF partners and which are not shown in the Work Program.

### The Work Program

6. In the Table which follows, specific tasks are indexed with "Activity numbers". For the coming financial year (FY12) STAP lists all work that will draw on resources made available during that financial year. However, STAP is presently delivering work under the FY11 Work Program using FY11 resources; these activities are not shown in the table unless there is a need to continue the work using FY12 resources.
7. The column in the table marked as "Objective and/or Expected Impacts" is addressed as follows. When an activity addresses directly an Objective of the GEF-5 Focal Area Strategies, the relevant Objective is cited. Otherwise an expected impact is provided. For activities that are ongoing and that were funded to support Strategic Objectives of the GEF-4 strategies, the relevant SO reference is provided in lieu of an impact.

<sup>1</sup> STAP Work Programs can be found at <http://www.unep.org/stap/STAPWorkProgram/tabid/2914/language/en-US/Default.aspx>

8. Note that the "Activity" numbering started with the reform of STAP shortly after the opening of GEF-4 and will be continued forward through GEF-5 as a continuous series to ensure information management and avoid duplicate activity numbering.

## Corporate Activities

ACT. Nr.	Objective and/or Expected impacts	Output / Product	Milestones	Expected Delivery
C#1	<ul style="list-style-type: none"> <li>▪ STAP Report to the GEF Council on each Work Program</li> <li>▪ STAP screening reports of projects and programs to Agencies, GEF Sec</li> </ul>	<p><b>Scientific/technical analysis of GEF portfolio in each GEF Work Program for GEF Council</b></p> <p><b>Justification:</b> Requested by GEF Council/Secretariat, GEF Agencies</p> <ul style="list-style-type: none"> <li>• STAP screening of all full-sized and on a selective basis medium-sized project concepts and program framework documents submitted as PIFs and PFDs, respectively; selected projects discussed with GEF Agencies and GEF Secretariat</li> <li>• Dialogue with GEF Agencies upstream on PFD submissions and on a selective basis for Production of Report for each GEF Council meeting</li> </ul>	<ul style="list-style-type: none"> <li>• All required STAP screens uploaded to PMIS by GEF work program deadlines</li> </ul>	<p>Continuous throughout the year as GEF Work Programs are developed</p>
C#3	<p><b>Objective:</b> GEF strategies, projects and programs are designed based on the best available science and technology advice</p> <p><b>Outcome:</b> Best available science and technology advice is provided by the STAP to the GEF partnership</p>	<p><b>Outreach and communication</b></p> <p>Continuous improvement in delivery of the best available science and technology advice to the GEF partnership</p> <p><b>Justification:</b> Recommended by STAP and several GEF stakeholders including GEF Council, Secretariat, Secretariats of MEAs, and GEF Agencies</p>	<ul style="list-style-type: none"> <li>▪ Records of STAP's participation and results at GEF Sec &amp; Constituency meetings;</li> <li>▪ Records of successful work between STAP and subsidiary bodies of MEAs;</li> <li>▪ STAP's outreach materials and advisory products are fully accessible online, including GEF website;</li> <li>▪ Records of STAP's participation at science/policy interface meetings of direct relevance for the GEF;</li> <li>• Fully functional and user-friendly STAP website</li> </ul>	<p>Continuing task</p>
C#5	<p>Expected Outcome: measurable improvements to project design</p>	<p><b>Provision of advice on science and technology to impact evaluations conducted by GEF EO</b></p> <p>Objective: Role of science is strengthened in GEF impact evaluations and GEF M&amp;E generates more reliable and systematic information on the impact of GEF support.</p> <p><b>Justification:</b> Recommended by the GEF EO, STAP and GEF Secretariat</p>	<ul style="list-style-type: none"> <li>• Ongoing time allocation from STAP Secretariat and the Panel to identify and implement impact evaluation work with the EO and GEF Secretariat.</li> </ul>	<p>Advices on periodic impact evaluations - continuing task</p>
C#6	<p>Objective: Review and revision of the 1997 policy on Targeted Research</p> <p>Expected outcome: Contribution to</p>	<p>Targeted Research modality revised and approved by the GEF Council</p> <p><b>Justification:</b> Recommended by GEF Secretariat</p> <ul style="list-style-type: none"> <li>▪ Revision of the Targeted Research modality;</li> </ul> <p>Specific contributions to OPS5 on the role of science in the GEF</p>	<ul style="list-style-type: none"> <li>• Revision of Targeted Research Modality in co-operation with the GEF Secretariat and other GEF stakeholders – November 2011</li> </ul>	<p>Dec 2011</p>

