

## 2012 Technical Report per Activity

Each Program Participant must provide a small remark against each activity/deliverable to indicate the status of the activity (2-4 sentences required per activity) using the form below. Updated data from the current partners is also required.

### CCAFS Center Led Activities CIFOR - Center for International Forestry Research

Activity No. 42															
<b>Activity title</b>	On-farm trials on strategies to increase system productivity, soil quality and carbon sequestration in East Africa.														
<b>CCAFS Objective</b> (select from drop list)	3.3 Test and identify desirable on-farm practices and their landscape-level implications	<b>CCAFS Milestone No.</b> (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)	3.3.1 2012 (1)												
<b>Activity objectives</b> (what the activity aims to achieve)	<b>Objective 1</b>	The objective of this work is to generate new data for better GHG inventories in farming landscapes in East Africa and to facilitate better farm scale assessments of GHG emissions.													
<b>Activity status</b>	Partially completed														
<b>Insert a small remark to indicate the status of the activity.</b> (2-4 sentences required per activity)	The activity is ongoing. Preliminary literature syntheses have been completed and are either published or in the process of being published. Staff have been hired and field work is ongoing. A new partnership is being developed with the Biosciences Center at ILRI														
<b>Deliverables status</b> (You may add any unexpected deliverable)	<b>Type</b>	<b>Description</b>	<b>Year</b>	<b>Status</b>	<b>Format</b>										
	Reports, publications	Produce 3 manuscripts for soil gas emissions in land rehabilitation trials.	2012	Completed	Document (*.doc, *.odt, *.pdf)										
	Capacity	Develop a new PhD project and begin field work in W. Kenya sites	2012	Completed	Select a format										
<b>Current Partners</b>	<table border="1"> <thead> <tr> <th>Acronym</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>ICRAF</td> <td>World Agroforestry Center</td> </tr> <tr> <td>CG - CGIAR Center</td> <td></td> </tr> <tr> <th>Contact Point Full Name</th> <th>Contact Point Email</th> </tr> <tr> <td>Henry Neufeldt</td> <td>H.neufeldt@cgiar.org</td> </tr> </tbody> </table>					Acronym	Name	ICRAF	World Agroforestry Center	CG - CGIAR Center		Contact Point Full Name	Contact Point Email	Henry Neufeldt	H.neufeldt@cgiar.org
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ICRAF	World Agroforestry Center														
CG - CGIAR Center															
Contact Point Full Name	Contact Point Email														
Henry Neufeldt	H.neufeldt@cgiar.org														

Activity No. 283																									
<b>Activity title</b>	On-farm trials on strategies to increase system productivity, soil quality and carbon sequestration in the IGP.																								
<b>CCAFS Objective</b> (select from drop list)	3.3 Test and identify desirable on-farm practices and their landscape-level implications	<b>CCAFS Milestone No.</b> (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)	3.3.1 2012 (1)																						
<b>Activity objectives</b> (what the activity aims to achieve)	<b>Objective 1</b>	Assisten natural regeneration is being proposed in S. Asia as a means of restroing degraded land ans sequestering C. The objective of this work is to generate new data for better GHG inventories in farming landscapes in and to facilitate better farm scale assessments of GHG emissions.																							
<b>Activity status</b>	Partially completed																								
<b>Insert a small remark to indicate the status of the activity.</b> (2-4 sentences required per activity)	The methods manual has been completed. Due to personal reasons with a key partner, field work was delayed.																								
<b>Deliverables status</b> (You may add any unexpected deliverable)	<b>Type</b>	<b>Description</b>	<b>Year</b>	<b>Status</b>	<b>Format</b>																				
	Select a data type	Collect dataset on farmer assisted natural regeneration on the IGP.		Partially completed	Document (*.doc, *.odt, *.pdf)																				
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Activity No. 279				
<b>Activity title</b>		Studies on management effects on GHG emissions, especially nitrous oxide, in Indonesia.		
<b>CCAFS Objective</b> <i>(select from drop list)</i>		3.3 Test and identify desirable on-farm practices and their landscape-level implications	<b>CCAFS Milestone No.</b> <i>(select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)</i>	3.3.1 2012 (1)
<b>Activity objectives</b> <i>(what the activity aims to achieve)</i>	<b>Objective 1</b>	The objective of this work is to generate new data for better GHG inventories in tropical wetlands to facilitate better assessments of GHG emissions associated with LUC to oil palm - one of the fastest expanding crops in the tropics.		
<b>Activity status</b>		<div>Select a status</div>		
<b>Insert a small remark to indicate the status of the activity.</b> <i>(2-4 sentences required per activity)</i>		Originally we planned to submit a paper on N2O and that is still in the process, but we had an opportunity to submit another on CH4, so that pushed the deliverable back a bit. The N2O paper is in its final phase. The special issue in which the peatland conversoin paper will appear has been delayed, but our paper was submitted on time.		
<b>Deliverables status</b> <i>(You may add any unexpected deliverable)</i>		<b>Type</b>  <div>Reports, publications</div>	<b>Description</b>  <div>One paper submitted on N2O emissions and land-use change and one paper submitted on peatland conversion to plantation agriculture</div>	<b>Year</b>  <div></div>
			<b>Status</b>  <div>Completed</div>	<b>Format</b>  <div>Document (*.doc, *.odt, *.pdf)</div>
<b>Current Partners</b>		<div> <div>CG - CGIAR Center</div> <div> <div>Acronym</div> <div>ICRAF</div> </div> <div> <div>Name</div> <div>World Agroforestry Center</div> </div> <div> <div>Contact Point Full Name</div> <div>meine van Noordwijk</div> </div> <div> <div>Contact Point Email</div> <div>m.vannoordwijk@cgiar.org</div> </div> </div>		
		<div> <div>AI - Academic Institution</div> <div> <div>Acronym</div> <div></div> </div> <div> <div>Name</div> <div>Univ Aberdeen</div> </div> <div> <div>Contact Point Full Name</div> <div>Dr. Jo Smith</div> </div> <div> <div>Contact Point Email</div> <div>jo.smith@abdn.ac.uk</div> </div> </div>		
		<div> <div>End_users - End users</div> <div> <div>Acronym</div> <div>IPCC</div> </div> <div> <div>Name</div> <div>Intergovernmental Panel on Climate Change</div> </div> <div> <div>Contact Point Full Name</div> <div>Taka Hiraishi</div> </div> <div> <div>Contact Point Email</div> <div>hiraishi@iges.or.jp</div> </div> </div>		
		<div> <div>- National agricultural research and extension :</div> <div> <div>Acronym</div> <div>ISRI</div> </div> <div> <div>Name</div> <div>Indonesian Soils Research Institute</div> </div> <div> <div>Contact Point Full Name</div> <div>Fahmuddin Agus</div> </div> <div> <div>Contact Point Email</div> <div>fahmuddin_agus@yahoo.com</div> </div> </div>		

