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## Fish movement, recruitment and assemblage structure at the Murray Barrages 2006–2012





Chris Bice\* and Brenton Zampatti





#### Migratory fish community

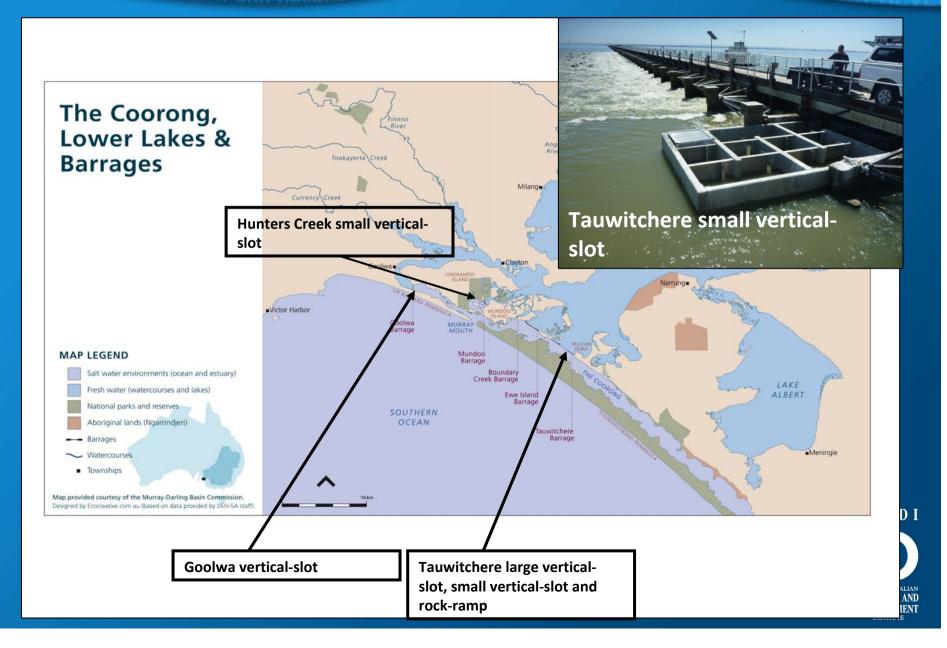


**Estuarine/marine** 

**Freshwater** 



## Barrages and Fishways



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- 1. How does variability in freshwater discharge impact recruitment and abundance of diadromous fish?
- 2. How does variability in freshwater discharge influence fish assemblage structure?



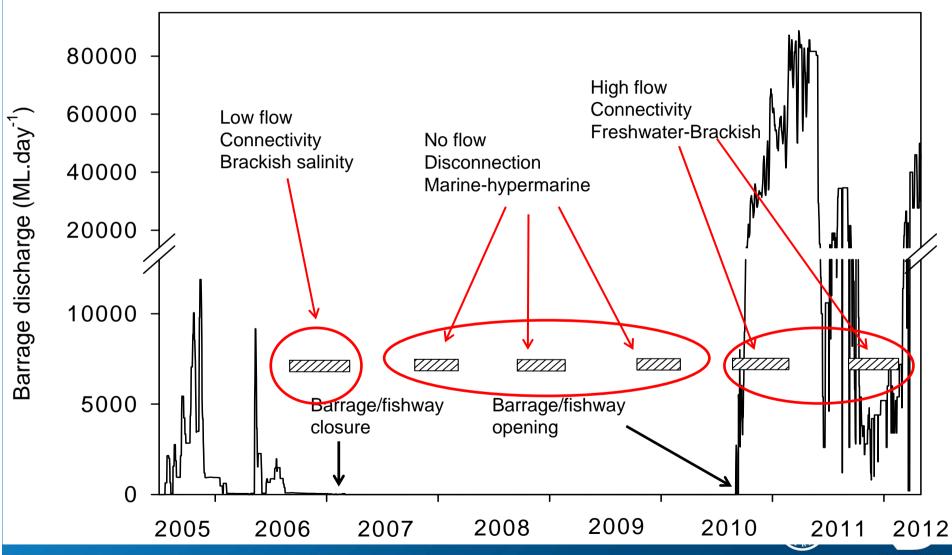


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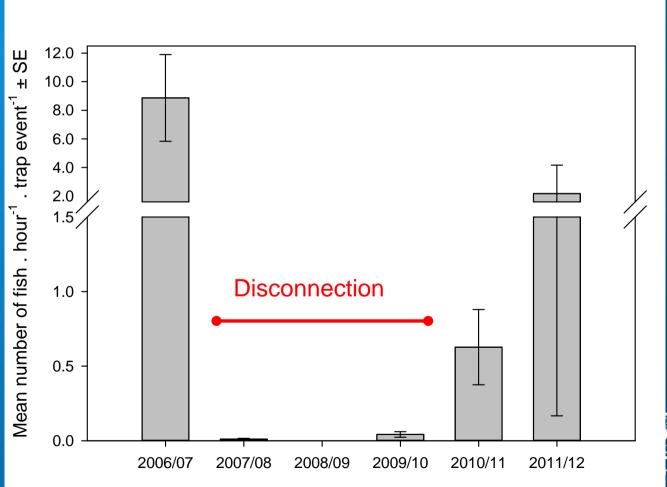


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# 1. Flow variability and diadromous fish recruitment

Congolli









#### 2. Fish assemblage structure: 2010-2012



Mulloway

elopment institute south australian research and levele Recovery?

- Difficult to define for estuarine fish
- Estuarine fish assemblages are highly variable
  - No ideal "stable state"
  - Importance of long-term datasets
- Current assemblage indicative of an estuary with freshwater influence





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Thank you



Chris Bice Inland Waters & Catchment Ecology SARDI Aquatic Sciences



