

## Lecture 17: Interspecific Competition and Extinction risk in African wild dogs

### Outline

Status and distribution of African wild dogs

Wild dog ecology

Prey species overlap between wild dogs, hyenas and lions: reliance on *same resources*

**Density compensation** among ecosystems

**Competitive exclusion** of wild dogs where lions & hyenas are most common

Hyena effect - interference competition at carcasses and energetic stress

Lion effect - direct predation as severe form of interference competition.

Extinction risk model - effects of change in mean lion density

- effects of change in variance of lion density

An interaction between wild dogs and lions - note the dog on the left that is being rushed by the lion. It's packmates attempt to help, but can do little.

