



---

**2<sup>nd</sup> Workshop of the ESF Research Networking Programme SIZEMIC**

***Body size and ecosystem dynamics:  
Implications for conservation and management of natural resources***

The Sven Lovén Centre for Marine Sciences, University of Gothenburg, Strömstad, Sweden  
(<http://www.tmbi.gu.se/>)

June 3-6, 2009

Organiser: Andrea Belgrano (Swedish Board of Fisheries, Institute of Marine Research)



Co-organisers: Bo Ebenman (Linköping University) and Tomas Jonsson (University of Skövde)

---

## Day 1 - Morning Thursday 4<sup>th</sup> June

08:45 – 09:00 Andrea Belgrano – **Introduction to meeting**

### **THEME 1 Trophic cascades in food webs – effects of climate change and decreasing abundances of predators**

09:00 -10:00 Chris Carbone *key-note speaker* - Linking energetics with population responses to prey abundance: implications for carnivore conservation

10:00-10:30 Mark Emmerson - Marine reserves, climate forcing and the robustness of intact ecosystems

10:30 – 11:00 Coffee & Tea

11:00 – 11:30 Eoin O’Gorman - Strong and weak interactors stabilise communities in nature

11:30 – 12:00 Michele Casini – Trophic cascades promote threshold-like shifts in marine ecosystem dynamics: the Baltic Sea case

12:00 – 12:30 Ken Andersen - Damped trophic cascades driven by fishing in a size-based model of a marine ecosystem

12:30 – 13:00 Discussion

13:00 – 14:00 Lunch

## Afternoon Thursday 4<sup>th</sup> June

### **THEME 2 Dynamics and stability of size-based food webs**

14:00 – 15:00 Eric Berlow *key-note speaker* – Simplicity on the other side of ecological complexity?

15:00 – 15:30 Sofia Berg - Effects of changes in species mortality rates on resilience and structure of ecological communities: the role of body size

15:30 – 16:00 Tea & Coffee Break

16:00 – 16:30 Julia Blanchard – Size-based feeding traits and the stability of marine populations and communities

16:30 – 17:00 Samik Datta - A jump-growth model for predator-prey dynamics: derivation and application to marine ecosystems

17:00 – 17:30 John G. Pope - Progress in basing ecosystem models on the moments of length.

17:30 – 18:00 Anna Eklöf - Cascading extinctions in food webs – local and regional processes

18:00 Open Discussion

19:00 Workshop Dinner

## Day 2 - Morning Friday 5<sup>th</sup> June

### **THEME 3      Macroecological patterns and the impacts of climate change and exploitation**

- 08:30 – 09:30    Ken Frank *Key-note speaker – Title to be announced*
- 09:30 – 10:00    Axel G. Rossberg - A network of fundamental concepts: ideas, data, modelling, and application
- 10:00 – 10:30    Tea & Coffee Break
- 10:30 – 11:00    Patrik Stromberg – Slopes from space – general patterns in community size distributions and its implications
- 11:00 – 11:30    Jonathan A. D. Fisher Global patterns of marine fish body sizes and the ‘tropicalization’ of Northwest Atlantic large marine ecosystems
- 11:30 – 12:00    Tom Webb - Linking individual size and community composition to reveal the macroecological consequences of exploitation in marine fish
- 12:00 – 15:00    Boat trip with lunch

## Afternoon Friday 5<sup>th</sup> June

### **THEME 4      Ecosystem-based management of natural resources using size-based approaches**

- 15:00 – 16:00    Carlos Melian *key-note speaker* – Towards a general framework in food webs driven by data at multiple biological levels
- 16:30 – 17:00    Frank van Veen - Body size distribution as a measure of human impact on food web structure
- 17:00 – 17:30 – Coffee & Tea
- 17:30 – 18:00    Anieke van Leeuwen - How cod shapes its world
- 18:00 – 18:30    A.Jan Hendriks - Size dependence of ecological rate, time, density and area parameters: a review of empirical regressions put into a consistent framework
- 18:30 – 19:00    Christian Mulder - How ecological stoichiometry explains the faunal size-specific distribution of food webs
- 19:00              Dinner

## Day 3 - Saturday 6<sup>th</sup> June

### **THEME 5**      **Size-based adaptive management in linked ecological and socio-economic systems.**

- 08:30 – 09:30    Jon Norberg *Key-note speaker* - Ecological consequences of body size in the trait-based framework
- 09:30 – 10:00    Richard Law – Adaptive exploitation of renewable resources
- 09:30 – 10:00    Joakim Hjelm - PLANFISH – Ecosystem based management in the Baltic
- 10:30 – 11:00    Tea & Coffee Break
- 11:00 – 12:00    **Concluding session.** *Owen Petchey Key-note speaker* - Dimensions of size structure in food webs and comparisons across ecosystems
- 12:00 – 13:00    Open discussion
- 13:00 – 14:00    Lunch and departure