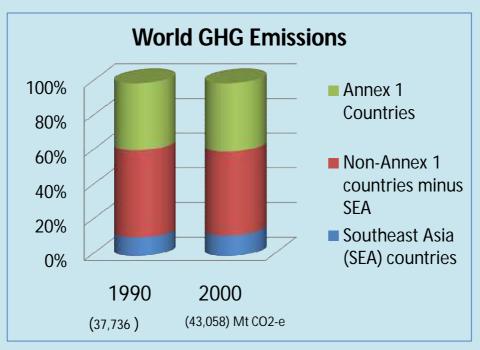
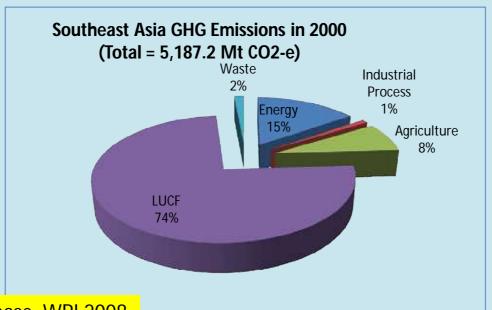
Progress in the use of ALU Software by Participating Countries to the SEA GHG Project

The 8th Workshop on GHG Inventories in Asia (WGIA8) (13-16 July 2010, Vientiane, Lao PDR)

Leandro Buendia Coordinator, SEA GHG Project





Source: CAIT Database, WRI 2008

Some Issues and Concerns

- ✓ Technical expertise already exists in the region and country level
- ✓ Insufficient documentation of methods, activity data (AD), emission factors, and processes
- ✓ Lack of AD and non-representativeness of Efs
- Needs for technical and institutional capacity building
- ✓ Lack of data and tools to move to higher tiers

Challenges

... Parties to the UNFCCC have agreed to use the IPCC Guidelines in reporting to the convention...

Non- Annex I Parties are required to use:

1. Revised 1996 IPCC Guidelines; and

Are "encouraged" to use:

- Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories (GPG2000); and
- the Good Practice Guidance for Land Use, Land-Use Change and Forestry (GPG-LULUCF).

Challenges

- The UNFCCC Software assists in implementing the Revised 1996 IPCC Guidelines
 - Tier 1 approach only
- Need to have 'tools' to assist Non-Annex 1 Parties to implement:
 - Good Practice Guidance 2000 (non-LUCF)
 - Good Practice Guidance 2003 (LUCF)
 - Inventories are neither over- nor underestimates, so far as can be judged, and in which uncertainties are reduced as far as is practicable.

Project Title: Regional capacity building for sustainable national greenhouse gas inventory management systems in Southeast Asia (SEA GHG Project)

Proponent/ Lead Implementing Agency: UNFCCC

Collaborating Institutions/Partners:

- US- Environmental Protection Agency (US-EPA)
- Colorado State University (CSU)
- Workshop on GHG Inventories in Asia (WGIA (GIO/NIES))

Participating Countries:

- 1. Cambodia
- 2. Indonesia
- 3. Lao P.D.R.
- 4. Malaysia

- 5. Philippines
- 6. Singapore *
- 7. Thailand
- 8. Viet Nam
- 9. Papua New Guinea (new)

Project Duration: 3 years (2007 – 2010)

Funding Source:

- US Government
- UNFCCC (in-kind, etc.)
- Japanese government, WGIA/GIO/NIES (funds and in-kind, etc.)
- Participating countries (in-kind)

The "Regional capacity building for sustainable national greenhouse gas inventory management systems in Southeast Asia (SEA GHG Project)" has brought in inventory tools to SEA countries to:

