

## Preliminary announcement

### The importance of land-atmosphere fluxes of methane and nitrous oxide for the global greenhouse-gas balance – The need for a FLUXNET-GHG

Hyytiälä, Finland 2-7 September 2012

#### Rationale:

In the last year, several scientific initiatives developed on synthesising existing information on land-atmosphere fluxes of CH<sub>4</sub>, e.g., within GHG-Europe, FLUXNET, MethaneNet, and by a recently granted proposal for an ESF Exploratory workshop. Some of these initiatives point out that a coherent database for the global CH<sub>4</sub> fluxes would be needed for an efficient way towards a global synthesis of CH<sub>4</sub> fluxes and propose to set-up a "FLUXNET CH<sub>4</sub>". As the mentioned initiatives are more or less of regional nature (e.g., Europe) or restricted to a limited number of participants (e.g. the ESF workshop), we think that a larger-scale, international open workshop on this emerging hot topic would be essential, jointly with FLUXNET/iLEAPS/ICOS/InGOS/DEFROST/GHG-Europe.

Further, we think that we should use this process right from the beginning to extend our discussions and planning also to include N<sub>2</sub>O in the future. The time appears to be ripe for "FLUXNET GHG". The meeting in Finland will cover the issues of the flux data availability for CH<sub>4</sub> and N<sub>2</sub>O, integration of CH<sub>4</sub>-flux data into the FLUXNET database, inter-comparison of analysers and harmonised/standardized data processing protocols. We hope that representatives of the other initiatives mentioned above will participate in this integration meeting and will contribute the outcomes of their respective activities.

#### Keywords:

Methane fluxes, nitrous oxide fluxes, database, eddy covariance, chamber measurements, measurement protocols, FLUXNET extension;

#### Proposed dates, location and accommodation:

3 – 7 September 2012 (arrival to Helsinki on 2<sup>nd</sup> Sept) Hyytiälä Forestry Field Station, Hyytiälä, Finland.

This week is split into 2 different open meetings with participants welcome to attend both meetings:

3 – 4 September (InGOS meeting) – Planning of the N<sub>2</sub>O chamber calibration campaign, inter-comparison, quality assurance and quality control for N<sub>2</sub>O.

4 – 7 September (FLUXNET meeting) - Synthesis meeting focussed mainly on CH<sub>4</sub>

Accommodation: Forestry Field Station Hyytiälä, Finland, capacity: 50 rooms (up to 100 people - people are expected to share the room in order to accommodate all).

Registration costs: 350 EUR, including transport from Helsinki to Hyytiälä and return, accommodation at the Forestry Field Station, workshop, boreal dinner as well as other activities.

Preliminary timetable:

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	2 <sup>nd</sup> September	3 <sup>rd</sup> September	4 <sup>th</sup> September	5 <sup>th</sup> September	6 <sup>th</sup> September	7 <sup>th</sup> September
AM		Travel of INGOS participants to Hyytiälä	INGOS meeting Arrival of CH <sub>4</sub> and N <sub>2</sub> O participants in Helsinki	CH <sub>4</sub> and N <sub>2</sub> O meeting	CH <sub>4</sub> and N <sub>2</sub> O meeting	Final discussions and Conclusions
PM	Arrival of INGOS participants in Helsinki	INGOS meeting	INGOS overflow Travel of CH <sub>4</sub> and N <sub>2</sub> O participants to Hyytiälä	CH <sub>4</sub> and N <sub>2</sub> O meeting	CH <sub>4</sub> and N <sub>2</sub> O meeting	Return travel to Helsinki

Agenda:

Preliminary agenda to be announced end April 2012.

Registration:

Please contact Dr. Sigrid Dengel, Department of Physics, University of Helsinki (sigrid.dengel@helsinki.fi) and please register with the following details:

Name:

Affiliation:

Telephone number:

Meeting attending:

Potential speaker (YES/NO) and tentative title:

Prepared to share the room:

Additional information (vegetarian, allergies, etc.):