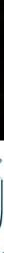
Vulnerability of fynbos fishes to climate change and other human impacts

Jeremy Shelton, Tumisho Ngobela, Bruce Paxton, Dean Impson, Karen Esler, Olaf Weyl, Helen Dallas

























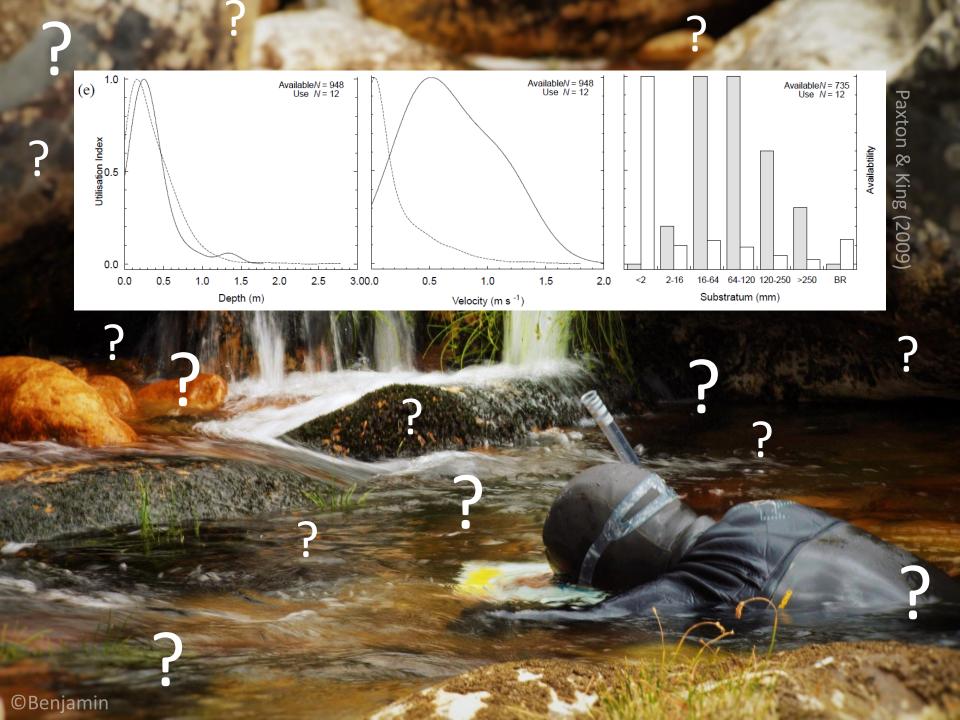


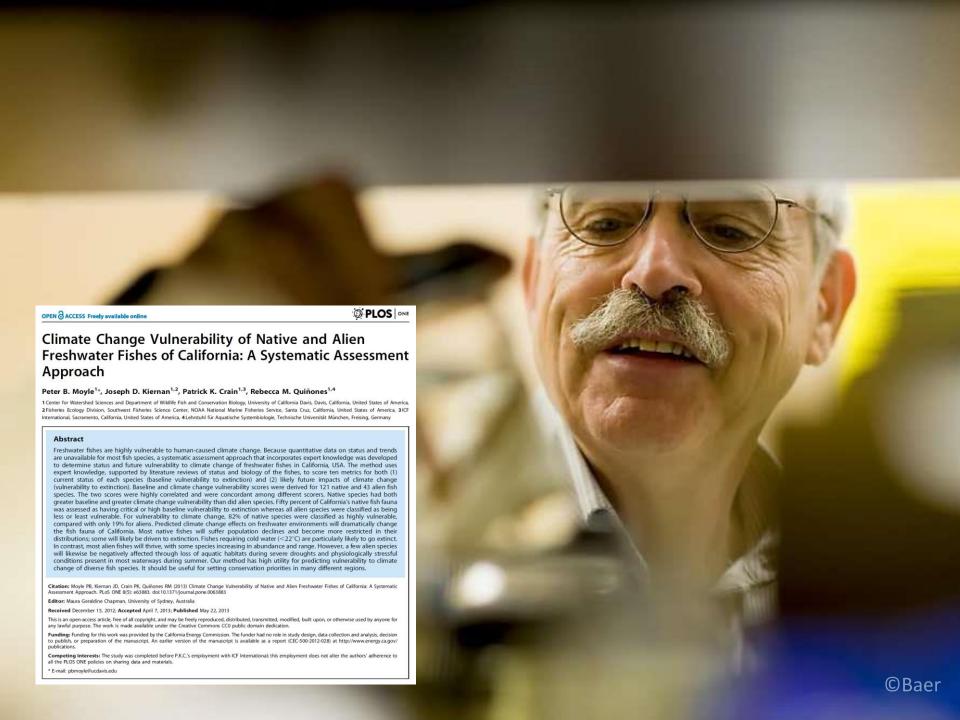












INFORMATION



METRICS



RATINGS



PROJECTIONS



Be: 1 2 3 3 1 1 Be: 1 1 2 2 3 3 1 1	2 3
Be: 1 2 3 1 Be: 1 2 3 3 1	2 3
Be: 1 2 3 1 Be: 1 2 3 3 1	2 3
3 Bee 1 2 3 1 Bee 1 2 3 3 1	Alt
Be: 1 2 3 1 Be: 1 2 3 3	Alt
1 2 3 1 Be:	Alt
1 2 3 1 Be:	2 3
1 2 3 1 Be:	2 3
1 2 3 1 Be:	2 3
2 3 1 Be:	2 3
3 1 Be:	2 3
1 Be:	2 3
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	est Alt
2	
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T	
Be	est Alt
2	
3	
- 1	2 3
	B 1 2 3 4

	odule 1: baseline vulnerabilit	3 (12)	Sco	
1	Current population size (last 10 y	vrs.)	Best	Alt.
	<100	1		
	100–500	2		
	500-1,000	3		
	1,000-10,000	4		
	10,000-50,000	5		
	>50,000	6		

Module 2: climate change vulnerability (Vc)

1	Physiological/behavioral tolerance to temperature increase	Best	Alt.
	Very low 1	0	
	Low 2		
	Moderate 3		
	High (likely to benefit) 4		
Се	ertainty: (low = 1 high = 3)	1 2	2 3

