

Predictive ecology: systems approaches

Organised by Professor Matthew Evans, Professor Tim Benton and Professor Ken Norris

Monday 18 April 2011				Tuesday 19 April 2011			
The world is complicated Chair: Charles Godfray		Why and how to predict Chair: Peter Hudson		Systems approaches Chair: Georgina Mace		Looking ahead: solving challenges into the future Chair: Matthew Evans	
09.00	Welcome by Julie Maxton & lead organiser						
09.05	Matthew Evans Modelling ecological systems in a changing world	13.30	Bill Sutherland Increasing the relevance of predictive ecology for policy and practice	09.00	Tim Benton Systems approaches in population biology: lessons from a mite model system	13.30	Steve Penfield From genes to ecology
09.30	Discussion	14.00	Discussion	09.30	Discussion	14.00	Discussion
09.45	Jim Clark Inference to prediction in high-dimensional systems: the interactions behind biodiversity response to global change and resource competition	14.15	Steve Orzack The philosophy of modelling	09.45	Hanna Kokko Ecology and evolution - why they should form a two-way street	14.15	Pete Smith Systems approaches in global change and biogeochemistry
10.15	Discussion	14.45	Discussion	10.15	Discussion	14.45	Discussion
10.30	Coffee	15.00	Tea	10.30	Coffee	15.00	Tea
11.00	Volker Grimm Pattern-oriented modelling: a 'multiscope' for predictive ecology	15.30	Allan Tucker Bioinformatics tools in predictive ecology: applications to fisheries	11.00	Paul Moorcroft Developing a predictive science of the biosphere	15.30	Colin Beale Predicting species distributions in a changing world
11.30	Discussion	16.00	Discussion	11.30	Discussion	16.00	Discussion
11.45	David Rand Matching the complexity of models and data: lessons from molecular systems biology and mathematics	16.15	Mark Rounsevell Scenarios of land use change and ecological impacts	11.45	Emily Nicholson Interactions between human behaviour and ecological system dynamics	16.15	Ken Norris Challenges for applied ecology
12.15	Discussion	16.45	Discussion	12.15	Discussion	16.45	Discussion
12.30	LUNCH	17.00	CLOSE	12.30	LUNCH	17.00	CLOSE