



Rome, 27-29 May 2019

Rewiring and indirect effects underpin modularity reshuffling in a marine food web under environmental shifts

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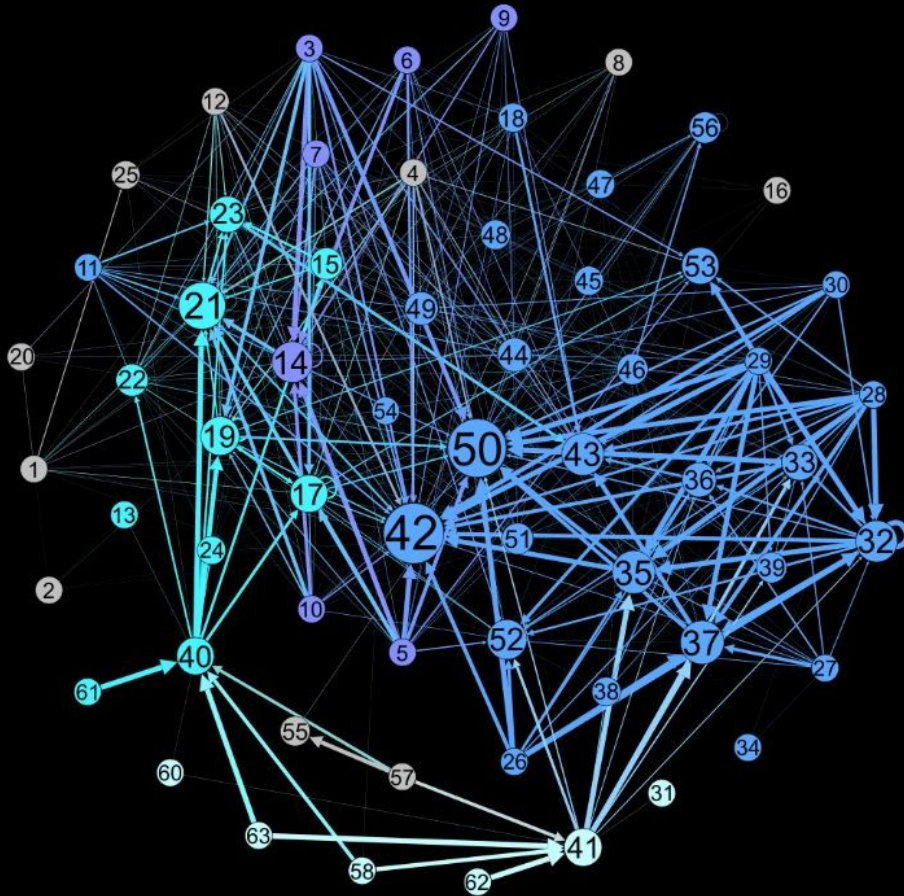
D'Alelio D, Jordan F, Libralato S, Ribera d'Alcalà M



