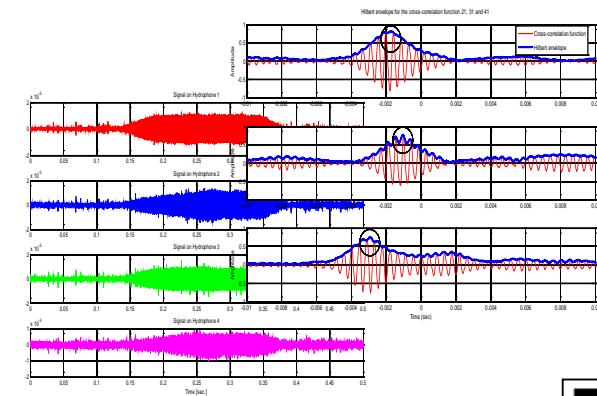
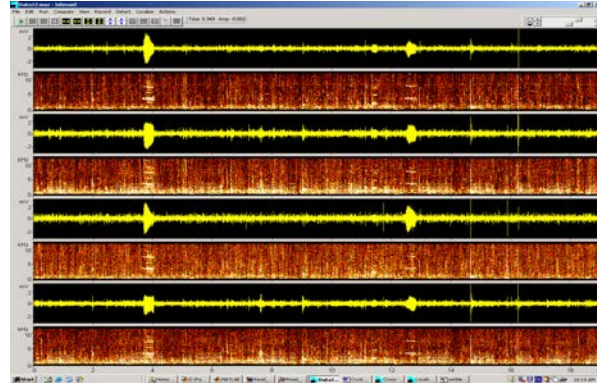
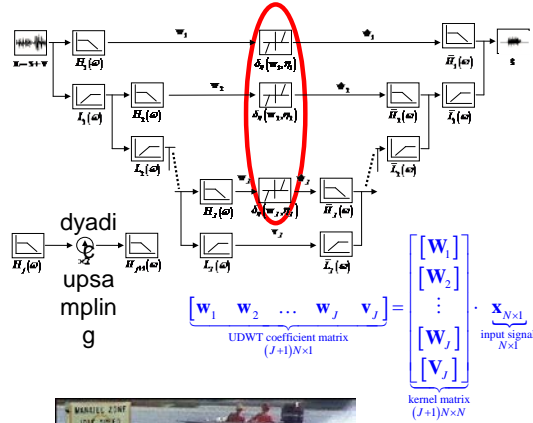




## Manatee Warning System

### Hilbert Envelope Peak Method Undecimated Discrete Wavelet Transform



Acoustic studies have been performed to identify signature of manatees in the presence of many different background signatures commonly found in coastal waters. Detection and source locations algorithms have been developed to design warning systems for the protection of endangered manatees.