**Objectives**

- Enhancement of optical detection systems to get around the obvious limitations of current acoustic detection systems especially increased fleet and port security in noisy littoral waters.

**Technical Approach**

- Analyze the temperature, salinity, chlorophyll, and optical data collected by the NAVO
- Assess the underwater optical transmission loss
- Identify the salinity and chlorophyll effect on the underwater optical propagation
- Implement the Navy’s EODES model for the East Asian Marginal Seas such as the Yellow Sea, East China Sea, South China Sea, and Philippines Sea.
- Identify environmental effect on detection quality in the East Asian Marginal Seas

**Accomplishments –**

5 NPS Theses Completed

September 2016