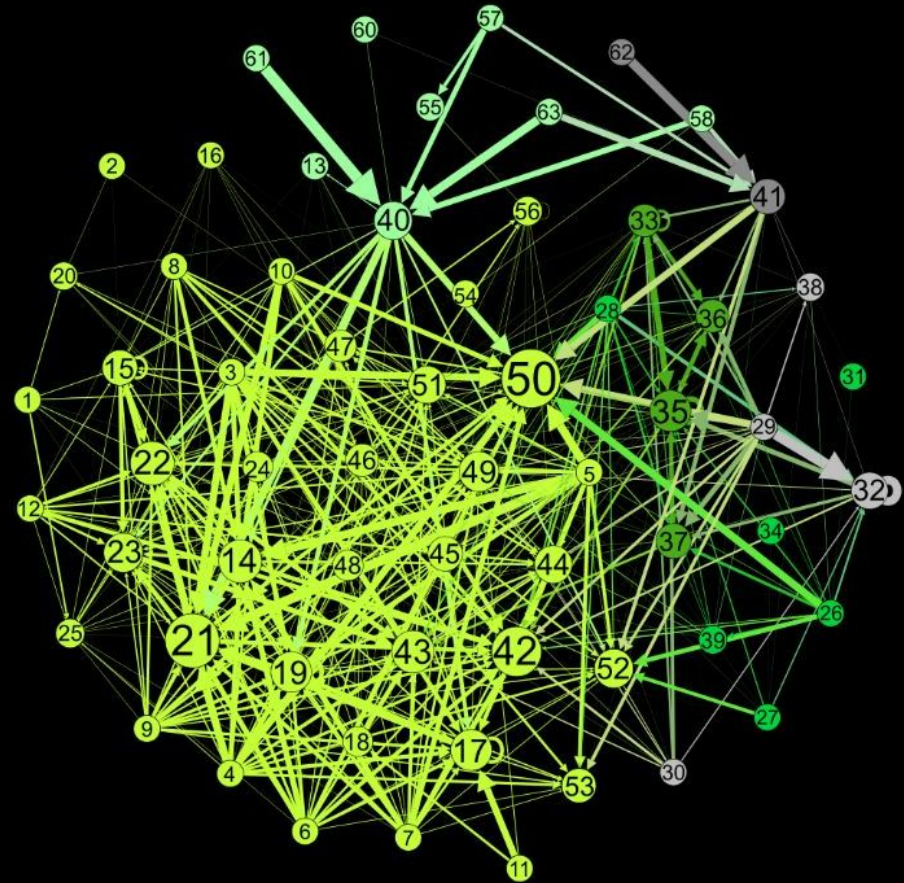
Nutrients fluctuate during summer in the GoN



Apparent trophic frenzy...

