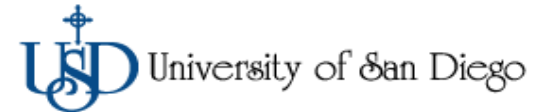


Passive acoustic monitoring of wildlife



Marie Roch,
Deborah Curless,
Shyam Kumar
Madhusudhana

John Hildebrand,
Melissa Soldevilla,
Jessica Burtenshaw,
Elizabeth Henderson

Dan Moriarty,
Elizabeth Baker



Kim Miller

Potentials & Challenges

- abundance
 - population structure
 - distribution
-
- large data sets
 - labor intensive

Species detection

- wild dolphin populations
 - difficult to observe
 - acoustically active
- statistical pattern recognition



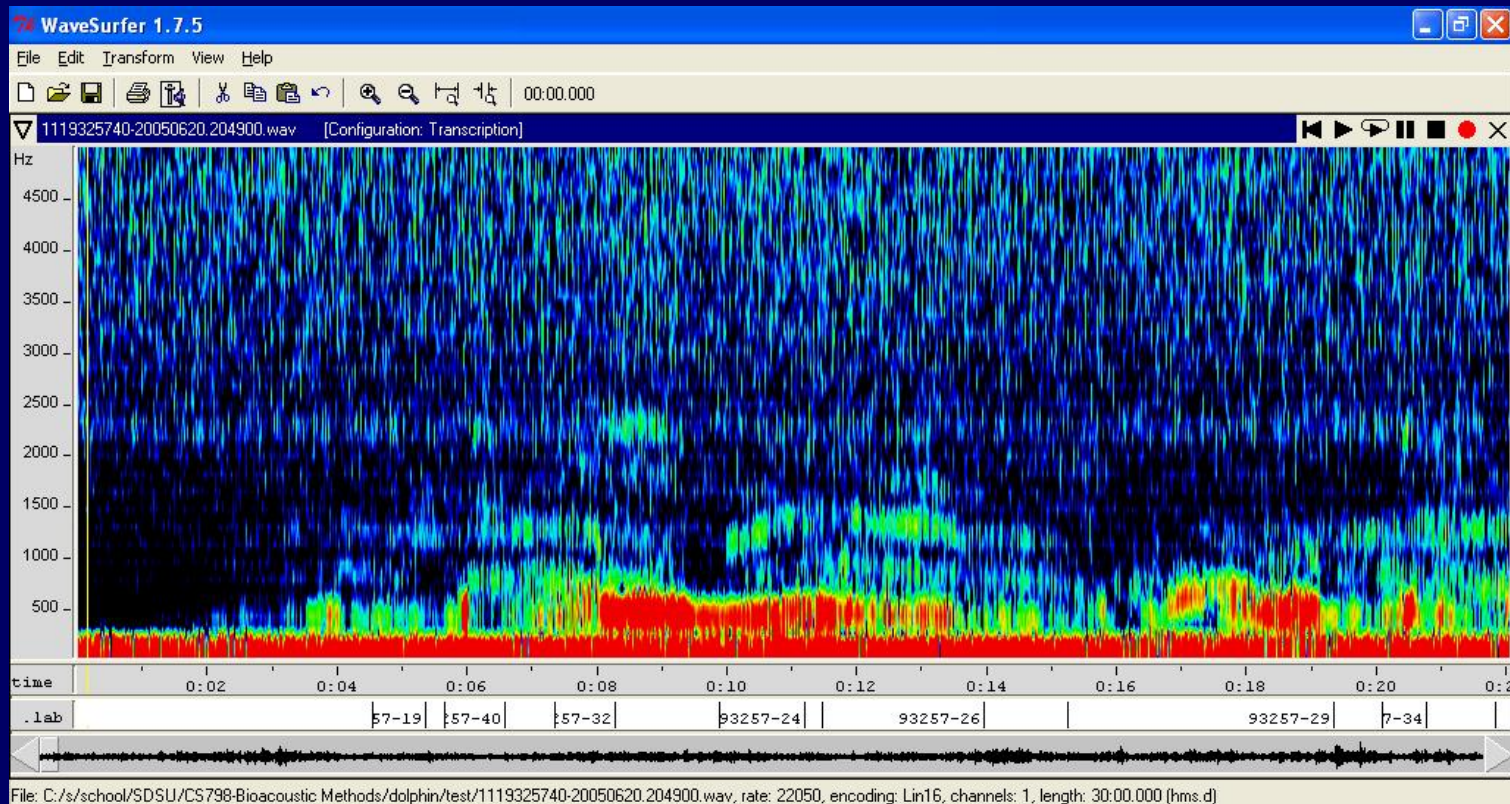
Real time monitoring

- radio equipped buoy
- trial next month on R/P FLIP





California Wolf Center – call detection



Call detection

- future possibilities
 - localization via arrays
 - identification of individuals
 - species detection

Acknowledgements

Office of Naval Research

Hans-Werner Braun – HPWREN