	implementation of GEF KM Strategy			
<b>C#7</b>	Objective: Preparation of Planet Under Pressure Conference, including plenary and panel discussions.	<p><b>Planet Under Pressure Conference:</b> Specific actions/decisions regarding improving role of science in GEF and the science of measuring/tracking GEBs</p> <p><b>Justification:</b> Joint collaboration with GEF Sec and Agencies in support of Rio+20 process, and improving science/policy interface in GEF programs</p> <p>Undertaking led by BD Panel Member</p>	<ul style="list-style-type: none"> <li>● Detailed session outline and agenda – July 2011</li> <li>● Organization of session, speakers, panels – August – December 2011</li> <li>● Conference – March 2012</li> </ul>	March 2012

## Cross Cutting Activities

Act. Nr.	Objective and/or Expected impacts	Output / Product	Milestones	Expected delivery
XC#4	<p><b>Objective:</b> To strengthen the enabling environment to reduce GHG emissions from deforestation and forest degradation and enhance carbon sinks from LULUCF activities</p> <p>SFM –SO<sub>2</sub>: Link</p>	<p><b>Scientific guidance to GEF Project 3449 Carbon Benefits Project (CBP): Modeling, Measurement and Monitoring (UNEP/World Bank MSP)</b></p> <p><b>Justification:</b> STAP involvement in completed TR MSP on soil organic carbon modeling and invitation to form the Independent Guidance &amp; Review Panel (IGRP): will be established and will be composed of a representative from GEF STAP (who will Chair) and four independent experienced experts in relevant fields (climate change, carbon sequestration, SLM, etc.).</p> <ul style="list-style-type: none"> <li>• Advise IA (UNEP) and Steering Committee on harmonizing the two project components – soil organic carbon modeling and IR spectroscopy</li> <li>• Panel Member to lead the Independent Guidance and Review Panel</li> </ul>	<ul style="list-style-type: none"> <li>• First Steering Committee met in May 2009. Ongoing twice-yearly task for total 3 years (LD Panel member or designated focal point).</li> </ul>	Expected project completion Sept. 2011
XC#7	<p>Cross-focal area activity: CC, BD, IW, Chemicals and LD</p> <p><b>Impact:</b> GEF investments across all focal areas are taking into account climate risks and are climate resilient in the long-term</p>	<p><b>Promoting Climate Resilience in GEF Land Degradation, Biodiversity, SFM/REDD+ and CC/LULUCF, International Waters, and Chemicals Focal Area Projects and Programs for sustained flow of GEBs</b></p> <p><b>Justification:</b> GEF projects are lacking robust framework for accounting and incorporating climate risks in the project design. STAP work to date includes advisory documents/tools on measures GEF projects can take to enhance climate resilience across the GEF portfolio (built on the results of STAP's work (GEF/C.39/Inf.18) and STAP contribution to the SPA evaluation (GEF/ME/C.39/4). It will be implemented in three stages over the course of 2 years:</p> <p>Phase 1: To review approaches and methods used by other institutions for identification and incorporation of climate risks and climate resilient measures at the project design stage followed by a workshop. Based on findings and results of the workshop, STAP and GEF Partners will assess whether and how to move forward with the subsequent phases.</p> <p><b>Requested by:</b> STAP and GEF Secretariat</p>	<p>Phase 1 (TOR, interim workshop, final report): Apr 2011 – Dec 2011;</p> <p>Phase 2 (TOR, 2 workshops, climate resilient tool, publication): Jan 2012-June 2012;</p> <p>Phase 3 (TOR, workshop, advisory document, publication): July 2012-June 2013</p>	June 2013
XC#9	<p>Objective: Peer review the outputs of the Carbon Benefits Project (CBP), particularly Component B which aims to produce a carbon and multi-focal accounting protocol that can be used to measure, monitor and verify carbon and other gains from sustainable land management and agro-forestry.</p> <p>Expected Outcome: identify project gaps on</p>	<p><b>Cross focal area advice on Sustainable Forest Management, REDD-plus, and LULUCF as a means to protect carbon stocks and reduce GHG emissions</b></p> <p>A scientific perspective on how best to deliver multiple benefits, including maximizing carbon benefits, through the GEF's SFM/REDD-plus and LULUCF projects and other focal area investments in forests and land management. To be delivered with results and lessons derived from the results of GEF Project 3449 on Carbon Benefits Project (CBP): Modeling, Measurement and Monitoring (UNEP/World Bank MSP) and further consultation</p> <p>The output will be based on the outcomes of the peer review of Component B. This could include a simplified project screening tool for ex-ante evaluation of multiple global environmental and social benefits of GEF project proposals submitted under the SFM/REDD+ Program</p> <p><b>Justification:</b> Outcomes of September 2010 STAP Workshop</p>	<ul style="list-style-type: none"> <li>• Peer review workshop – Sept. 2011</li> <li>• Final outputs (e.g. project screening tool) Feb 2012</li> </ul>	<p>2011-2012</p> <p>March 2012</p>

