

**1st LBA Model Intercomparison Project Workshop
24-25, September 2007 Salvador, Bahia, Brazil**

**Bem Vindos
(Welcome)**

***Luis “Gustavo” G. de Goncalves
NASA-GSFC/UMD-ESSIC***

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- *Introducing Participants***
- *LBA-MIP Main Objectives***
- *Current Status***
- *Issues During the First Phase***
- *Workshop Agenda***

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Objectives

- ***Discuss issues related to logistics***
 - ***Infrastructure for data distribution***
 - ***Data format***
 - ***Model runs***
 - ***Data submission***
- ***Quality control of drivers and parameters***
- ***Model results***
 - ***What we learned from individual model results across sites***
 - ***How models represent seasonality of water and carbon***
- ***Next steps***
 - ***How to conduct model intercomparison and evaluation against observations***
 - ***A spatially continuous MIP across Amazonia? South America?***
 - ***Other?***

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Current Status

	Resp.	Carbon	Non Carbon
<i>Noah_DV</i>	L.Goulden		
<i>Noah_STD</i>	L.Goulden		
<i>CLM3_DP</i>	L.Goulden		
<i>CLM3_GW</i>	L.Goulden		
<i>CLM3_TB</i>	L.Goulden		
<i>Biome-BCG</i>	K.Ichii		
<i>SiB3</i>	I.Baker		
<i>5PM</i>	Margriet G		
<i>LPJ</i>	B.Poulter		
<i>CoLM</i>	J.Tota		

	Resp.	Carbon	Non Carbon
<i>HYLAND</i>	D.Galbraith		
<i>JULES</i>	R.Fisher		
<i>SPA</i>	A.Fox		
<i>SPA (MODIS)</i>	A Fox		
<i>SSiB2</i>	Hong Bo		
<i>IBIS</i>	M.Costa		
<i>CLM3.0</i>	Brad C.		
<i>CLM3.5</i>	Brad C.		
<i>DGVM3.5</i>	Brad C.		
<i>SiB-CASA</i>	K.Schaefer		

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Issues During the First Phase

- **Timeline for results submission**
 - *Determining deadlines...*

- **NetCDF data format**
 - *Are the current data formats going to be kept?*

- **Consistent filling for remotely sensed derived parameters (e.g. MODIS LAI)**
 - *Other parameters?*

- **Uncertainty due to site specific soil classification**
 - *Suggested percentage of silt, clay and loam defined by the mid-point value within the USDA soil texture triangle*

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Issues During the First Phase

- Reference site for calibration (i.e. K34)
 - Others? All?

- Model states and parameters
 - *Plant Functional Types (PFT)*
 - *Initial states for pools of carbon/nitrogen*
 - *Land use/Land change information (e.g. crop grow cycle at K77)*

- Atmospheric forcing problems
 - Precipitation (PDG)
 - Surface Pressure (e.g. K34, K67, K77, K83, RJA, FNS)
 - Air temperature (K34)
 - Others?

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Workshop Agenda

DAY 1 (24 September)

Introduction, motivation, and status report

9:00 -- Welcome and overview and discussion of workshop goals

Luis Gustavo de Goncalves (NASA-Goddard)

(including status report on model runs we have so far, brief discussion of issues encountered, etc.)

9:15 – discussion

9:25 -- Motivation for LBA-MIP: questions from an observationalist

Scott Saleska (University of Arizona)

9:35 – discussion

9:45 -- The data drivers: status report and discussion about data drivers used

Natalia Restrepo-Coupe (University of Arizona)

9:55 – discussion

Initial Insights and Lessons from running individual models

10:00 – Model optimization with the 5PM model

Margriet Groenendijk

10:20 discussion

Coffee break (10:30– 11:00)

11:00 – Reparameterizing the Richard's equation in CLM 3.0: are deep roots really necessary?

Brad Christoffersen

11:20 discussion

11:30 Ben Poulter something on LPJ model (confirm)

Lunchtime (12:00 – 13:30)

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Workshop Agenda

DAY 1 (24 September)

Afternoon

III. Model Intercomparisons #1: looking across models

13:30 Carbon flux intercomparisons

Ian Baker

14:00 –Energy budget partitioning across models

Lindsey Gulden

IV. Tools for next steps

14:45 – Software tools to facilitate easy model intercomparisons

Luis Gustavo de Goncalves (NASA-Goddard) & Enrique Rosero (U Texas)

15:15 Coffee break

15:40 -- Comparing point surface observations to gridded datasets

Pedro L. Silva Dias

16:00 -- General discussion session: Initial discussion about goals for next meeting and paper production

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Workshop Agenda

DAY 2 (25 September)

9:00 – Welcome and overview for day 2 (Gustavo or Scott)

V. Insights and Lessons from running individual models, #2

9:10 -- Lessons Learned from the HYLAND model

David Gailbraith, Edinburgh University

9:45 – Lessons learned from Fixing IBIS seasonality

Marcos Costa

VI. Model Intercomparisons #2: looking across models

10:05 -- Vegetation phenology and water fluxes, part 2: comparisons across models

Marcos Costa

10:35 **Coffee Break**

11:00 – Modeling ET across multiple sites and comparing to data

Josh Fisher

VII. Next Steps

11:30 -- Next steps #1: from MIP to D-MIP (Data-Model intercomparison)

(led by Scott)

12:15 – 13:30 LUNCH

13:30 -- Next steps #2: discussion about future modeling efforts and data driver issues

(led by Gustavo)

14:00 -- FINAL discussion session /planning next workshop & papers

15:30 Coffee break

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Wireless Login and Password of the day

Login: c9b6999
Password: bde4ed2b

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