

### **Lab 1. Wave period (Due April 18)**

This lab should be performed when the wind speed is low so the swell is apparent. Morning before 10 AM is the best time. This can be done at SIO or the Blacks overlook (UCSD Property).

- A. Describe the setup of the experiment. Where are you? Where is the surf?  
How are you measuring the waves?
- B. Perform experiment(s). Record the time as the crest of each wave passes a particular pier piling (> 50 waves).
- D. Make a histogram of the time interval between wave crests.
- E. Calculate the median and mean period of the swell.
- F. How does this compare with the values on the web site (<http://cdip.ucsd.edu>).  
(Go to models and then Southern California. Note the site saves the data from earlier that day.) Do the results agree? If they don't agree, what are some possible reasons for the disagreement?

The lab writeup should be neat, clear, and concise.