

Long-term observations from the East Coast as baselines for investigating climate change

Sean Fennessy



Fisheries-dependent

- Commercially harvested oysters, northern KZN, ~ 100km: Umgeni - Tugela, monthly, 2002- ; catch, size frequency
- **KZN recreational invertebrate harvesting; voluntary stats 1974 -2002; EZNW creel surveys 1995-2016; quarterly surveys 2001- ; CPUE, composition**
- Tagging programme; 1984- ; fish movement, growth
- **iSimangaliso MPA shore-fish monitoring; 2001- ; CPUE, composition, size, movement**
- Pondoland MPA reef-fish monitoring; 2006- ; CPUE, composition, size, movement
- **DAFF NMLS; recreational 1984-2016; commercial 1990- ; CPUE, composition**
- KZN boat launch site monitoring system; 2004- ; effort
- **DAFF sardine beach-seine 1970s-; crustacean trawl 1990- ; pelagic longline 2000- ; CPUE, composition, size frequency**
- KZN Sharks Board gillnets; 1950s - ; composition, size, SST

Fisheries-independent

- KZN mussels - 4 sites, biannually since 1993; % cover, size, recruitment
- Long-term coral reef monitoring; 1993 - ; temperature, % cover, composition, recruitment, mortality
- SANBI coral bleaching; max. 16 sites, annual, 2005 - ; frequency, temperature
- EKZNW stranding monitoring; 2008- ; frequency, composition
- EKZNW turtle nesting; northern KZN, 1963 - ; frequency, composition, sex ratio
- EKZNW estuary mouth status 1993 - 2016
- EKZNW intertidal (7) + subtidal (6) invertebrate monitoring; 2008 - ; % cover, composition, temperatures 4 sites since ~2002
- CSIR outfalls – Durban, Richards Bay, Umkomaas; 1970s/1980s; water chemistry, water quality at control sites
- UniZulu/ORI – St Lucia monitoring: 2001- ; Mfolozi: 2007- ; composition of macro/benthos, water quality
- SAIAB eggs/larvae; Park Rynie, 1990-2015; composition, abundance



Contents lists available at ScienceDirect

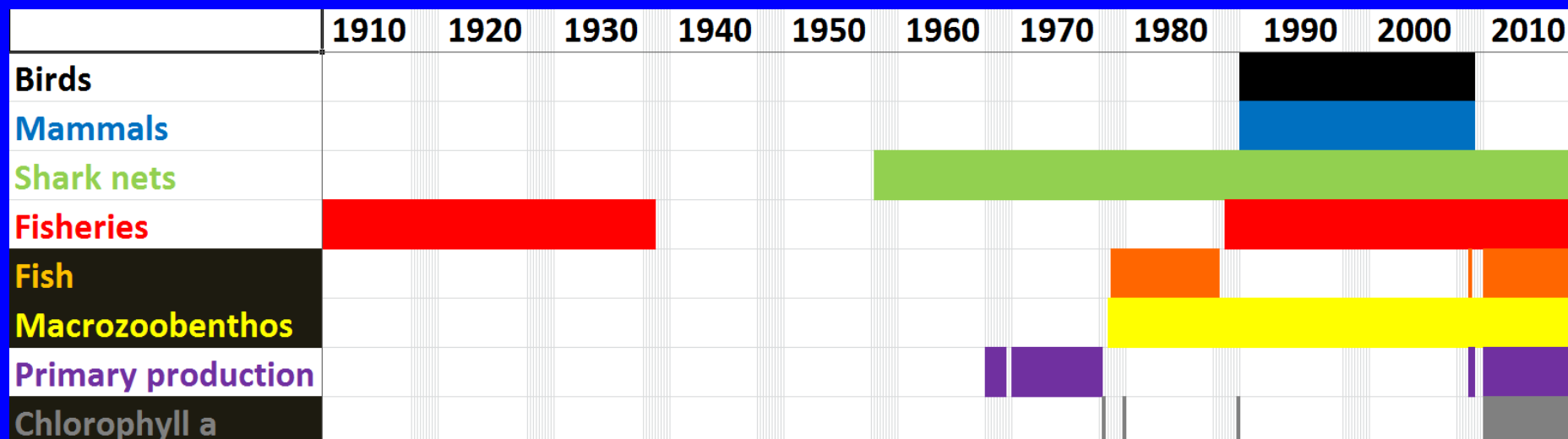
Journal of Marine Systems

journal homepage: www.elsevier.com/locate/jmarsys



Use of sensitivity and comparative analyses in constructing plausible trophic mass-balance models of a data-limited marine ecosystem – The KwaZulu-Natal Bight, South Africa