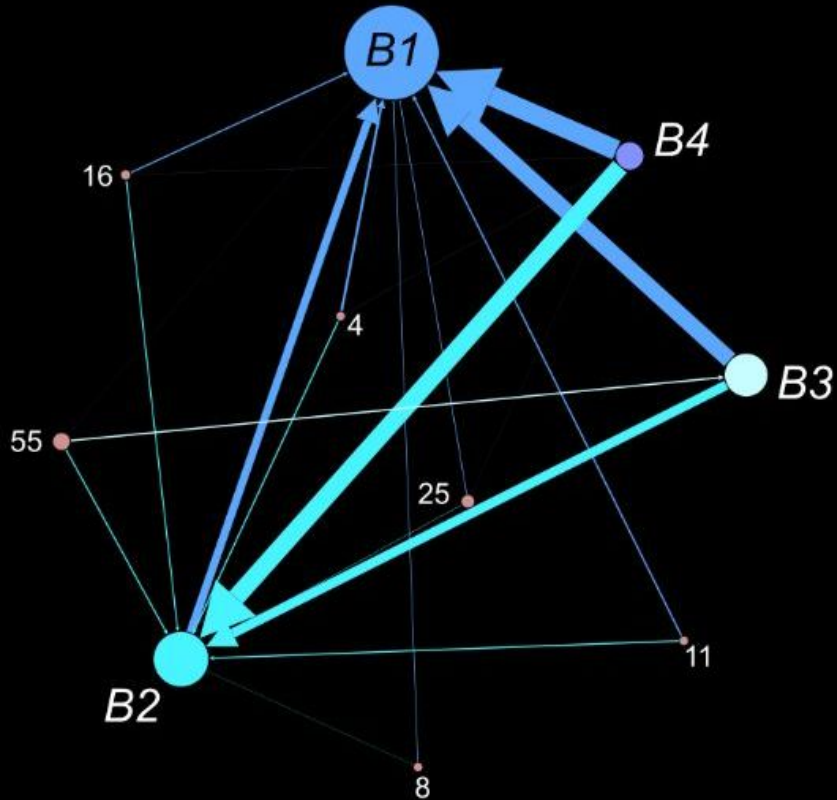


Oligotrophic

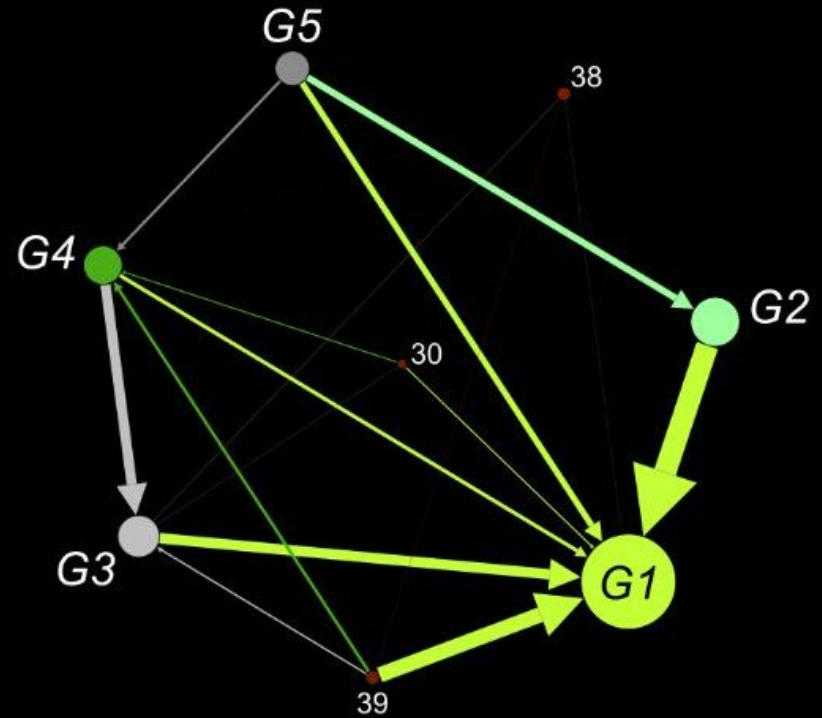


Eutrophic