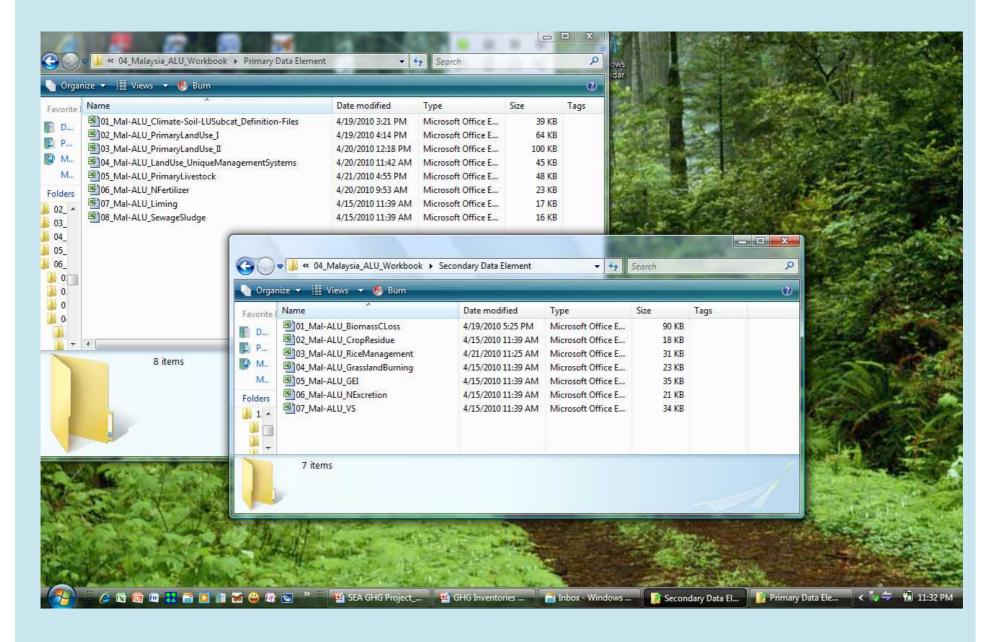
Template Workbook for National Greenhouse Gas Inventories

Agriculture and Land use Software (ALU Software) and Workbook

The ALU Software and Workbooks for AFOLU Inventories



ALU Workbooks



Milestones

June 2007, Manila, Philippines; Scoping Meeting

- introduced to the GHG Management Template Workbooks (Component 1)

April 2008, Singapore: Kick-off Workshop

- introduced to ALU software and ALU Workbook (Component 2)

May 2009, Seam Reap, Cambodia: Regional Training on ALU Software

- trained on how to accomplish the ALU Workbooks for in-country training

ALU In-Country Trainings in 2009:

- conducted hands-on training in the Philippines, October 2009; and Thailand, November 2009

ALU In-country Trainings in 2010:

- conducted hands-on training in February 2010 in Viet Nam and Cambodia; April 2010 in Malaysia and Indonesia

Follow up ALU In-country Training in 2010:

- conducted follow up training in July 2010 in Cambodia

How SEA Countries see the ALU Software?

- Module 1: Specify Activity Data
 - provides better understanding of IPCC GL data requirements
 - allows to manage data more effectively, as good practice
- Module 2: Specify Emission/Stock Change Factors
 - facilitates quick and easy access to IPCC default values
 - allows to derive country-specific emission factors from inputted data
- Module 3: Inventory Calculations; QA/QC
 - easy and straight-forward generation of reports
 - Some flexibilities in generating reports

How SEA countries see the ALU Software?

- A useful tool to better understand and implement the IPCC GLs and GPGs in Ag/Forestry sector (many find them complicated);
- A significant improvement of the UNFCCC Software; allows moving to Tier 2 approach;
- Enhances transparency to inventory process as it facilitates export and review of data inputs and assumptions;
- QA/QC feature guides and ensures that data/ assumptions are checked; and
- A useful tool for GHG inventory in REDD-related activities.

Challenges in ALU Software

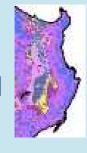
- Completing the ALU Workbook's primary and secondary data elements is difficult:
 - these are the requirements of IPCC GL and GPG;
 - however, after the in-country training, participants realized the importance of completing the ALU Workbook and are considering options for collecting data requirements;
 - Completed ALU Workbooks facilitate inputting of data into ALU Software

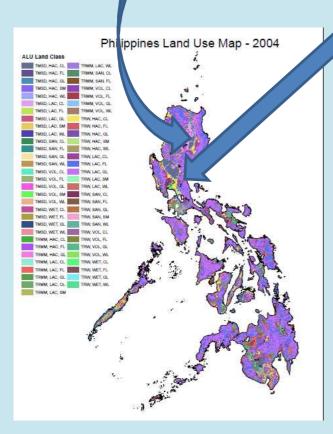
Future Activities

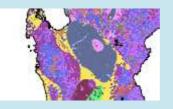
- July 2010
 - Papua New Guinea ALU Training
- October 2010 Wrap-up workshop
 - Case studies in using the ALU Software
 - Accomplished Template Workbooks
- Potential follow up meeting to discuss Phase II of SEA GHG Project

Case studies in the Philippines using ALU Software...