## 2012 summary report of activities and deliverables by Output level

Each Program Participant must prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives. Length is dependent on budget size so please refer to the table on the explanatory notes.

### CCAFS Center Led Activities CIFOR - Center for International Forestry Research

#### Theme 3. Pro-Poor Climate Change Mitigation

##### Objective 3.3 Test and identify desirable on-farm practices and their landscape-level implications

Outcome 3.3: Key agencies dealing with climate mitigation in at least 10 countries promoting technically and economically feasible agricultural mitigation practices that have co-benefits for resource-poor farmers, particularly vulnerable groups and women

##### Output 3.3.1 Analysis of mitigation biophysical and socioeconomic feasibility for different agricultural practices and regions, and impacts on emissions, livelihoods and food security

*Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives*

Three students are partially supported in Indonesia through CCAFS, one new student was hired in Kenya and at the end of the year one postdoc was hired in India. We produced two of the planned outputs:

The third manuscript was not completed.

## List of publications that acknowledge CCAFS support

(a) Each Program Participant must list all publications that acknowledge CCAFS support. Only include publications that came out in final version in the

(b) Please try to format references in the Harvard style. A clear guide can be found here:

<http://libweb.anglia.ac.uk/referencing/harvard.htm>

(c) For journal articles, please indicate all of the references that are "green open access" with a single asterisk and those that are "gold open access" with a

(d) For all publications that are up online, please provide a web link if possible. This will help us to advertise your work more widely.

### CCAFS Center Led Activities

#### CIFOR - Center for International Forestry Research

Publication 1	<div>Type</div> <div>Journal papers</div>	<div>Citation identifier</div>
	<div>Citation</div> <div>Hergoualc'h K., and L.V. Verchot. 2012. Changes in soil CH<sub>4</sub> fluxes from the conversion of tropical peat swamp forests: a meta-analysis. Journal of Integrative Environmental Sciences 9: 93–101.</div>	
Publication 2	<div>Type</div> <div>Working papers</div>	<div>Citation identifier</div>
	<div>Citation</div> <div>Hergoualc'h K., Smith J., Verchot L.V.. 2012. Intact peat swamp forest conversion into oil palm plantation: the effect on soil CO<sub>2</sub> fluxes in Jambi, Sumatra. Report to IPCC</div>	



## 2012 Case studies

Number of case studies to be submitted is dependent on budget size so please refer to the table on the explanatory notes. Each case study should be about half a page, and Program Participants are expected to build a portfolio of case studies over the years that demonstrate all different types.

### CCAFS Center Led Activities

**CIFOR - Center for International Forestry Research**

## 2012 Outcome report

Frequency of reporting outcomes is dependent on budget size so please refer to the table on the explanatory notes. (max 1 page)

### CCAFS Center Led Activities CIFOR - Center for International Forestry Research

#### OUTCOME 1

What is the outcome of the research (use of research results by non-research partners)?

Better national inventories of GHG emissions. Generally other types of users take up IPCC emission factors for various analyses and planning processes. These factors are particularly useful to aid agencies that are required to report in the atmospheric impact of development projects.

What outputs produced in the three preceding years resulted in that outcome?

Several datasets have been produced in tropical peatlands over the past years. We synthesized this work this year and submitted it to IPCC.

What partners helped in producing the outcome?

University of Aberdeen, ICRAF and to some extent the Indonesian Soils Research Institute

Who used the output?

Tropical countries with peatlands will use the outputs for biannual reporting to the UNFCCC  
The scientific community will use these results in the development of syntheses, models and tools

How was the output used?

National greenhouse gas inventories

What is the evidence for this outcome: Specifically, what kind of study was conducted to show the connection between the research and the outcome? Who conducted it? Please provide a reference or source.

Second order draft was published online in early 2013

## Gender and Social Differentiation related activities summary report - 2012

CRPs that have presented their Gender Strategy to the Consortium in 2012 should show progress in 2013 in relation to implementing the Strategy. Therefore it is expected from Program Participants that findings of gender and social differentiation activities and their significance to be referred in this summary report. It is essential to relate progress towards outcomes to the baseline gender-differentiated conditions being used to measure change. This report should also refer specifically to what is being learnt about gender and how this knowledge is being used to inform research priority-setting and approach. If none or few of your activities integrate gender please explain why it is not relevant to your research portfolio.

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### CCAFS Center Led Activities CIFOR - Center for International Forestry Research

This work is purely biophysical. The only gender issues addressed here is through training women scientists (3)