

TIFAC-IIASAFOR-IIFM Workshop on Ecological Modelling with special reference to Forestry Sector January 28-29, 2010

I. Background

The forestry sector in India has been undergoing considerable changes on account of climate variability and climate change in recent years and many a times both cause and effects can be located within the sector but the policy response to it has been minimal on account of lack of understanding of the sector's in holistic manner in relation to its services, processes and stakeholders which are so much interdependent. Thus there is an urgent need to build capacities in forest resource modeling to understand the sector in totality and impact of changes in forestry sector specially relating to its capacity to absorb shocks of climate change through its infrastructural function and resilience mechanism and its output function in terms of provisioning of various goods and services on local, regional and global economies and equip the forest managers and researchers in the area such that appropriate response strategies may be formulated for sustainable management of forest resources.

II. Workshop coverage & deliverables

The workshop shall dwell upon Ecological Models for Resource Management ; analysis of climate change mitigation options in the forestry sector using a generic carbon budget model; assessment of the consequences of management activities on forest carbon stocks on their landscape; consideration of the effects of planned activities on forest carbon stocks and stock changes and a strategy for reducing greenhouse gas emissions; Forest Carbon Monitoring, Accounting and Reporting System and would eventually enhance role of ecological modeling in decision making process.

III. Targeted beneficiaries- Forest Managers and Researchers (30 participants)

IV. Programme Structure – Four days (January 28- February 02, 2010)

January 27 (Evening), 2010	
Arrival of IIASA & TIFAC Scientists at guest-house of IIFM - Bhopal	
January 28	
Time	Activity
9.30 am -10 am	Registration
10 am- 10.45 am	Inauguration a. Address by Director IIFM b. Background of IIASA Researchers & Participants c. Workshop overview by IIASA team
10.45 -11.00	Tea
11.00 am - 1.00 pm	Overview of Integrated Modelling of Terrestrial Biosphere Management with a Special Emphasis on Forestry - IIASA Expert
1.00 pm – 2.00 pm	Lunch
2 pm - 3.30 pm	New Approaches to Vegetation Modeling at Different Scales - Dr. Oskar Franklin/IIASA
3.30 pm - 3.45 pm	Tea
3.45 pm - 5.30 pm	Tutorial through software

January 29	
Presentation on Indian Scenario	
9.00 am – 9.45 am	Lecture – I: Wetland Ecosystem Modelling and Policy Implications- Dr. Gopal Kadekodi, Former Director, ISEC-Bangalore and Visiting Professor-CMDR, Dharwad, Karnataka
9.45 am - 10.30 am	Lecture – II: Evolution of Climate Change - Mr. Rajeev Chaturvedi, climate change Analyst, Climate change Centre for Excellence, HSBC, Bangalore
10.30 am – 10.45 am	Discussions
10.45 am- 11.00 am	Tea
11.00 am- 1.00 pm	Methodology and Modelling Network of Forest Ecosystems Full Greenhouse Gas Account - IIASA Expert
1.00 pm – 2 pm	Lunch
2.00 pm - 3.30 pm	Climate change mitigation options in the forestry sector using a carbon budget model - IIASA Expert
3.30 pm - 3.45 pm	Tea
3.45 pm - 5.30 pm	(1) Information about simulation tools (2) Discussions, questions, answers, prospects

January 30, 2009		Workshop for the Students	
9.30 am - 11.00 am	Overview of Integrated Modelling of Terrestrial Biosphere Management with a Special Emphasis on Forestry - IIASA Expert		
11.00 am -11.30 am	Tea		
11.30 am - 1.00 pm	Wetland Ecosystem Modelling and Policy Implications- Dr. Gopal Kadekodi, Former Director, ISEC-Bangalore and Visiting Professor-CMDR, Dharwad, Karnataka		
1.00 pm – 2 pm	Lunch		
2 pm- 3.30 pm	New Approaches to Vegetation Modeling at Different Scales - Dr. Oskar Franklin/IIASA		
3.30 pm-4.00 pm	Tea		
4.00 pm-6.00 pm	Tutorial through software		
January 31, 2009			
9.30 am - 11.00 am	Methodology and Modelling Network of Forest Ecosystems Full Greenhouse Gas Account - IIASA Expert		
11.00 am -11.30 am	Tea		
11.30 am- 1.00 pm	Tutorial through software		
1.00 pm – 2 pm	Lunch		
2 pm- 3.30 pm	Climate change mitigation options in the forestry sector using a carbon budget model - IIASA Expert		
3.30 pm-4.00 pm	Tea		
4.00 pm-6.00 pm	1) Information about simulation tools (2) Discussions, questions, answers, prospects		

VII. Indian Experts

- i. Dr. Gopal Kadekodi, Ex Director, Institute for Social and Economic Change, Bangalore, India and NRM Expert at Dharwad, Karnataka, India **or**
- ii. Mr. Rajeev Chaturvedi, climate change Analyst, Climate change Centre for Excellence, HSBC, Bangalore