THURSDAY	Stream I		Stream II	
Session	**#**	**Flux Measurements** *(continued)*	**#**	**Impact of changes** *(continued)*
Session IV **Thu, 4th** 9:00-10:30	14 Mueller 15 Kool 16 Hensen 17 Ellis	Quantification of process-based gross N transformation rates in soils based on 15N tracing - theory and application Nitrifier denitrification can be a source of N2O from soil: a revised approach to the dual isotope labelling method Mobile plume measurements of ammonia from slurry application. Importance of inlet design in measurements of atmospheric ammonia	14 Cantarel 15 Augustin 16 Wolf 17 Calanca	Effects of temperature, drought and elevated CO2 on N2O fluxes and N cycling in an upland grassland ecosystem: interactions with plant and microbial community structure Relations between the structure of the denitrifying bacterial community and the current N2 and N2O flux rates at a long term fen grassland N fertilization experiment N2O fluxes in a steppe environment as affected by grazing and Manure Management Simulation of N2O emissions from productive grasslands in response to changes in management, climate and botanical composition
Coffee			**#**	**Plot-scale modelling** *(Klaus Butterbach-Bahl)*
Session V **Thu, 4th** 11:00-13:00	18 Kuhn 19 Massad 20 Cape 21 Theobald 22 Bowman	Volatile amines from agriculture Review and parameterisation of bi-directional ammonia exchange between vegetation and the atmosphere Organic nitrogen in European precipitation Field Measurements of Nitrogen Flows in a Rural Landscape (Overview of the NitroEurope Bjerringbro Field Experiment) European scale modelling of groundwater denitrification and associated N2O production	1 Topp 2 Grant 3 Smith 4 Lehuger 5 Garcia	Predicting N2O emissions from grassland: a compariosn of DayCent and DNDC Using the ecosys mathematical model to simulate topographic effects on spatial variability of nitrous oxide emissions from a fertilized agricultural field (tbc) Application of the rule-based hybrid model B-LINE 2 to modelling of N2O emissions from imperfectly drained N-fertilised grassland soils and buffer strips Predicting and mitigating the global warming potential of agro-ecosystems Accounting for slurry infiltration and surface crusting in mechanistic modeling of ammonia volatilization after slurry spreading: Application to the Volt'Air model.
Lunch	**#**	**Up-scaling from Plot to Regional Scale** *(Pierre Cellier)*		
Session VI **Thu, 4th** 14:15-16:00	1 Dalgaard	Effects of spatio-temporal heterogeneity on modelling and upscaling agricultural N-losses and greenhouse gas emissions in European landscapes	6 Chirinda	Simulating soil N2O and CO2 emissions from arable organic and conventional systems using two biogeochemical models
			#	**Assessment of nitrogen** *(Wim de Vries)*
	2 Duretz 3 Kros	NitroScape: an integrated model of nitrogen fluxes and transformation at the landscape scale Integrated analysis of the effects of agricultural management on environmental quality at landscape scale.	1 Zaehle 2 Thompson	Effect of historical changes in land-use, N fertiliser application and atmospheric N deposition on terrestrial carbon and nitrogen fluxes Bayesian inversion for N2O fluxes using a global data set
			#	**Verification and Uncertainty** *(Jan Willem Erisman)*
	4 Leip 5 Drouet	Farm, Land, and Soil nitrogen budgets for Agriculture in Europe FARMSIM: an integrated tool to model greenhouse gas emissions at the farm level	1 Bergamaschi 2 Reinds	Inverse modeling of European CH4 and N2O emissions Modelling greenhouse gas emissions at the European scale using upscaling of selected areas and full aerial support.
Coffee				
Session VII **Thu, 4th** 16:30-18:00	6 Haas 7 Engeland 8 Lesschen	MoBilE2D: The Regionalization of the Modular Biosphere Simulation Environment - Concept, Regional Application and Future Plans Spatio-temporal development of C and N export in two upland Scottish streams and its relationship to catchment characteristics Estimation of N2O emission factors for soils depending on environmental conditions and crop management	3 De Vries 4 Heuvelink	Comparison of land nitrogen budgets for European agriculture by various modeling approaches Geostatistical simulation of European soil property maps