Morag J. Ayers*, Ursula M. Scharler



ORIGINAL PAPER

Long-term dynamics of a high-latitude coral reef community at Sodwana Bay, South Africa

S. N. Porter¹ · M. H. Schleyer¹

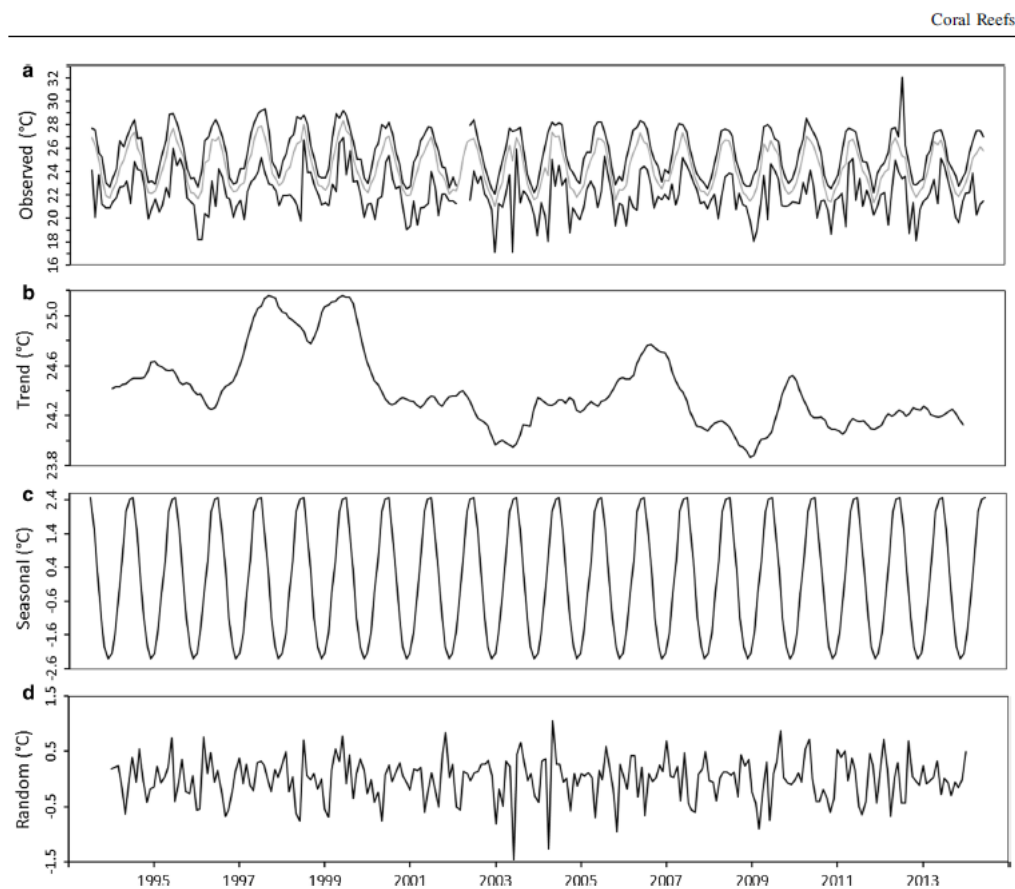


Fig. 2 a Mean, minimum and maximum monthly sea temperatures at a depth of 18 m at the monitoring site on Nine-mile Reef, Sodwana Bay. Monthly mean temperatures decomposed into b trend, c seasonal and d random components

Questions?