Ocean Observatories Initiative Initiative (OOI)
Newport, OR
Community Micro-siting Workshop  Nov.22, 2010
Public Meeting to Receive Input for the Micro-siting of the Newport Line of the Endurance Array
November 22, 2010       HMSC, Newport, OR

Previous Meetings:

July 9, Scoping meeting, Initiation of SSEA, HMSC

Aug.9 – Sept. 30, Public comment on draft SSEA

Sept. 2, Public Hearing, draft SSEA, HMSC, Newport

Open discussions with OR-Dungeness Crab Association and Coastal Conserv. Assoc.
Proposed Endurance Array

- Multi-platform, multi-scale
- Fixed and mobile assets
- Cross-shelf arrays at Newport and Grays Harbor
- Oregon Line cabled to Regional Scale Node
Proposed Endurance Array: Oregon

- Full water column
- Cross-shelf resolution
- Surface buoys for winds & communication
- Benthic platforms
- Gliders

14 fm = Inshore
- waves
- link to nearshore
- buoyancy-driven flows

40 fm = Shelf
- upwelling jets/fronts
- sand/mud bottom
- hypoxia
- wind stress curl

250 fm = Offshore
- poleward under-current
- boundary mixing
- vertical migration
## OOI Proposed Installation Schedule

<table>
<thead>
<tr>
<th></th>
<th>Argentine Basin</th>
<th>Irminger Sea</th>
<th>Southern Ocean 55 S</th>
<th>Station Papa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Global Sites</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Coastal Arrays</strong></td>
<td>Endurance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Regional Arrays</strong></td>
<td>Hydrate Ridge &amp; Axial</td>
<td>Submarine Cable</td>
<td>Primary Node</td>
<td>Sensors</td>
</tr>
</tbody>
</table>

Legend:
- **Installation**
- **Data Flow**
- **Commissioning**
- **Glders Deployed**
- **AUVs Deployed**
**Micro-siting Goal:** Evaluate potential mooring locations within the siting boxes for the proposed Newport Line: inshore, shelf, and offshore mooring locations that meet OOI science/operational requirements and minimize conflicts with regional fishing interests.

**Meeting Objectives:**
1. Review the candidate mooring locations, their associated siting boxes, and the science and operational siting requirements.
2. Review fishing community requirements.
3. Discussion of options for mooring locations within the siting boxes.
Table 1. Science/Operational Siting Requirements for the Newport Line – Inshore (14-fm) Mooring

- soft bottom (clay, silty or sandy)
- at least 0.5 nm (0.9 km) outside of published barge tow lanes
- outside of designated shipping lanes
- in 14-16 fm (25-30 m) water depth
- at least 0.2 nm (0.4 km) and not more than 3.2 nm (6 km) north of the Newport Hydrographic line which runs along 44.65° N.
- >2 nm (3.7 km) from Yaquina Bay entrance (jetties) and navigational markers.
Candidate Inshore Mooring Options (inside box off Yaquina Head)
Agenda – Meeting Format

Introduction (~15 minutes)

Site-specific siting discussion 14 fm (no more than 60 minutes)

Open issue discussion (until 9pm)
Further information …

Bob Collier  rcollier@coas.oregonstate.edu  541-737-4367  
Jack Barth  jbarth@coas.oregonstate.edu  541-737-1607  
Ed Dever  edever@coas.oregonstate.edu  541-737-2749  

COAS - Oregon State University  
104 Ocean Admin Bldg, Corvallis, 97331-5503

http://www.coas.oregonstate.edu/OOIatOSU.html
http://www.coas.oregonstate.edu/EnduranceArrayatOSU.html
http://www.coas.oregonstate.edu
http://oceanobservatories.org/ (click on “NSF Environmental Compliance”)