Fire Effects on Wading Bird Foraging Habitat and Resources











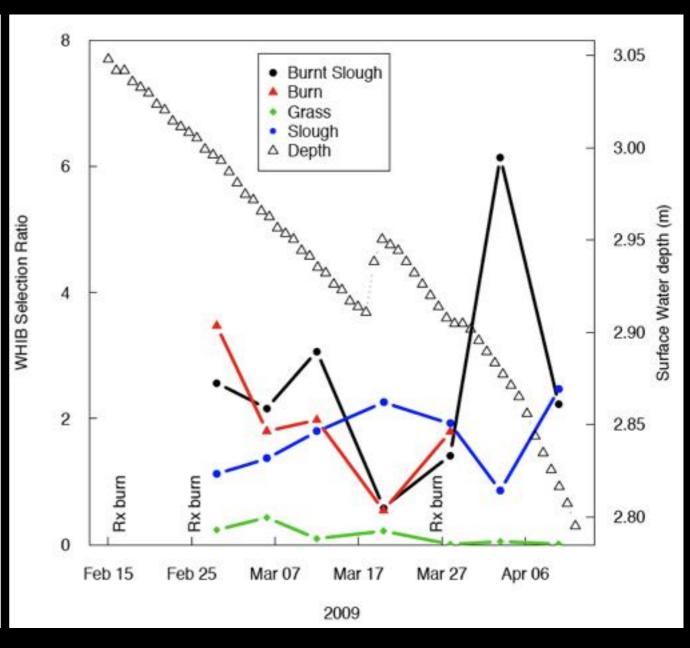


Do Birds Select Burns?

Great Egret

3.05 Burnt Slough Grass Slough 3.00 △ Depth Surface Water depth (m) GREG Selection Ratio Andrew An 2.95 3 2.90 2 2.85 Rx burn Δ 2.80 Feb 15 Feb 25 Mar 27 Mar 07 Apr 06 Mar 17 2009

White Ibis



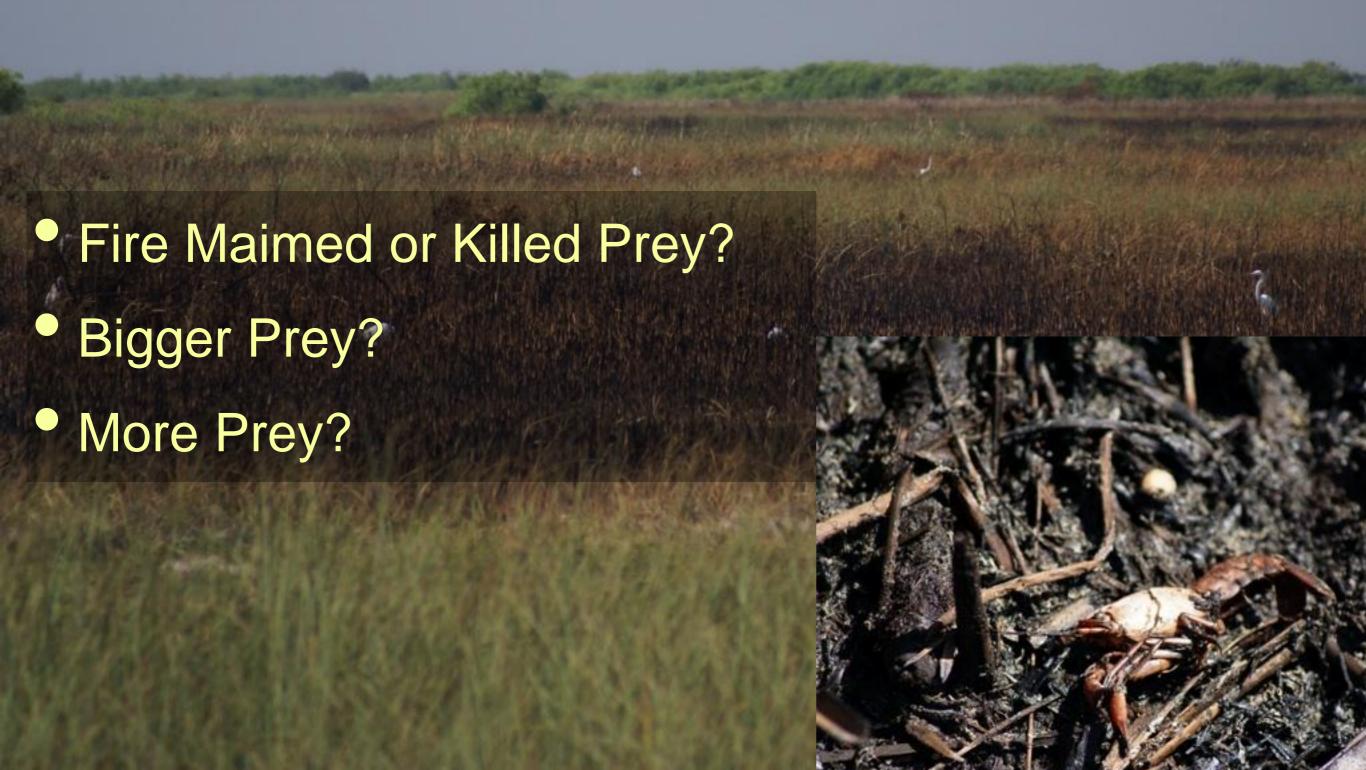
Egret Foraging Success?

