



## Center for International Forestry Research

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24 March 2014

Dr. Dennis Del Castillo Torres  
The Peruvian Amazon Research Institute (IIAP)  
Av. J Abelardo. Quiñones km. 2.5  
San Juan Bautista - Maynas  
Loreto - Perú

Dear Dr. Dennis del Castillo Torres,

Letter of Agreement (LoA) for Research Project entitled "Sustainable Wetlands Adaptation and Mitigation Program (SWAMP)"

The Center for International Forestry Research ("CIFOR"), in close collaboration with its partners, has submitted to USAID a proposal entitled "Sustainable Wetlands Adaptation and Mitigation Program (SWAMP)", described in Annex 1 of this Letter of Agreement ("**Research Project**"). The Research Project has now been accepted for funding, and CIFOR is pleased to grant to The Peruvian Amazon Research Institute ("**Subgrantee**") the sum of USD 19,600 ("**Subgrant Funds**") in accordance with the following terms and conditions:-

1. **Terms:** The Subgrant Funds shall be administered in accordance with the terms of this LoA and the General Terms and Conditions under **Annex 2** which are incorporated by reference herein and form an integral part of this LoA. Unless defined otherwise herein, capitalised terms are defined in Annex 2 of this Letter of Agreement.
2. **Duration:** The duration of this LoA is from 31 March 2014 to 28 February 2015, subject to extension or earlier termination under the General Terms and Conditions.
3. **Schedule of disbursements:** Disbursements of Subgrant Funds shall be made by CIFOR to the Subgrantee according to the schedule set forth below after receipt and approval of Subgrantee invoice by CIFOR:

Terms and Schedule	Amount (in USD)
Upon receipt by CIFOR the signed copy of this LoA and an invoice	5,880
Upon submission and acceptance of a financial report for the first fieldwork period (March-August 2014) and an approved invoice due on 15 September 2014	7,840
Upon submission and acceptance of financial report for the third fieldwork period (September 2014 - February 2015) due on 15 March 2015.	5,880
<b>TOTAL</b>	<b>19,600</b>

4. **Banking details:** Payments to the Subgrantee shall be made to the specific bank account which will be created once the LoA is signed. The Funds provided for this LoA are to be managed by assignment.
5. **Reporting schedule:** The Subgrantee shall provide to CIFOR written project and financial reports, and any other information/report for monitoring and evaluation purposes as per the following schedule:

A. M.  
R. B.



Report Type	Reporting Period	Report Due Date
Financial Report I	March - August 2014	15 September 2014
Financial Report II	September - February 2014	15 March 2015

**Reporting format:** The Subgrantee will prepare the reports required under Clause 5 above in the format approved by the Principal Investigators jointly.

6. **Branding and communication:** In all publication and communication materials, the Subgrantee agrees to acknowledge USAID, the SWAMP project, CIFOR, and the CGIAR. CIFOR and/or its Donor reserve the right to communicate changes to its branding terms and/or guidelines from time-to-time, which shall be applicable to the Subgrantee. A copy (soft or hard) of any deliverable (publication, report, database, multi-media product, etc.) produced as a result of the Research Project shall be sent to CIFOR within thirty (30) days from the date of its publication.
7. **Authorized representatives:** The authorized representatives for **technical aspects** ("Principal Investigators") of this LoA are:

For the Subgrantee:

Name:	Dennis del Castillo Torres
Title:	Director of Programme - Senior Scientist
Address:	Av. Abelardo Quiñones km. 2.5 , San Juan Bautista, Loreto - Perú
Phone:	+51 65 266553
Fax:	+51 65 265527
Email:	ddelcastillo@iiap.org.pe

For CIFOR:

Name:	Kristell Hergoualc'h
Title:	Scientist
Address:	C/o Centro Internacional de la Papa (CIP) Av. La Molina 1895. La Molina Lima, Peru
Phone:	+51 (1) 317 5357
Fax:	+51 (1) 317 5326
Email:	k.hergoualch@cgiar.org

The authorized representatives for **financial and administrative aspects** of this Letter of Agreement are:-

For the Subgrantee:

Name:	Ing. Ronald Niceforo Trujillo Leon
Title:	Director of the General Office of Administration
Address:	Av. J. Abelardo Quiñones Km. 2.5, San Juan Bautista. Loreto - Peru
Phone:	+51 65 263009
Fax:	+51 65 265527
Email:	ronaldtrujillo97@gmail.com, dga@iiap.org.pe

For CIFOR:

Name:	Kumar Tumuluru
Title:	Director for Finance and Administration
Address:	Jalan CIFOR, Situ Gede, Bogor Barat 16115, Indonesia
Phone:	+62-0251-8622-622
Fax:	+62-0251-8622-100
Email:	k.tumuluru@cgiar.org

8. **Language:** This LoA is made in the English language.