...revealed as modular order

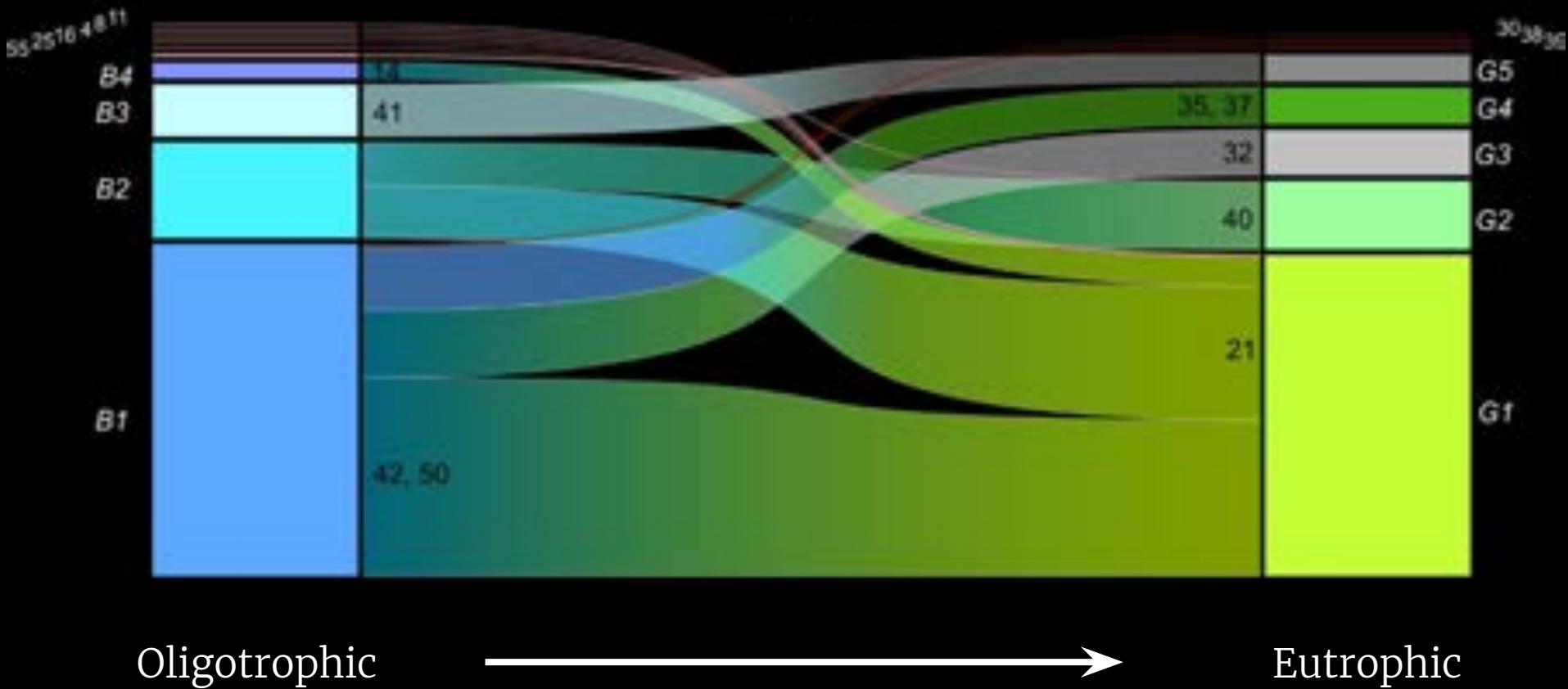


Oligotrophic