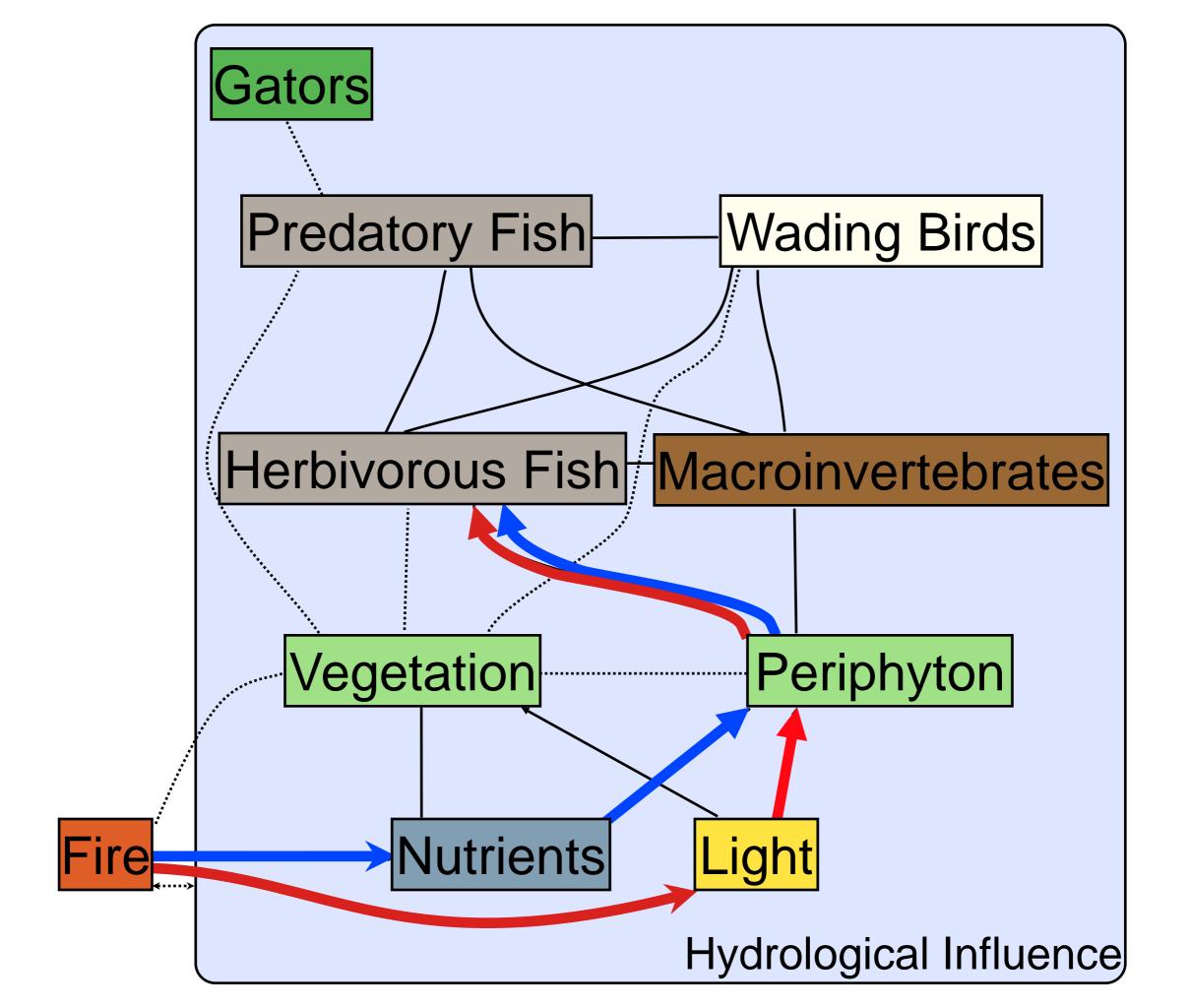
- Capture rate greater in burnt sloughs
- Capture efficiency higher in burns



