uly 24, 2020

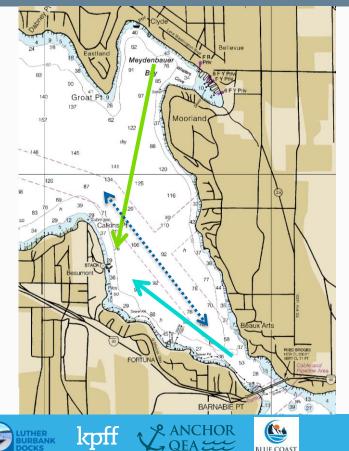
# Luther Burbank Park Waterfront Plaza & Docks

Coastal Processes 101

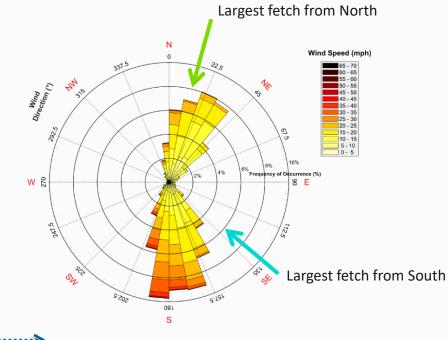








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Path of passing vessels (high speeds)

## Coastal Processes: Floating Breakwaters (1/1)

### Floating Breakwaters let some wave energy through; work best for smaller, choppy waves



### Larger waves



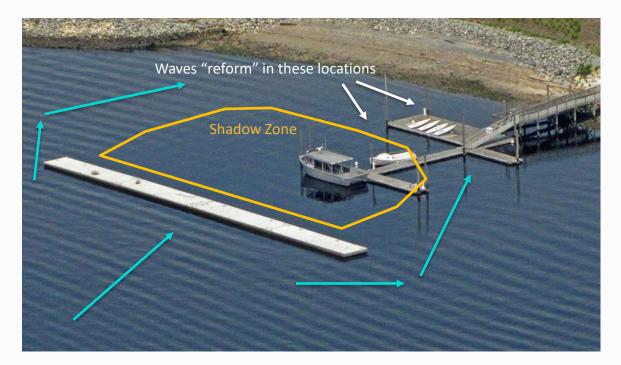
Smaller, choppy waves



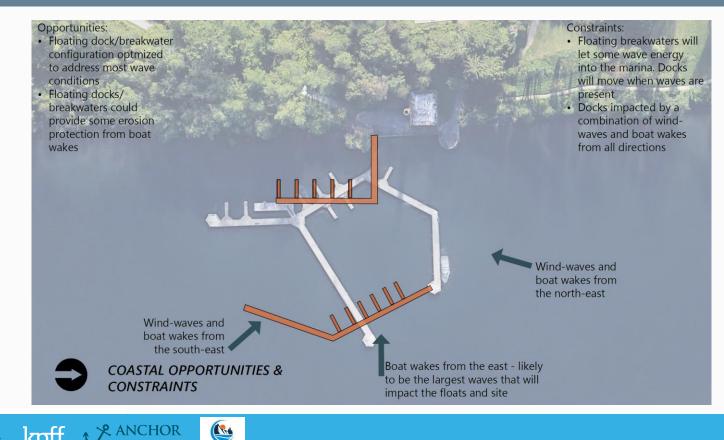
# Coastal Processes: Floating Breakwaters (2/2)

### Breakwaters, including floating breakwaters, work best when they are close to facility

- "Shadow zone" of calmer water occurs on the leeward side on the landward side of the breakwater
- Waves will diffract around the ends of the breakwater and "re-form" some distance landward of the structure
- When you move the breakwater you move the "shadow zone"



### **Opportunities & Constraints: Coastal Processes**



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