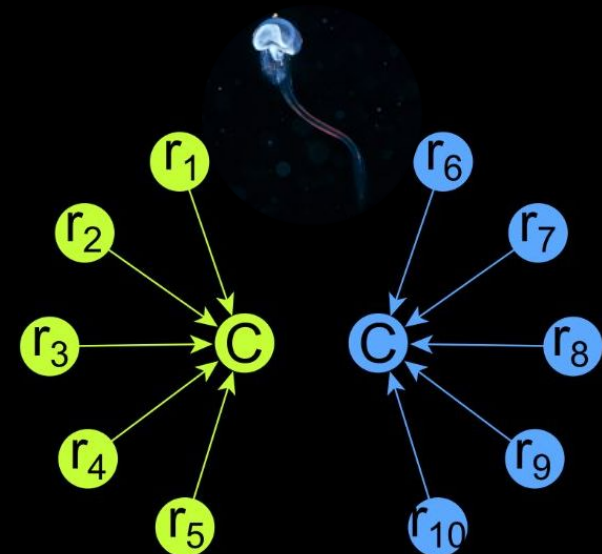
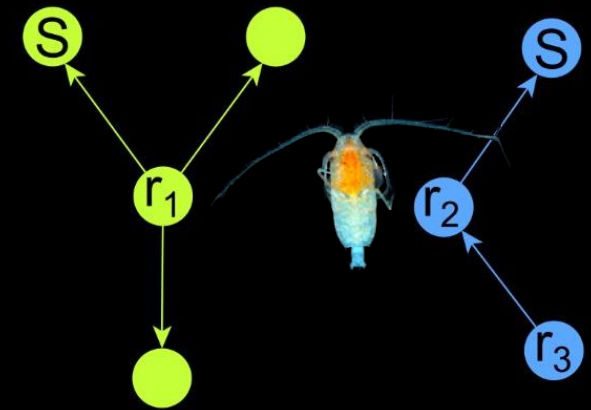
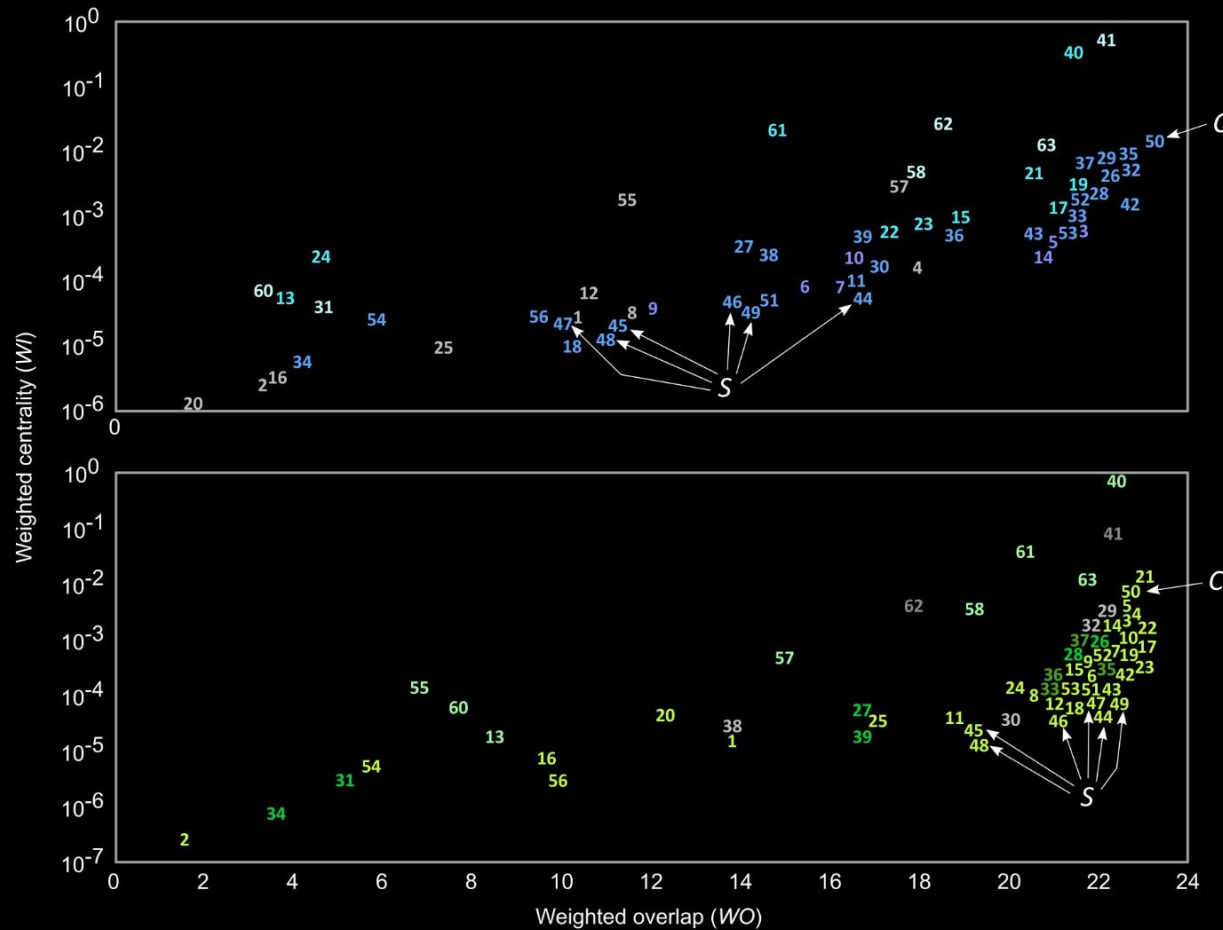


