Module 2.4 Incorporating community based monitoring (CBM) in national (or jurisdictional) REDD+ monitoring

**Exercises**

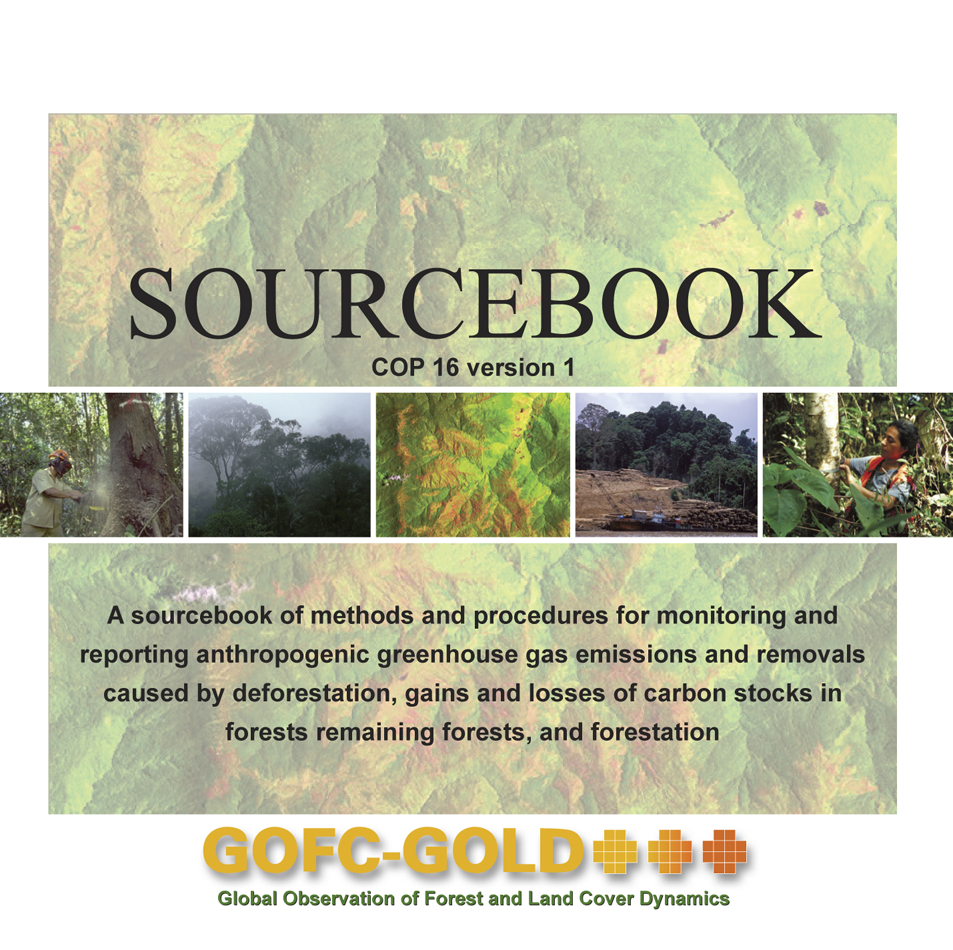
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**Exercises Module 2.4 Incorporating community based monitoring (CBM) in national (or jurisdictional) REDD+ monitoring**

**Instructions for exercise using Cybertracker**

The first step is to download Cybertracker onto a PC or laptop from the following link: <http://www.cybertracker.org/software/free-download>, and then access the REDD+ Community Monitoring Application from <http://redd.ciga.unam.mx>. The App can be found under the heading “Publications”. When you scroll down the page, you will find the App called ‘Counter en MOTOG. 2014’ which is for use on a MotoG smartphone. Versions for Samsung are available as well. Ideally the trainer should do this well in advance of the class, in order to save time and ensure that no problems arise.

The Cybertracker programme and the application can then be transferred onto any Smartphones that are available (note: different versions of the application are provided as smartphones vary in resolution). The trainer needs to check beforehand the availability of different smartphones and make sure that the right versions are available. The trainer should have already done this in advance of the class and entered the application onto his own Smartphone, so that he knows how to do this and can instruct the participants with confidence.

The trainer should also point out to the participants that the programme details (tree types etc) are specific to Mexico, but can be altered to suit different situations (instructions for working with Cybertracker can be downloaded from the web). This however takes some time and some practice, and we do not recommend that participants try to do this during the class.