	monitoring and evaluating multiple global environment and social benefits of the GEF			
<b>XC#11</b>	<p>Cross-focal area activity (CC, IW, Chemicals, and BD)</p> <p><b>Impact:</b> GEF and CBD SBSTA are informed about the current knowledge about sources, fate and impacts of marine debris on GEBs with advice or options on appropriate measures</p>	<p><b>Scientific advice to GEF and CBD SBSTA on marine debris</b></p> <p><b>Justification:</b> Emerging evidence on the geographical distribution and scale of marine debris and its multiple impacts on human health, marine biodiversity, transport of persistent organic pollutants, endocrine disrupting and other chemicals, as well as impacts on marine transportation and tourism and economies, particularly those of island and coastal states, suggests that marine debris is an example of the “tragedy of the global commons”. Solving this problem requires a concerted international response at the global, regional and national levels using a holistic approach based on a life cycle approach and the use of regional strategies aimed at prevention of marine debris and based on multiple stakeholder partnership with producers, users, and end-of-life management practices.</p> <p><b>Requested by:</b> STAP Panel, CBD Secretariat, UNEP, FAO</p>	<p>TOR, workshop and Information Document for GEF Council, publication: February 2011-June 2011;</p> <p>STAP contribution to CBD SBSTA document on marine debris: June 2011-Dec 2011;</p> <p>Upon request by appropriate GEF entities: follow up to the STAP report on marine debris: May 2011-Feb 2012</p>	Feb 2012
<b>XC#12</b>	<p>Cross-focal area activity (CC, IW, Chemicals)</p> <p><b>Impact:</b> GEF is informed and takes appropriate measures in policies and projects/programs to account for benefits and avoid negative impacts of urbanization</p>	<p><b>Scientific advice to GEF on impacts of urbanization on the delivery of GEBs</b></p> <p><b>Justification:</b> Half of humanity now lives in cities and within the next two decades 60% of the world’s population will reside in urban areas. Urban growth is the highest in the developing world, Cities offer major opportunities to reduce environmental pressures, but if not properly managed can represent ever increasing threat to the global environment (GEBs). STAP’s assessment of environmental impacts and opportunities of urbanization will help to inform GEF project implementation and contribute to the development of GEF-6 strategies to properly capture opportunities and avoid negative impacts on GEBs associated with expanding urban environments.</p> <p><b>Requested by:</b> STAP Panel</p>	<p>TOR, contribution to the Planet Under Pressure 2012 Conference, workshop, Information Document for GEF Council, publication: Jan 2012-Aug 2012</p>	Aug 2012
<b>XC#13</b>	<p>Mainstream biodiversity and sustainable use into landscapes, seascapes</p> <p>Cross-focal area activity (IW &amp; BD)</p> <p><b>Impact:</b> GEF is informed about the current practice of marine spatial planning and area-based management and incorporates best practices in its projects and</p>	<p><b>STAP-CBD Technical Report (Advisory Document) on marine spatial planning</b></p> <p><b>Justification:</b> This work is responding to para 75 of CBD COP-10 decision X/29 on marine spatial planning and aims to compile and synthesize available information experiences and use of marine spatial planning, in particular on ecological, economic, social, cultural and other principles used to guide such planning and the use of area-based management tools. The results of the work are mutually useful for the GEF and CBD. This work is to be implemented on a cost-sharing basis with the CBD Secretariat.</p> <p>Supports all SOs of the IW focal area and BD SO2</p> <p><b>Requested by:</b> STAP Panel; and CBD Secretariat</p>	<p>TORs developed – June 2011</p> <p>STAP-CBD joint workshop – September 2011 TBC</p> <p>Draft advisory document – Dec 2011</p> <p>Publication - May 2012</p>	May 2012