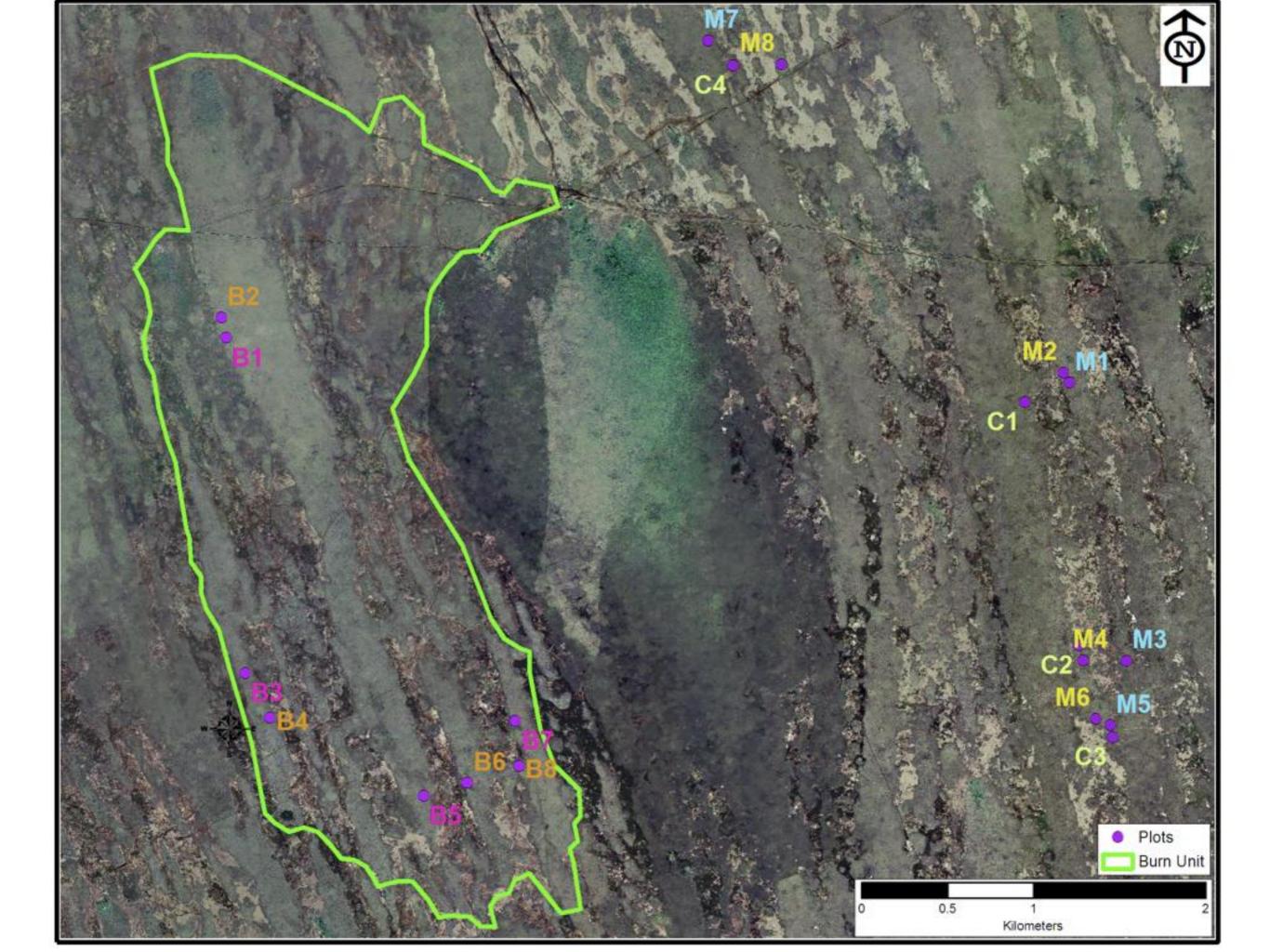


Why are birds attracted?