Eutrophic

Species flow among modules



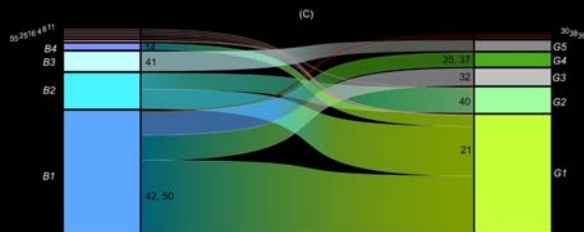
Switching roles, changing flows



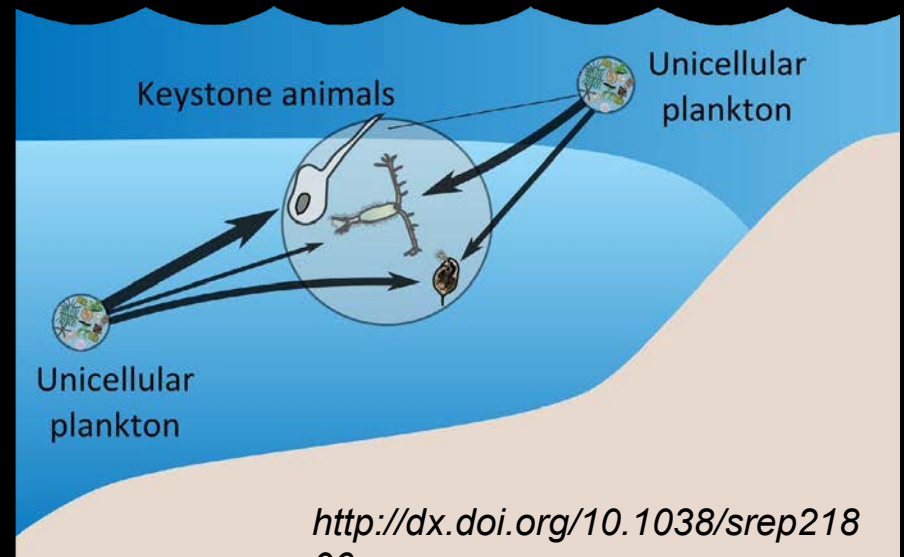
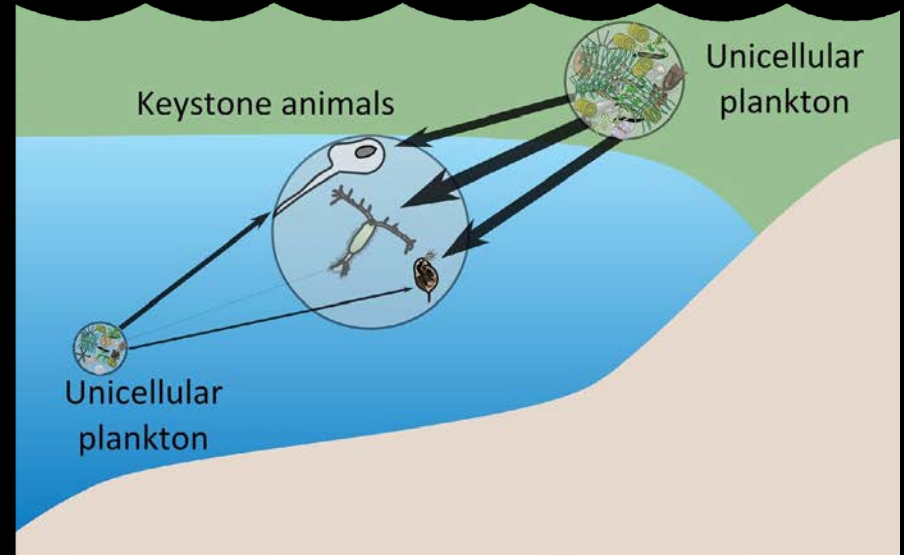
Wrapping it up



Environmental switch



Carbon flow rewiring



- Weighted Overlap as indicators of environmental-driven change
- This would not have been possible using a co-occurrence network
- We need to increase our understanding of species-species interactions

Closing remarks

