Multitemporal habitat use: a case study with Eurasian and American badgers in Mediterranean oak woodlands

CONTACTS: Dr. Susan Ustin slustin@ucdavis.edu Maria J. Santos mjsantos@ucdavis.edu

Studies of **wildlife habitat relationships** are complicated by the spatial and temporal complexity of habitat use. Radio-tracking data collected over a certain time period is often matched with uni-temporal definitions of land cover units or other environmental parameters. In this study we aimed at determining how is our understanding of habitat use by two badger species affected by using environmental data collected at three temporal resolutions:

(i) uni-temporal data collected in the summer,

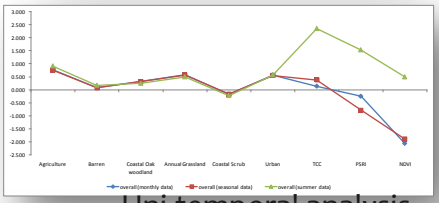
(ii) seasonal data collected once per season,

(iii)) multi-temporal data collected each month.

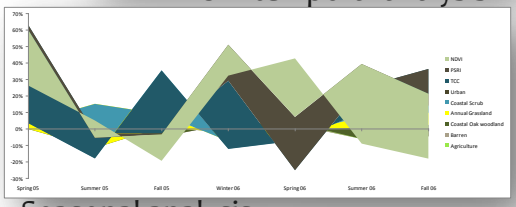
Goal: Use multi-temporal imagery to detect commonalities of badger habitat use in two Mediterranean oak woodlands.

American badger

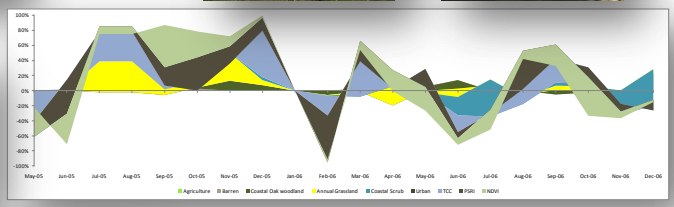
American badger (*Taxidea taxus*)



Uni-temporal analysis



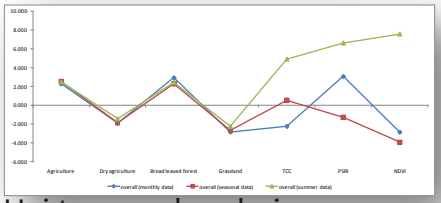
Seasonal analysis



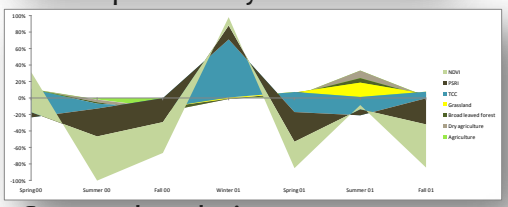
Monthly analysis

Eurasian badger

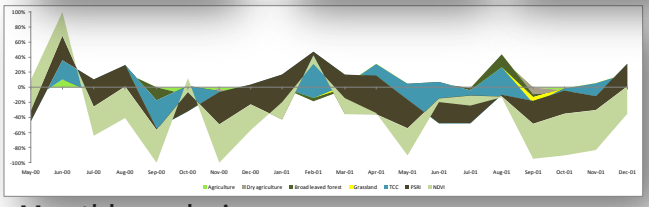
Eurasian badger (*Meles meles*)



Uni-temporal analysis



Seasonal analysis



Monthly analysis

UCDAVIS UNIVERSITY OF CALIFORNIA

Department of Land, Air and Water Resources University of California, Davis