Initials CIFOR:

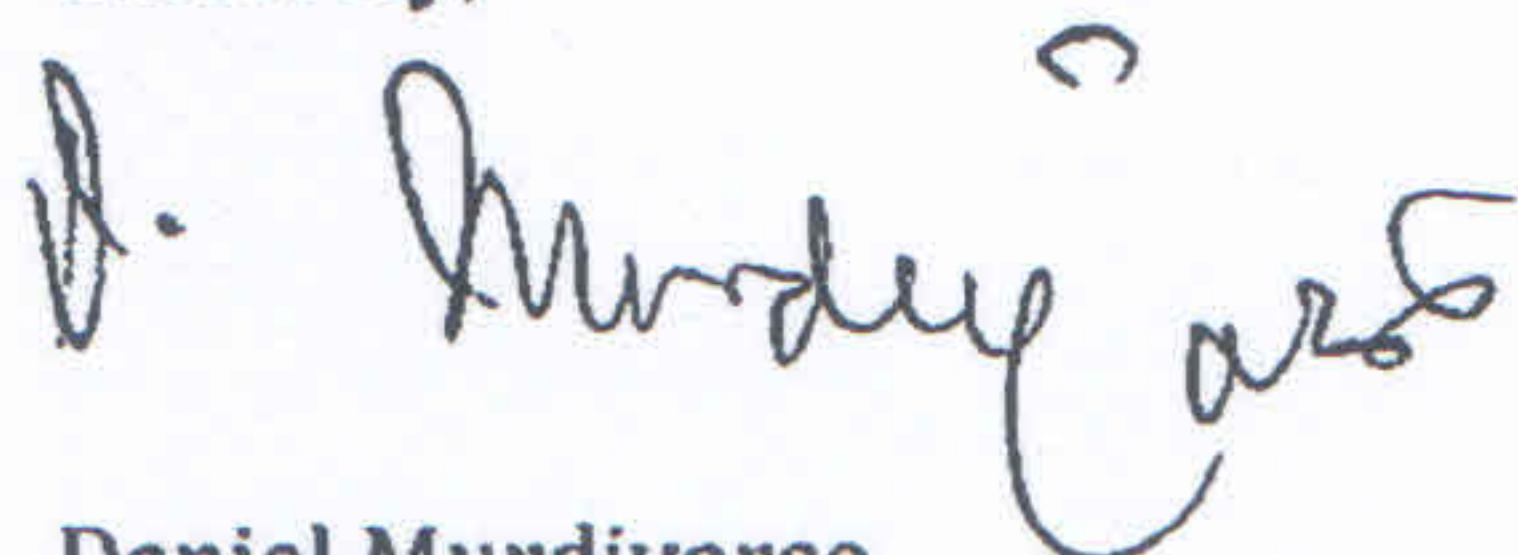
Initials IIAP:

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R.B.

If the terms of this LoA are acceptable to The Peruvian Research Institute for The Amazon (IIAP), kindly sign TWO (2) original copies, initial at the bottom of every page of this letter and send ONE (1) copy to us, for the attention of Kristell Hergoualc'h. An e-copy of your acceptance can be emailed to Ria Widjaja-Adhi ([r.widjaja-adhi@cgiar.org](mailto:r.widjaja-adhi@cgiar.org)) in the meantime.

We wish you successful implementation of the Research Project.

Sincerely,



Daniel Murdiyoso  
Principal Scientist  
Forests and Environment

Annexes:

Annex 1: Research Project

Annex 2: General Terms and Conditions (dated 10 May 2013)

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The terms and conditions of this Letter of Agreement including all its annexes referred to herein are hereby accepted by The Peruvian Amazon Research Institute (IIAP) through its authorized representative:

Name: Roger Wilder Beuzeville Zumaeta

Designation: General Manager

Signature: 

Date: 21-4-2014



Initials CIFOR:  
Initials IIAP:

*P. M.*  
*R. B.*

## ANNEX 1: RESEARCH PROJECT

### 1. Background

Carbon-rich tropical wetland ecosystems including peatlands are considered as high priorities in climate change adaptation and mitigation strategies throughout the world. The SWAMP project proposes a research/capacity building project to quantify carbon stocks, emissions, baselines, and approaches to their monitoring, reporting, and verification in forested tropical wetlands. The specific project objectives include: (1) Quantify greenhouse gas emissions arising from intact wetland forests and sites that have undergone land cover change; (2) Quantify the carbon stocks of representative tropical forested wetlands of the world and associated land uses; (3) Develop ecosystem C dynamics modeling tools suitable for tropical wetlands and scale-up measurements to landscape, province, or country scales utilizing remote sensing approaches; (4) Quantify and define roles of tropical wetland ecosystems in climate change adaptation and develop potential scenarios for their inclusion in climate change adaptive strategies; and (5) as an integral part of all research and technical transfer activities incorporate approaches to capacity building and outreach.