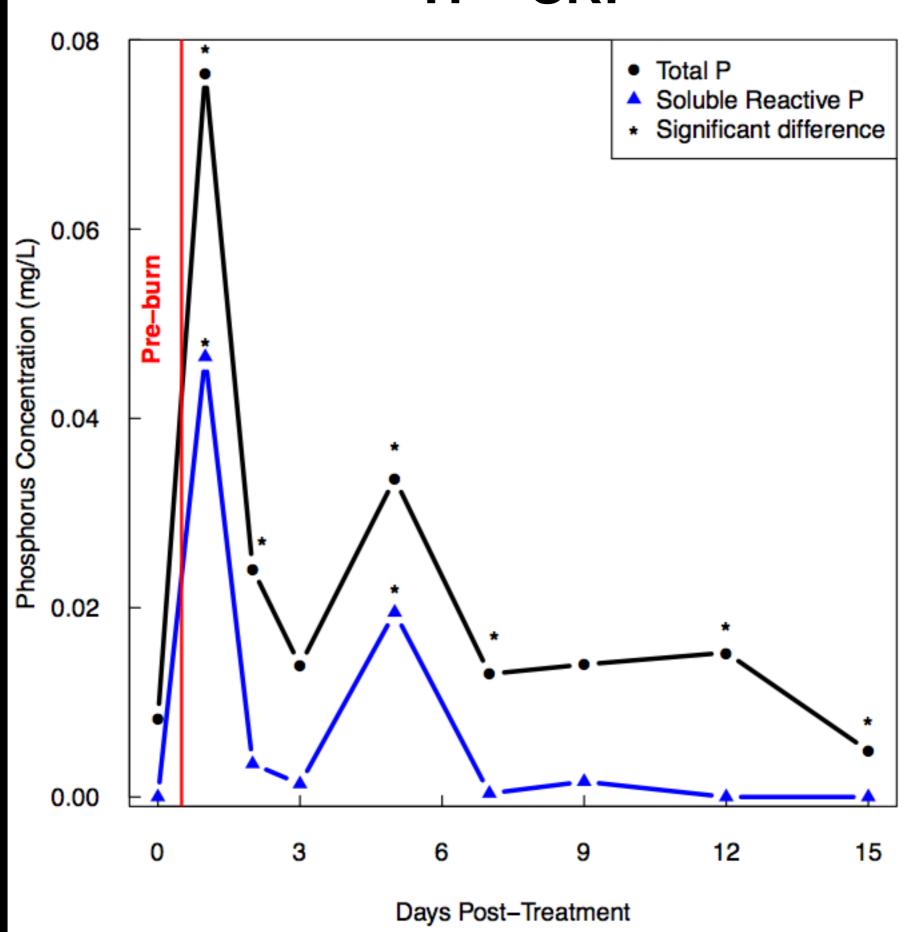




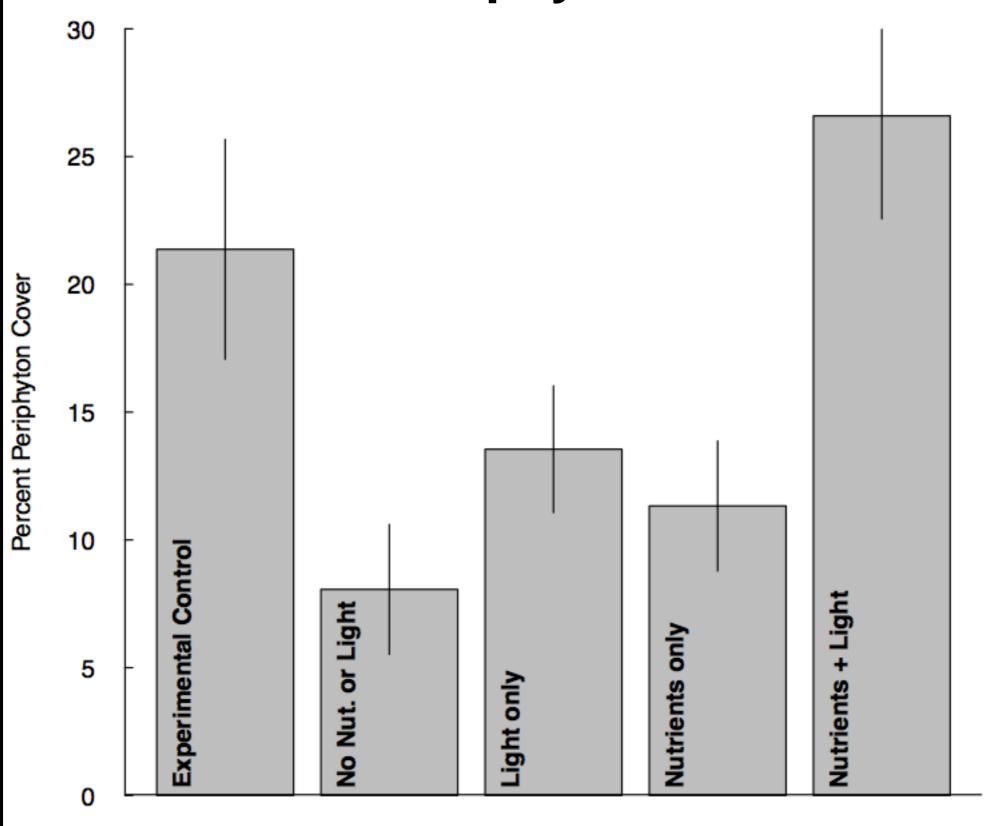




TP - SRP

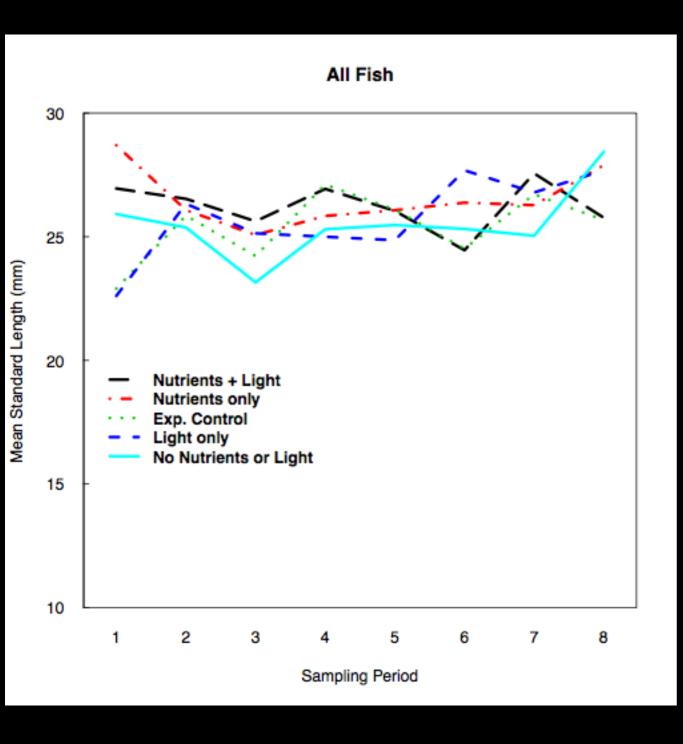


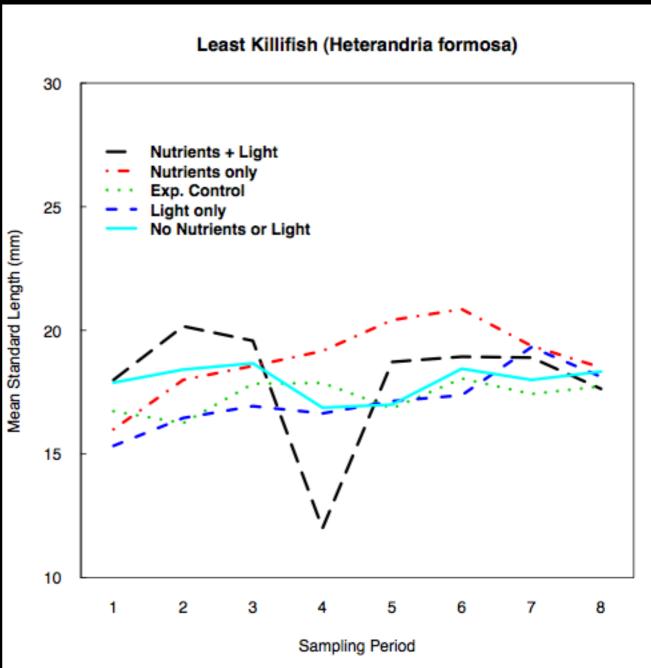
Periphyton



$$\chi^2$$
=16.7, p=0.002

Fish





Fire Effects

	Water	Periphyton	Fish Metrics
No Nutrients or Light			
Light			
Nutrients	+		+/-
Nutrients + Light	+	+	+/-

Fire Effects on Wading Birds

- Periphyton increase
- Fish no response
- Wading birds select burned areas
- Great egrets more efficient foraging in burns
- Greater prey accessibility

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