programs			
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## Biodiversity

<b>BD#6</b>	Learning Objective (LO)1: Enhancing Impact and Results through Improved Understanding of Protected Area Management Effectiveness.	<p><b>A case study methodology</b> for application in GEF-5 for implementation of LO1; <b>Technical advice</b> on the application of the case study methodology; and Analysis of the results of case studies.</p> <p><b>Justification:</b> Requested by GEF Secretariat</p>	<ul style="list-style-type: none"> <li>• STAP advice on case study design.</li> <li>• STAP participation in relevant technical meetings and missions.</li> <li>• Analyses of case study and learning mission results.</li> </ul>	FY 12
<b>BD#7</b>	<b>Objective:</b> Enhance social impacts through Improved Understanding of the Causal Relationships between protected area management and local community welfare.	<p><b>A review of the literature</b> that synthesizes global experience with the following question: "What has been the impact of protected areas in GEF-recipient countries on human welfare in neighboring communities, and under what circumstances has the impact been positive?"</p> <p><b>Justification:</b> Requested by GEF Secretariat</p> <p>Supports LO2 of BD Focal Area Strategy</p>	<ul style="list-style-type: none"> <li>• Panel member to design TORs – May 2011;</li> <li>• STAP Secretariat set up and manage contracts – May 2011 – Dec 2011;</li> <li>• Draft report Feb 2012</li> </ul>	May 2012 <i>Note: this is a priority for FY12 in this focal area</i>
<b>BD#9</b>	<b>Objective:</b> Support development of Intergovernmental science-policy platform on biodiversity and ecosystem services	<p><b>IPBES</b> – Participation in planning group and plenary meetings; Participation in refining the terms of reference of individual assessments, contribution to specific assessments.</p> <p><b>Justification:</b> GEF providing financial resources for IPBES; ensure assessments are of relevance to GEF focal area programs.</p>	<ul style="list-style-type: none"> <li>• Planning meetings – June, August 2011</li> <li>• Plenary meetings – October 2011</li> </ul>	Ongoing until end 2012

## Climate Change

Act. Nr.	Objective and/or Expected impacts	Output / Product	Milestones	Expected Delivery
<b>CC#6</b>	<p>CC SO-2: Promote market transformation for energy efficiency in industry and building sector</p> <p>CC SO-3: Promote investment in renewable energy technologies</p> <p><b>Impact:</b> All GEF EE and RE projects properly account and report on GHG emission</p>	<p><b>Methodology for measuring the GHG impact of energy efficiency and renewable energy GEF projects</b></p> <p><b>Justification:</b> The update of the existing GEF GHG methodology for energy efficiency and renewable energy projects (GEF/C.33/Inf.18) is urgently needed. The study will provide gap analysis of the existing GEF methodology and other available outside the GEF tools, develop an algorithm for calculating the GHG impacts of EE and RE projects and provide sufficient information on the development of baselines and GHG reporting. Specific efforts will be taken to account for impacts of capacity/institutional building activities and co-benefits</p>	TOR, 2 workshops, Manual, publication: Jun 2011-Jun 2012	June 2012 <i>Note: this is a priority for FY12 in this focal area</i>



	<i>reductions</i>	<b>Requested by:</b> GEF Secretariat		
<b>CC#7</b>	<p>All SOs of CC focal area</p> <p><b>Impact:</b> GEF is provided with the authoritative review of the current climate change mitigation science and takes this evidence into account in developing, monitoring and evaluating projects/programs and forward planning for GEF-6</p>	<p><b>Technical Report on climate change mitigation science</b></p> <p><b>Justification:</b> Climate change science is a dynamic field with multiple assessment and studies coming every year. The STAP report will provide an authoritative review of the most up-to-date scientific evidence on climate change mitigation with specific recommendations for GEF-5 and beyond towards framing climate change strategies for GEF-6</p> <p>[On hold pending further discussion with GEF Secretariat and Agencies]</p> <p><b>Justification:</b> requested by the STAP</p>	TOR, workshop, Technical Report: Aug 2011-Dec 2011	Dec 2011