CIFORs support to the SWAMP Program 2013-2014 seeks to fill these objectives by understanding how peat forest degradation in the Amazon basin may affect the stocks of carbon and the exchange of greenhouse gases to the atmosphere.

### 2. Objective

The objective of the task for the IIAP assistant is to support and independently perform field and laboratory work, as part of the Ph D research project of Jeffrey van Lent. In the start-up phase the assistant will help with site selection, methodology development and land use history determination. During the year round sampling of greenhouse gas fluxes (CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O) the assistant will work and learn relevant techniques (Infrared gas analyzer, gas, soil and vegetation sampling, etc.) to be able to later perform these individually when necessary. Additionally, the assistant will perform laboratory analysis, such as weighing and drying litter/soil and could possibly assist with laboratory experiments (e.g. mineralization and nitrification potential analysis).

### 3. Activities

#### *Fieldwork.*

Assist with fieldwork on two land uses at two sites and ultimately individually lead field work campaigns. In addition to routine monthly measurements, four intensive 24 hour measurement campaigns will be done. The activities consist in:

- Monthly measuring soil respiration using the EGM-4 and simultaneously writing respiration rates in a field notebook as a backup. After each field campaign copying data logged in the EGM to Excel spreadsheets. Collecting from closed PVC chambers air samples and transferring them in glass vials for further determination of CH<sub>4</sub> and N<sub>2</sub>O concentrations by chromatography. Cleaning and evacuating glass vials before measurements.
- Measuring monthly soil temperature and water table depth at each PVC collar.
- Collecting monthly soils samples for moisture content analysis.
- Emptying litter traps and measuring water table depth biweekly.
- Recording temperature and rainfall from the weather station and annotating the values in an excel sheet.

#### *Laboratory work.*

The activities consist in:

- Assisting with laboratory work at IIAP (and later possibly CIFOR-Lima) and ultimately perform experiments individually.
- Determining fresh and dry weight of soil samples, separate roots from soil samples.
- Separating leaves, twigs and woody debris from litter samples and determine fresh and dry weight.
- Assisting with incubation of soil cores and associated experiments.

If necessary assist other students participating within the project by Jeffrey van Lent.

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Initials IIAP: *R - B*

The project areas are in the Province of Loreto, Iquitos and Province of Ucayali, Pucallpa.

#### 4. Deliverables

The following reports are prepared:

- Monthly field notebook reports summarized in a coherent manner.
  - Monthly laboratory notebook reports summarized in a coherent manner.
- These should summarize experimental setup, methods and results obtained for experiments performed in the field and in the laboratory.
- Monthly time sheet report, containing short description of activities on a daily basis.

All reports should be send to Jeffrey van Lent and Dr. Kristell Hergoualc'h.

#### 5. Timing

The period of work shall be 31 March 2014 to 28 February 2015.

#### 6. Budget

Item		Total (in USD)
Canoe (incl. life jacket and paddles)	USD 585 for 1 unit	585
Motorbike	USD 3,000 for 1 unit	3,000
Working place and use of IIAP laboratory facilities	USD 195 for 12 months	2,340
Latrine construction at degraded site	USD 1,560	1,560
Boardwalks (100 m long) material and construction at degraded and Quistococha sites	USD 1,560 for 1 unit	3,120
IIAP research assistant's salary (Nicole Mitidieri Rivera)	USD 39 for 180 days	7,020
IIAP research assistant's insurance	USD 195	195
Overhead	10%	1,425
<b>TOTAL</b>		<b>19,600</b>

In addition to this:

- Expenses related to travel, accommodation and field work of the research assistant will be reimbursed by CIFOR upon submission of receipts.
- Rental cost for the IIAP boat including driver will be paid by CIFOR at a daily rate USD 70 and rental cost for the IIAP car including driver will be paid by CIFOR at a daily rate USD 136. CIFOR will cover oil expenses.
- IIAP will contribute USD 2,984 for salary costs of some technicians who would work with Jeffrey Van Lent (CIFOR).

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Initials IIAP:

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