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voc

B72C-07

HR: 15:30h
 AN: **B72C-07**

TI: **Biogenic VOC Emissions from Disturbed and Undisturbed Amazonian Landscapes**

AU: * **Greenberg, J P**

EM: *greenber@ucar.edu*

AF: *National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 United States*

AU: **Guenther, A B**

EM: *guenther@ucar.edu*

AF: *National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 United States*

AU: **Harley, P**

AF: *National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 United States*

AU: **Vega, J O** → VEGA BUSQUILLOS, J.O.W.

EM: *ovega@net.ipen.br*

AF: *IPEN - MQA - Divisao de Quimica Ambiental, Caixa Postal 11049 - CEP 05422-970, Sao Paulo, SP Brazil*

AU: **Vasconcellos, P.C.** ←

EM: *pcvascon@baitaca.ipen.br*

AF: *IPEN - MQA - Divisao de Quimica Ambiental, Caixa Postal 11049 - CEP 05422-970, Sao Paulo, SP Brazil*

AU: **Tota, J**

EM: *tota@met.inpe.br*

AF: *IAE/CTA, Praca Marechal Eduardo Gomes, 50 12228-904, Sao Jose dos Campos, SP Brazil*

AU: **Rinne, J**

EM: *rinne@ucar.edu*

AF: *National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 United States*

AU: **Fisch, G**

EM: *gfisch@iae.cta.br*

AF: *IAE/CTA, Praca Marechal Eduardo Gomes, 50 12228-904, Sao Jose dos Campos, SP Brazil*

AU: **Baugh, W**

EM: *baugh@ucar.edu*

AF: *National Center for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307 United States*

AU: **Gatti, L V**

EM: *lvgatti@baitaca.ipen.br*

AF: *IPEN - MQA - Divisao de Quimica Ambiental, Caixa Postal 11049 - CEP 05422-970, Sao Paulo, SP Brazil*

AB: Biogenic volatile organic compound emissions (isoprene, monoterpenes, plant-wound emissions, toluene, and others) were studied in numerous Amazonian landscapes. These ranged from primary forest to recently cleared forest and pastures. Emissions were measured from several platforms, including leaf and branch enclosures (over 150 woody plant species), tower flux measurements (eddy covariance, relaxed eddy accumulation, disjunct eddy accumulation; at 3 sites), and biogenic VOC profiles in the atmospheric boundary layer from a tethered balloon platform (9 sites). The emissions are used to characterize differences among the landscapes and to develop some

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general emission parameters. Vegetation surveys are used to identify emitting species and to estimate emission capacities. Flux measurements are used to describe the effect of temperature and light on emissions, as well as to measure emission rates in tower footprints. Atmospheric concentrations are associated with the observed meteorological conditions (including PAR, temperature, cloud cover, boundary layer structure, etc.) to describe the connection between emissions and atmospheric concentrations of the biogenic VOCs. Other environmental and physical factors effecting emissions are examined and research areas where considerable improvement in emissions modeling may occur are identified.

DE: 1615 Biogeochemical processes (4805)

DE: 0300 ATMOSPHERIC COMPOSITION AND STRUCTURE

DE: 0315 Biosphere/atmosphere interactions

DE: 0322 Constituent sources and sinks

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JN: *Eos Trans. AGU*, 81 (48), Fall Meet. Suppl., 2000

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