INFORMATION



METRICS

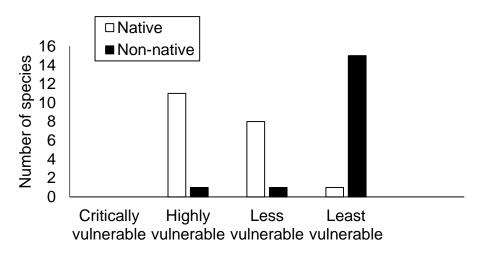


RATINGS

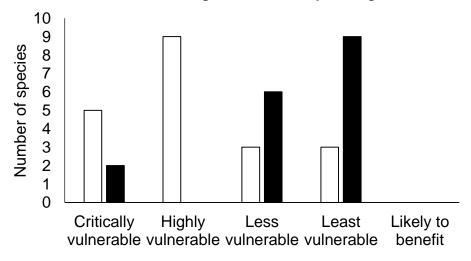


PROJECTIONS

Baseline vulnerability rating



Climate change vulnerability rating





INFORMATION



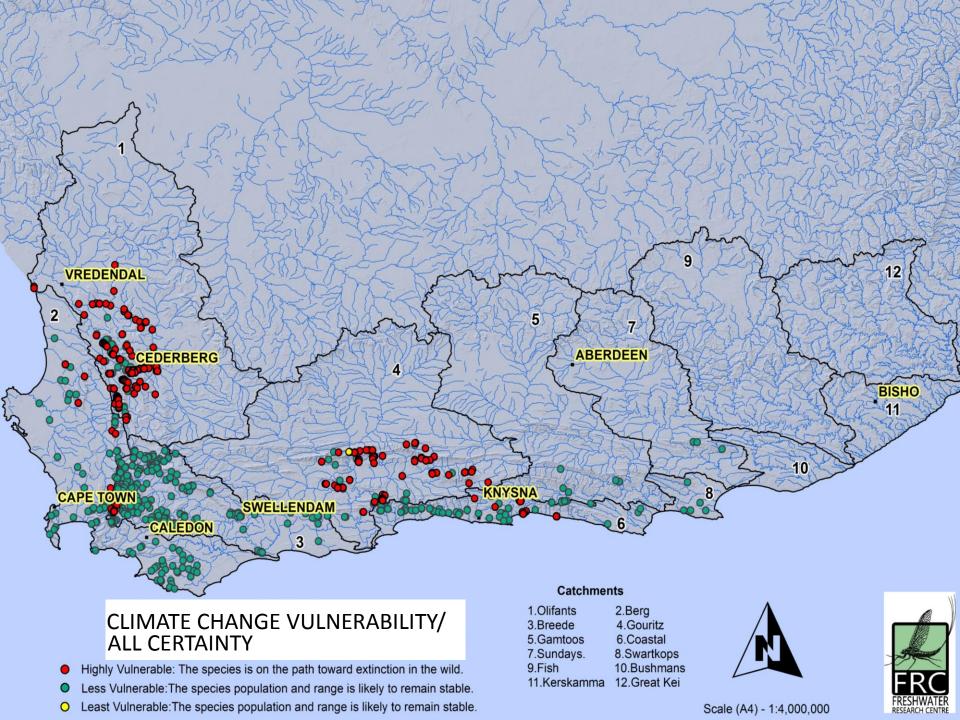
METRICS

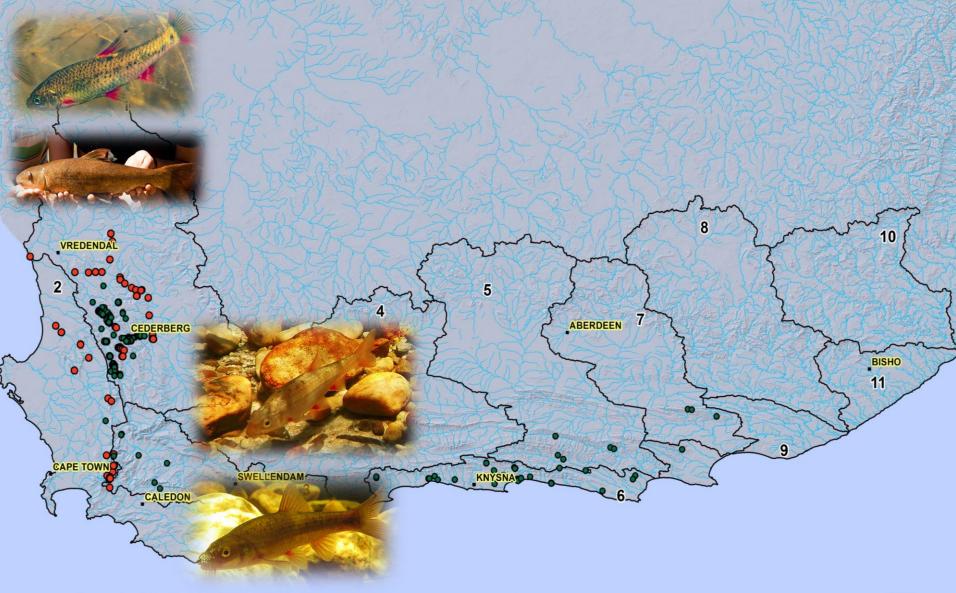


RATINGS



PROJECTIONS





CLIMATE CHANGE VULNERABILITY/ HIGH CERTAINTY

- Highly Vulnerable: The species is on the path toward extinction in the wild.
- Less Vulnerable: The species population and range is likely to remain stable.

Catchments

- 1. Olifants 2. Berg
- 3. Breede 4. Gouritz
- 5. Gamtoos 6. Coastal
- 7. Sundays 8. Fish
- 9. Swartkops 10. Great Kei

11.Kerskamma



Scale (A4) - 1:4,000,000



