

-----Original Message-----

From: Diana Jolles [mailto:jolles.1@osu.edu]
Sent: Wednesday, April 05, 2006 12:58 PM
To: Bryan Mark
Subject: GEOG 880.01 readings

The papers I've selected have to do with arthropods in mountain environments: endemism in mountain environments (2, these are biogeographic studies), cold-tolerance physiology (1), the evolution of freeze-tolerance physiology (1), and implications of global climate change for organisms with varying physiology (2, a call and response).

I think the Marshall, Davis et al., Hodkinson, and Bruhl will be good for talking about. The Davis et al. and Hodkinson papers are very short.

The two physiology papers (Block et al. and Vannier & Vanier) are additional readings in case people don't know what is up with this physiological adaptation. I think people will find the Marshall quite interesting and the discussion between Davis et al. and Hodkinson is good. These are the three that I'd really like to focus on.

Thanks, Diana Jolles

The papers:

Marshall, DJ (1996) "Origin of the inland Acari of continental Antarctica, with particular reference to Dronning Maud Land" *Zoological Journal of the Linnean Society*, 118: 101-118.

Davis, AJ, JH Lawton, B Sharrocks, and LS Jenkinson (1998) "Individualistic species responses invalidate simple physiological models of community dynamics under global climate change" *The Journal of Animal Ecology*, 67 (4): 600-612.

Hodkinson, ID (1999) "Species response to global environmental change or Why ecophysiological models are important: a reply to Davis et al." *The Journal of Animal Ecology*, 68 (6): 1259-1262.

Vannier, P, and G Vannier (2002) "Evolution of freezing susceptibility and freezing tolerance in terrestrial arthropods" *C.R. Biologies*, 325: 1185-1190.

Block, W, JG Baust, F Franks, IA Johnston, and J Bale (1990) "Cold tolerance of Insects and other arthropods (and discussion)" *Philosophical Transactions of the Royal Society of London (B)*, 326(1237): 613-633.

Bruhl, CA (1997) "Flightless insects: a test case for historical relationships of African mountains" *Journal of Biogeography*, 24(2): 233-250.