### International Waters

Act. Nr.	Objective and/or Expected impacts	Output / Product	Milestones	Expected delivery
<b>IW#6</b>	<b>Objective:</b> Improved understanding of the role of healthy oceans as a net carbon sink	<p><b>Review paper on restoring healthy oceans.</b> An overview and summary of recent work on assessing the role of restored/healthy oceans as a net carbon sink, including consideration of mangrove replanting, reducing hypoxic zones and geo-engineering options such as iron fertilization of the oceans with special reference to co-benefits including restoring fish and shellfish stocks</p> <p><b>Justification:</b> UNDP request Supports IW Focal Area Objective 2.</p> <p>A better understanding of the potential and magnitude of restored/healthy oceans to function as carbon sinks (or not) while enhancing or, at worst, not compromising the biodiversity and ecosystem services of the oceans. This increased understanding could be used to develop projects that seek to protect and restore "blue carbon".</p>	<ul style="list-style-type: none"> <li>Panel member to design ToR for analysis (May 2011)</li> <li>Summarize IUCN and other recent studies on blue forests for GEF-IW (June - August 2011)</li> </ul>	Publication by Oct 2011
<b>IW#7</b>	<b>Objective:</b> Scientific advisory support to project evaluation	<p><b>Advice as member of IW Impact Study Technical Advisory Group Membership</b></p> <p>Scientific support to GEF-EO for IW Impact Study</p> <p><b>Justification:</b> Evaluation Office request</p>	<ul style="list-style-type: none"> <li>STAP member participation as member of Impact Study Technical Advisory group, with special reference to the case study on South China Sea GEF projects</li> </ul>	January 2010 to May 2012
<b>IW#8</b>	<b>Objective:</b> Improved understanding of the global nitrogen cycle, its disruption,	<p><b>Global Nitrogen Cycle</b></p> <p>Global nitrogen cycle disruption is considered the second most threatening Earth system process after loss of biodiversity (Rockstrom's et al, 2009). Following from recent STAP</p>	<ul style="list-style-type: none"> <li>Develop TORs</li> <li>Prepare discussion papers/draft of GEF-</li> </ul>	July 2011 – June 2012

	and potential strategies to address this challenge	advisory work on hypoxia, an improved understanding of the causes, impacts, and strategies to address global nitrogen cycle disruption is needed – to assist GEF Partners in providing more targeted and efficient support to countries to reverse ongoing trends.  <b>Justification:</b> GEF Secretariat request	STAP document <ul style="list-style-type: none"> <li>Organize review workshop (10-15 experts) to critique</li> <li>Finalize report, publish</li> </ul>	
<b>IW#10 (+BD)</b>	<b>Objective:</b> Extend STAP Certification advisory products by adding an addendum on fisheries certification	<b>Fisheries Certification</b>  <b>Justification:</b> based on discussions at UNIDO STAP Meeting March 2011  <ul style="list-style-type: none"> <li>Advisory report targeted at GEF project developers and agencies.</li> <li>Development of GEF advice on fisheries certification derived from the evidence base for certification by a meta-analysis of fisheries certification performance</li> <li>Collaboration between IW and BD Panel Members</li> </ul>	<ul style="list-style-type: none"> <li>STAP Sec, STAP Panel member to draft ToR</li> <li>Commissioned study, Panel and expert peer review</li> <li>STAP Sec support in publication</li> </ul>	STAP Advisory paper -March 2012

### Land Degradation

Act. Nr.	Objective and/or Expected impacts	Output / Product	Milestones	Expected delivery
<b>LD#5</b>	<p><b>Objective:</b> Improve quality of indicators in the GEF-5 land degradation strategy-</p> <p><b>Outcome:</b> Improved quality of land degradation indicators to:</p> <ul style="list-style-type: none"> <li>(1) Inform GEF investments</li> <li>(2) Improve GEF resource allocation to affected UNCCD countries</li> <li>(3) Harmonize UNCCD indicators with the GEF land degradation strategy</li> </ul>	<p><b>Advice on indicators to inform GEF investments in the land degradation focal area.</b></p> <p><b>Justification:</b> The GEF Secretariat requested assistance to strengthen the global benefits index (GBI) of the land degradation focal area. STAP is well placed to do so, given its experience in reviewing the scientific rationale of the GBI for GEF-5. The GEF Secretariat also asked STAP to work with UNCCD on the refinement of the set of impact indicators, and provide scientific guidance. In doing so, STAP was asked to contribute to the coherence between UNCCD's indicators and the results based management indicators of the land degradation portfolio.</p> <p>The outputs are as follows:</p> <ul style="list-style-type: none"> <li>(1) An improved land degradation global benefits index in the STAR.</li> <li>(2) Harmonized indicators between indicators used by the GEF, and by the UNCCD and its national parties.</li> </ul> <p><b>Linked to:</b> LD Objective 4 – “Increase capacity to apply adaptive management tools in SLM”</p>	<p>Strengthening GBI for GEF-6-</p> <ul style="list-style-type: none"> <li>Small workshop – July 2012</li> <li>Draft report – August 2012</li> <li>Completed and peer reviewed report on improved global benefits index – December 2012 (tentatively January 2013)</li> </ul> <p>UNCCD impact indicators- Reviews of UNCCD impact indicator papers (as needed) – July 2011 to September 2011</p>	2011 – 2013  <i>Note: this is a priority for FY12 in this focal area</i>
<b>LD#6</b>	<b>Objective:</b> Strengthen the results based management of the land degradation	<b>Advice on portfolio monitoring</b>  <b>Justification:</b> As the GEF Secretariat develops further its work plan on results based	Strengthened methodology for portfolio monitoring learning review	January 2012

