## Carbon cycle perturbation by geomorphic processes

# A meeting of the BSG Carbon Working Group Thursday July 12<sup>th</sup>, University of Exeter

## DRAFT PROGRAMME

9.30	Arrival	
10.00	Introduction	
10-10.05 10.05-10.30	Introduction Geomorphology and climate models	Martin Evans and Tim Quine Chris Jones
10.30	Paper Session 1	
10.30-10.45	Challenges and solutions for spatial and temporal explicit modelling and representation of soil organic carbon at the regional scale	Jeroen Meersmans
10.45-11.00	Modelling blanket peat erosion under future environmental change	Pengfei Li
11.10-11.30	Coffee break	
11.30	Paper Session 2	
11.30-11.45	Mutually Supportive Use of Stable Isotope and Gas Chromatography Techniques to Understand Rainfall-Runoff Dynamics and carbon fluxes in Dryland Environments	Alan Puttock
11.45-12.00	Spatial variability and response of soil organic carbon stocks to land abandonement and erosion in mountainous drylands	Sarah De Baets
12.00-12.15	Production, erosion and sedimentation of pyogenic carbon from vegetation fires and its impact on the terrestrial carbon cycle	Stefan Doerr and Cristina Santin
12.15-12.30	Urban runoff carbon flux <i>title tbc</i>	Laura Turnbull
12.30-13.30	Lunch	

### 13.30-14.15 Workshop Groups

Question 1 What are the key unanswered question which we need to address in understanding the relation between geomorphology and terrestrial carbon cycling.

Question 2 Identify areas of Geomorphology which have made a contribution to understanding of terrestrial carbon cycling and areas where there is untapped potential

#### 14.15-14.30 Plenary discussion

#### 14.30 Paper Session 3

15.00-15.20	Coffee break	
14.45-15.00	Gaseous carbon flux from floodplain sediments.	Claire Goulsbra
14.30-14.45	Ponds and wetlands as landscape carbon sinks	John Quinton

15.20 Paper session 4

15.20-15.35	Controls on fluvial fluxes of suspended sediment, particulate and dissolved organic carbon from two adjacent catchments with contrasting land-uses, Exmoor UK.	Miriam Glendell
15.35-15.50	Particulate carbon losses from restored peatlands	Emma Shuttleworth
15.50-16.05	Wind farm development and peatland carbon balance	Alona Armstrong