Once the participants have access to the REDD+ Community Monitoring Application on their Smartphones or laptops, they can form into teams of 4. In each team, one person is responsible for ´measuring DBH´, a second for ´measuring height using the clinometer´, and third for ´measuring distance from the clinometer to the tree base´ and ´identifying the tree species´. These tasks are in quotation marks because in reality the data has been already prepared for this exercise, they simply have to call it out from the table provided. The fourth enters all the data into the database on the smartphone. The team should rotate, so that everyone has a chance to do the data entry.

The data sheets are included in this document.

Additional material: Organizing community level forest surveys for REDD+: Manual for Community Technicians. Version 5: 10 April 2014. Available at: <http://redd.ciga.unam.mx/index.php/publications> under “Manuals”.

**Data table for Cybertracker exercise**

Participants should enter their names, and use the Smartphone´s GPS to obtain the position of ´Plot 1´

Plot 1

They may invent the name of the location, the owner and write ´No phone´ for the contact

**Municipality** – Autlan de Navarro

**Accessibility** – good

**Type of forest** – oak

**Environmental impacts** – signs of fire, signs of charcoal extraction

**Observations**: fire appears to have been about 10 years ago. There is an old charcoal kiln about 50 meters from the site, evidently not currently in use

Number of saplings in the 2m circle: 4 oak, 3 pine

Table of tree measurements in 12.5m circle:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tree type | Species | Observations | DAP 1 | DAP 2 | % base | % top | distance |
| Oak | White oak |  | 20.5 |  | 10 | 40 | 14 |
| Oak | White oak |  | 48 |  | 19 | 58 | 27 |
| Pine | Duranguenses |  | 12 |  | 17 | 35 | 18 |
| Oak | ? | Dead tree | 68 |  | 30 | 90 | 18 |
| Oak | White oak |  | 15 |  | 12 | 22 | 35 |
| Alnus | jorrulensis | Near stream | 14 | 12 | 12 | 34 | 20 |
| Oak | White oak | Sprouting, appears to have been coppiced for charcoal | 9.5 | 14 | 21 | 29 | 19 |
| Alnus | jorrulensis | Near stream | 25 |  | 10 | 43 | 10 |

Plot 2

They may invent the name of the location, the owner and write ´No phone´ for the contact

**Municipality** – Autlan de Navarro

**Accessibility** – medium

**Type of forest** – pine-oak

**Environmental impacts** – grazing

**Observations**: trampling, and signs that goats use this part of the forest

Number of saplings in the 2m circle: 2 pine

Table of tree measurements in 12.5m circle:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tree type | Species | Observations | DAP 1 | DAP 2 | % base | % top | distance |
| Pine |  |  | 15 |  | 5 | 60 | 29 |
| Pine |  |  | 37 |  | 5 | 45 | 23 |
| Pine |  |  | 21 |  | 9 | 56 | 18 |
| oak |  |  | 56 |  | 18 | 35 | 47 |
| Pine |  |  | 12 |  | 15 | 44 | 20 |
| Pine |  |  | 34 |  | 15 | 47 | 25 |

Plot 3

They may invent the name of the location, the owner and write ´No phone´ for the contact

**Municipality** – Tonaya

**Accessibility** – medium

**Type of forest** – oak

**Environmental impacts** – none

**Observations**: area is part of Biosphere Reserve

Number of saplings in the 2m circle: 2 oak, 7 unidentified

Table of tree measurements in 12.5m circle:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tree type | Species | Observations | DAP 1 | DAP 2 | % base | % top | distance |
| Oak |  |  | 27 |  | 5 | 50 | 23 |
| Oak |  |  | 10 |  | 7 | 15 | 25 |
| oak |  |  | 38 |  | 15 | 45 | 36 |
| Pine |  |  | 14 |  | 10 | 31 | 33 |
| oak |  |  | 29 |  | 17 | 39 | 15 |
| Pine |  |  | 12 |  | 14 | 24 | 33 |

Plot 4

They may invent the name of the location, the owner and write ´No phone´ for the contact

**Municipality** – Tonaya

**Accessibility** – bad

**Type of forest** – pine-oak

**Environmental impacts** – none

**Observations**: Some dead trees, appear to be diseased

Number of saplings in the 2m circle: 5 pine

Table of tree measurements in 12.5m circle:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tree type | Species | Observations | DAP 1 | DAP 2 | % base | % top | distance |
| Pine |  |  | 25 |  | 5 | 50 | 23 |
| Pine |  |  | 10 |  | 7 | 15 | 25 |
| Pine |  |  | 38 |  | 15 | 45 | 36 |
| Oak |  |  | 14 |  | 10 | 31 | 33 |
| Pine |  |  | 29 |  | 17 | 39 | 15 |
| Other |  |  | 12 | 15 | 14 | 24 | 33 |