	<p>strategy through portfolio monitoring tools</p> <p><b>Outcome:</b> Improved methods to collect and report on land degradation outcome and output indicators as agreed in the GEF-5 Programming document</p>	<p>management and knowledge management, STAP could help strengthen the land degradation's portfolio monitoring. The output could include advice on harmonizing the land degradation "learning objectives" with the corporate results based management and knowledge management.</p> <p><b>Linked to:</b> The GEF Policy on "Results-Based Management and Knowledge Management Work Plan for GEF-5"</p>		
<b>LD#7</b>	<p><b>Objective:</b> Organic matter management for enhanced delivery of multiple global environment benefits and ecosystem services</p> <p><b>Outcome:</b> Strengthen the knowledge basis of project developers on how soil organic matter management contributes to carbon sequestration, and multiple global environment benefits</p>	<p><b>Advice on organic matter and its role in carbon sequestration</b></p> <p><b>Justification:</b> The GEF-5 strategy calls for maintaining or improving flows of agro-ecosystem services to sustain livelihoods of local communities (Objective 1). The expected project outputs include reduced greenhouse gas emissions from agricultural (crop and livestock) activities.</p> <p>Through this activity, STAP plans to develop advice on organic matter and its role in carbon sequestration, and water and nutrient use efficiency. In particular, STAP seeks to highlight this important relationship by synthesizing the scientific knowledge, and build on project developers' knowledge and expertise in establishing a scientific rationale of how soil organic matter contributes to multiple global environment benefits and ecosystem services. Therefore, this activity will not overlap with the Carbon Benefits Project which aims to develop a methodology to model, measure, and monitor carbon and greenhouse gas benefits in GEF projects. The advice is expected to contribute to designing projects that target agroecosystem services and livelihoods (LD Objective 1).</p> <p><b>Linked to:</b> LD Objective 1 Maintain or improve flows of agro-ecosystem services to sustain livelihoods of local communities</p>	<ul style="list-style-type: none"> <li>• Small workshop – January 2012</li> <li>• Draft report – March 2012</li> <li>• Final report – June 2012</li> </ul>	2011-2012
<b>LD#8</b>	<p><b>Objective:</b> Valuation of land-based ecosystem services to provide rationale for SLM approaches and technologies (UNCCD COP 10 and Scientific Conference)</p> <p><b>Outcome:</b> Strengthen the basis of the GEF-6 strategy based on inputs from the scientific community and policy makers (UNCCD COP 10)</p>	<p><b>A scoping study on valuing land-based ecosystem services</b></p> <p><b>Justification:</b> The GEF-5 (and GEF-4) strategy is based on the Millennium Ecosystem Assessment (MA). However, the scientific and policy communities recognize the MA falls short of valuing ecosystem services (biological, physical, and social changes).</p> <p>Considering further what analytical tools could be used to monitor and evaluate ecosystem services delivered through SLM interventions, can help strengthen the land degradation's portfolio rationale of delivering global environment benefits. Furthermore, monitoring and evaluating ecosystem services can contribute to measuring the portfolio's results.</p> <p>Contribute to UNCCD's Scientific Conference (2012) on "Economic Assessment of Desertification, sustainable land management and resilience of arid, semi-arid and dry sub-humid areas".</p>	<ul style="list-style-type: none"> <li>• Preliminary report – September 2011</li> <li>• Presentation of preliminary report to policy makers at UNCCD COP 10– October 2011</li> <li>• Comprehensive draft report– March 2012</li> <li>• Final report – June 2012</li> <li>• Participation in the preparatory activities for the UNCCD 2nd Scientific Conference</li> </ul>	2011-2012

