

# **Methane Fluxes From Three Ecosystems In Tropical Peatland Of Sarawak, Malaysia [An Article From: Soil Biology And Biochemistry] [HTML] [Digital] By L. Melling;R. Hatano;K.J. Goh**

**By L. Melling;R. Hatano;K.J. Goh**

McGuire A D, Steudler P A, Felzer B S and Hu S 2004 Methane fluxes between terrestrial ecosystems and the atmosphere at northern high latitudes during  
<http://iopscience.iop.org/1748-9326/6/4/045211/fulltext/>

Abstract A pilot study to measure methane flux using eddy correlation sensors was conducted in a peatland ecosystem in north central Minnesota.

<http://adsabs.harvard.edu/abs/1992BoLMe..58..289V>

used to minimize methane fluxes from these ecosystems. Sass et al. (1992) demonstrated that two to three day drainage periods every three weeks resulted in a

<http://www.jstor.org/stable/40062230>

SPECIAL ISSUE 528 Contemporary and projected biogenic fluxes of methane and nitrous oxide in North American terrestrial ecosystems Hanqin Tian<sup>1\*</sup>, Chaoqun Lu <sup>1</sup>

[http://www.ars.usda.gov/SP2UserFiles/Place/60100500/csr/ResearchPubs/prior/prior\\_12e.pdf](http://www.ars.usda.gov/SP2UserFiles/Place/60100500/csr/ResearchPubs/prior/prior_12e.pdf)

The eddy covariance (also known as eddy correlation and eddy flux) Methane emission from permafrost regions; Biogenic VOCs emission

[http://en.wikipedia.org/wiki/Ecosystem\\_flux](http://en.wikipedia.org/wiki/Ecosystem_flux)

Quantifying Methane Ebullitive Flux from Subarctic Ecosystems Jacqueline Amante<sup>1</sup>, Ruth Varner<sup>1</sup>, Patrick Crill<sup>2</sup>, Michael Palace<sup>1</sup> <sup>1</sup>Institute for the Study of Earth

[http://www.unh.edu/urc/sites/unh.edu.urc/files/media/images/2012\\_Awards/Amante%2C%20Jaqueline%20jma\\_rkv%20final2.pdf](http://www.unh.edu/urc/sites/unh.edu.urc/files/media/images/2012_Awards/Amante%2C%20Jaqueline%20jma_rkv%20final2.pdf)

in tropical peatland of Sarawak, Malaysia , Soil Biology & Bio Melling, L., Hatano, R. and Goh, K.J. from three ecosystems in tropical peatland of

<http://www.emeraldinsight.com/doi/ref/10.1108/14777831011049142>

Comparative Experimental Biology, were found in three Lepidoptera from the rhizosphere of acidic soil-tolerant plants in tropical

[http://eprints.lib.hokudai.ac.jp/dspace-oai/request?verb=ListRecords&set=hdl\\_2115\\_20046&metadataPrefix=oai\\_dc](http://eprints.lib.hokudai.ac.jp/dspace-oai/request?verb=ListRecords&set=hdl_2115_20046&metadataPrefix=oai_dc)

The current study analyzes the different modes of variation in methane fluxes from different microsites of a boreal mire. The results emphasize the importance of

<http://citeseerx.ist.psu.edu/showciting?cid=1428195>

Overall the main determinant of net flux of methane into the atmosphere is the ratio of methane produced by methanogenic bacteria that Net ecosystem production

[http://en.wikipedia.org/wiki/Wetland\\_Methane\\_Emissions](http://en.wikipedia.org/wiki/Wetland_Methane_Emissions)

Previous article in issue: Methane efflux from boreal wetlands: Theory and testing of the ecosystem model Ecosys with chamber and tower flux measurements

<http://onlinelibrary.wiley.com/doi/10.1029/2001GB001855/references>

Methane fluxes were measured monthly over a year from tropical peatland of Sarawak, Malaysia using a closed-chamber technique. The CH<sub>4</sub> fluxes in forest ecosyste

<http://www.sciencedirect.com/science/article/pii/S0038071705000246>

by distinguishing gross methane fluxes through both Hawaiian Islands and temperate ecosystems in the of biophysical mechanisms using stable

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.532.6365>

fluxes from organic soils under agriculture. Goh, Methane fluxes from three ecosystems in tropical peatland of Sarawak, Malaysia, Soil Biology and

<http://onlinelibrary.wiley.com/doi/10.1046/j.1365-2389.1998.00156.x/citedby>

Methane fluxes between terrestrial ecosystems and the atmosphere at northern high latitudes during the past century: A retrospective analysis with a process-based

<http://www.eaps.purdue.edu/ebdl/pdfs/2004pub-1.pdf>

2115/671/1/EzAB.pdf 00032697 Analytical Biochemistry 328 2 139 146 found in three Lepidoptera species of acidic soil-tolerant plants in tropical

<http://eprints.lib.hokudai.ac.jp/dspace->

[oai/request?verb=ListRecords&set=hdl\\_2115\\_20046&metadataPrefix=junii2](http://eprints.lib.hokudai.ac.jp/dspace-oai/request?verb=ListRecords&set=hdl_2115_20046&metadataPrefix=junii2)

A new paper published in Nature has shed light on the subject of the temperature dependence of methane fluxes for the three different ecosystems was

<http://www.methanenet.org/node/26050>

Soil Biology & Biochemistry, 10 L. Melling, R. Hatano, K.J. Goh; Soil CO<sub>2</sub> flux from three ecosystems in tropical peatland of Sarawak, Malaysia.

<http://www.sciencedirect.com/science/article/pii/S0038071706004433>

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<http://rydberg.biology.colostate.edu/vonfischerlab/von%20Fischer%20&%20Hedin.pdf>

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[http://www.academia.edu/2372608/Tropical\\_peatlands\\_carbon\\_stores\\_carbon\\_gas\\_Emissions\\_and\\_contribution\\_to\\_climate\\_change\\_Processes](http://www.academia.edu/2372608/Tropical_peatlands_carbon_stores_carbon_gas_Emissions_and_contribution_to_climate_change_Processes)

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Summary. Methane (CH<sub>4</sub>) flux is the net rate of methane exchange between an ecosystem and the atmosphere. The Western United States was a methane sink with a flux

<http://landcarbon.org/categories/ch4-flux/download/>

Trace Gas Exchange and Climatic Relevance of Bog Ecosystems, Southern Germany. Methane fluxes from three peatlands in the La Grande Riviere watershed,

<http://www.sciencedirect.com/science/article/pii/S0168192314002081>

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<http://www.redalyc.org/articulo.oa?id=33932105>

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<http://umbs.lsa.umich.edu/research/projects/effects-of-typha-x-glauca-on-methane-flux-in-freshwater-ecosystems-under-anaerobic>

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Methane fluxes from three ecosystems in tropical peatland of Sarawak, Malaysia [An article from: Soil Biology and Biochemistry] [L. Melling, R. Hatano, K.J. Goh] on

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Methane fluxes show consistent temperature dependence across Understanding how CH<sub>4</sub> emissions from ecosystems will respond to expected increases in

<http://www.ncbi.nlm.nih.gov/pubmed/24670769>