REDD (Region 2 Cagayan Valley)





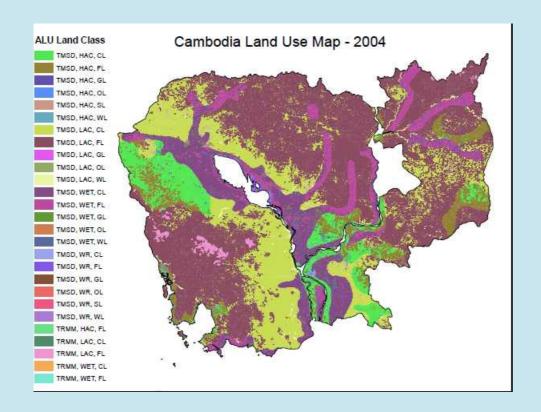


Rice residue management (Region 3 Central Luzon)

Text file (CSV) imported into ALU Software

1TRW	HAC	CL	IRPERCL	275
2TMSD	HAC	CL	IRPERCL	1305
3TMSD	LAC	CL	IRPERCL	225
4TRW	LAC	CL	IRPERCL	424
5TRW	VOL	CL	IRPERCL	9
6TRMM	HAC	CL	RFANNCL	201
7TRW	HAC	CL	RFANNCL	99540
8TMSD	HAC	CL	RFANNCL	304928
9TRMM	LAC	CL	RFANNCL	28569
10TMSD	LAC	CL	RFANNCL	229727
11TRW	LAC	CL	RFANNCL	282765
12TRW	VOL	CL	RFANNCL	933
13TRMM	HAC	CL	OTHERCL	276
14TRW	HAC	CL	OTHERCL	76033
15TMSD	HAC	CL	OTHERCL	92260
16TRMM	LAC	CL	OTHERCL	52324
17TMSD	LAC	CL	OTHERCL	152261

Case study on REDD and rice cultivation in Cambodia using ALU Software ...



Text file (CSV) imported into ALU Software

1TMSD	HAC	CL	IRANCL	263064
2TMSD	LAC	CL	IRANCL	428079
3TMSD	WET	CL	IRANCL	850070
4 TMSD	HAC	CL	RFANNCL	786082
5TRMM	LAC	CL	RFANNCL	37
6TMSD	LAC	CL	RFANNCL	2444404
7TRMM	WET	CL	RFANNCL	7
8TMSD	WET	CL	RFANNCL	707428
9TMSD	HAC	CL	RFANNCL	37
10TMSD	LAC	CL	RFANNCL	19
11 TMSD	WET	CL	RFANNCL	19
12TMSD	HAC	CL	OTHERCL	359059
13TRMM	LAC	CL	OTHERCL	121
14 TMSD	LAC	CL	OTHERCL	979644
15 TMSD	WET	CL	OTHERCL	285510
16TMSD	HAC	CL	NATIVGL	375894
17 TRMM	LAC	CL	NATIVGL	894
18TMSD	LAC	CL	NATIVGL	1149905

Conclusions

- SEA countries appreciated the experience in using ALU Software:
 - better understanding of the IPCC methods and the concepts of good practice guidance
 - became more organized in managing the ALU data and information
- ALU Software gave them an idea of the status (completeness) of data for ALU GHG inventory to meet the IPCC GL/GPG requirements;
- There are opportunities in using ALU Software in SEA countries key categories:
 - Forest management;
 - REDD
 - Rice cultivation
 - Livestock
- More exposures to GHG inventory tools/software, more chances of having a 'sustainable inventory management' in the country, so experts can come and go, but inventory continues and meets needs of policymakers.