		<b>Linked to:</b> UNCCD COP 10 and UNCCD's Second Scientific Conference		
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## Chemicals Management

Act. Nr.	Objective and/or Expected impacts	Output / Product	Milestones	Expected delivery
<b>POPS#4<sup>2</sup></b>	<p>POPs-SO1: Phase out POPs and reduce POPs releases, SO3: Pilot sound chemicals management and mercury reduction, and SO4: POPs enabling activities</p> <p><b>Impact:</b> GEF is informed and properly uses the most cost-effective tools and methods for POPs monitoring and measurements</p>	<p><b>Advisory Document on POPs monitoring and measurements</b></p> <p><b>Justification:</b> Developing countries have significant capacity gaps in monitoring and measurements of POPs, particularly recently added to the Stockholm Convention POPs. With the increased number of POPs regulated by the Convention, these gaps may become detrimental for those countries to comply with Convention requirements. Two activities will be implemented:</p> <ul style="list-style-type: none"> <li>- Commissioning and conducting desktop study proposing the most cost-effective analytical and policy tools for POPs analyses and monitoring including new POPs;</li> <li>- Advisory services provided to UNIDO GEF project #4410</li> </ul> <p><b>Requested by:</b> GEF Secretariat, STAP and UNIDO</p>	<p>TOR, workshop, Advisory Document, publication: Jun 2011- Jun 2012;</p> <p>TOR, participation at meetings upon request, review of Guidelines for NIP update taking into account new POPs: Jun 2011-Jun 2013</p>	June 2013

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In FY12, STAP will also continue working on the finalization of the two advisory documents from STAP WP FY10 in the area of chemicals and POPs: XC#6: Science-based document on emerging chemicals in developing countries and policy advice for GEF-5 and beyond; POPS#1: Practice guide on combustion and emerging non-combustion technologies for POPs in developing countries (consists of two parts).

## ANNEX 1. STAP Work Program FY11 record of achievement

### Corporate work

<b>ACT. Nr.</b>	<b>Output / Product</b>	<b>Status</b>
<b>C#1</b>	Analysis of GEF portfolio in each GEF Work Program for GEF Council	Ongoing task
<b>C#3</b>	STAP expert network access established and populated accessible through the STAP website	Internal listings generated by Panel Members and external network organizations used as resource for selection of experts. Accessibility under review; continuing task
<b>C#4</b>	Advice on how to strengthen social and gender components of GEF projects and programs	Cancelled. Insufficient expertise on STAP
<b>C#5</b>	Provision of advice on experimental and quasi-experimental project designs	Paper to be completed in May 2011, and an accompanying presentation to be made to the GEF Agencies and GEF Secretariat in May 2011.

### Cross-Cutting work

<b>ACT. Nr.</b>	<b>Output / Product</b>	<b>Status</b>
<b>XC#4</b>	Scientific guidance to GEF Project 3449 Carbon Benefits Project (CBP): Modeling, Measurement and Monitoring (UNEP/World Bank MSP)	STAP continues to provide advice through the Steering Committee. The Committee met in September 2010, and agreed the project is current with all its deliverables. Several follow-up actions were identified at the meeting, including testing the carbon benefits project as a tool to gain the required landscape carbon information for a specific set of existing GEF projects so as to understand the needs of potential users. STAP may invite the project managers to a one day meeting to discuss potential gaps, and follow-on activities on multiple global environmental benefits that STAP could contribute towards in 2012.
<b>XC#5</b>	Scientific guidance to GEF Project 3224 Establishing Sustainable Liquid Biofuels Production Worldwide (A Targeted Research Project)	The project has produced a draft biofuel screening tool, which was shared with STAP – as a member of the Steering Committee. Completed.
<b>XC#7</b>	Integrating Mitigation/Adaptation Synergies and Promoting Climate Resilience in GEF Land Degradation, Biodiversity, SFM/REDD+ and CC/LULUCF and International Waters Focal Area Projects and Programs	Report “Scientific rationale for reducing climate change risks and enhancing resilience in GEF focal areas for sustained delivery of GEBs” submitted as Information Paper for the GEF Council (GEF/C.39/Inf.18). Comments and recommendations provided to the GEF EO on SPA evaluation (GEF/ME/C.39/4). The first phase of climate resilience review commissioned with expected delivery date in August 2011; ongoing task.
<b>XC#8</b>	Advisory paper on endocrine disruptors	TOR has been drafted. The work has been put on hold to be

	Review of policies, innovative interventions, technologies and constraints for reducing releases of endocrine disrupters to aquatic environments.	better integrated in the ongoing work on emerging chemicals management issues (ECMIs) also considering endocrine disruptors. ECMI work is expected to be completed in the fall 2011 and activity could start before Dec 2011.
<b>XC#9</b>	Cross focal area advice on Sustainable Forest Management, REDD-plus, and LULUCF as a means to protect carbon stocks and reduce GHG emissions	A workshop was held September 2010. STAP plans to hold a one day meeting with project managers from the Carbon and Benefits Project to identify potential gaps on measuring multiple global environmental benefits that STAP could help address.

### Biodiversity

<b>ACT. Nr.</b>	<b>Output / Product</b>	<b>Status</b>
<b>BD#6</b>	<b>A case study methodology</b> for application in GEF-5 for implementation of LO1; <b>Technical advice</b> on the application of the case study methodology; and Analysis of the results of case studies	Case study design was completed and a mission successfully undertaken in November 2010 – with a report finalized in Feb. 2011. An important result was the GEF Sec decision to develop precise learning objectives in all focal areas in conjunction with STAP.
<b>BD#7</b>	<b>A review of the literature</b> that synthesizes global experience with the following question: "What are the human well-being costs and benefits of protected areas, how are these distributed, and how do they vary with governance, resource tenure arrangements, and site characteristics?"	An initial scoping workshop on protected areas has been held in November 2010. TORs have been developed and the study will be carried out in FY 12.
<b>BD#8</b>	<b>Ongoing learning about popular approaches</b> , including those identified under LO3, supported through advice on experimental and quasi-experimental project designs (as described under C#5).	Generic method developed by STAP for a number of Advisory documents. BD#7 above will follow this methodology. In addition, Generic guidelines are in preparation to support Agencies in incorporating experimental design or quasi experimental design into GEF projects (FY 12). Now included as standard approach in much of STAP's work. Completed.

### Climate Change

<b>ACT. Nr.</b>	<b>Output / Product</b>	<b>Status</b>
<b>CC#5</b>	1. Methodology for measuring GHG impact of transport projects funded by GEF 2. White Paper on low carbon sustainable transport	The methodology will be published as a user-friendly manual.  The sustainable transport was completed and a summary of this work distributed to the GEF Council in November 2010 (GEF/C.39/Inf.16). The final print publication has now been completed, and will be distributed via a variety of media including web-based and on a CD. Completed.

### International Waters

<b>ACT. Nr.</b>	<b>Output / Product</b>	<b>Status</b>

<b>IW#2</b>	STAP report on Hypoxia	This work is in the final stages of completion. A summary of outcomes and recommendations will be presented to Council in May 2011. The hypoxia report will subsequently be published as a formal STAP advisory document by September 2011. Substantive work completed.
<b>IW#5</b>	Review of Areas beyond national jurisdiction	STAP participated in deliberations to develop GEF priorities for protecting marine biodiversity in areas beyond national jurisdiction at the meeting organized by GEF and FAO in November 2010. STAP will contribute to this effort through upcoming work on marine spatial planning together with the CBD Secretariat. Completed.
<b>IW#6</b>	Advisory paper on restoring healthy oceans	Terms of reference are in development. Work is expected to get underway in FY12
<b>IW#7</b>	Advice as member of IW Impact Study Technical Advisory Group Membership	STAP continues to participate as a member of the Technical Advisory Group for this Impact Evaluation led by the Evaluation Office.

#### **Persistent Organic Pollutants**

<b>ACT. Nr.</b>	<b>Output</b>	<b>Status</b>
<b>POPS #4</b>	Advice on POPs monitoring and measurements	This work was re-scheduled to start in June 2011. TORs have been completed and work is now underway – and has been revised as such in the STAP FY12 work program (POPs#4).

#### **Land Degradation**

<b>ACT. Nr.</b>	<b>Output / Product</b>	<b>Status</b>
<b>LD#5</b>	Advice on Learning Objective #2	Redefined – Refer to STAP work program FY12
<b>LD#6</b>	Advice on indicators to inform GEF investments in the land degradation focal area.	Redefined – Refer to the STAP work program FY12