

Cascade Head Site management plan

Workshop: Community projects and ideas

Held April 16th Lincoln City Community Center

This is a summary of the community's ideas captured in a brainstorming session from the third workshop held as part of the development of the Cascade Head Marine Reserve Site Management Plan. Specifically this workshop was designed to listen and learn about the community's ideas on what projects or research is important to them. We are particularly interested in learning about potential projects that could be led by the community. By highlighting the community's interests and priorities in the site management plans we hope to attract additional research and resources, and to foster community led projects. Community led projects can be focused on any aspect of marine reserves implementation including research, monitoring, economic development, outreach, or education.

Suggestions for types of projects are broken into two categories :

Community Suggested Research: Ideas for research done by non-ODFW scientists that the community supports and is documented in site management plan.

Community Led Projects: Community individual, group, or outside expert lead project. Community provides all support, personnel and resources needed to perform project.

Ideas from the Public

*= number of votes from informal dot poll performed by workshop participants

Ecology - Community Suggested Research

- Study signs of bottom habitat damage
- Document fish and plankton species composition in the water column
- * Study fish movements
 - What species are swimming through the reserve (acoustic tagging?)
 - What species are in the reserves
 - Specifically lingcod movements, both adults and juveniles
 - ***Adult spillover from reserve
 - *Larval and young of the year fish, dispersal and movement
 - **Fish home range study – could use acoustic tags
- Food web and predator prey interactions
 - All aspects of reserve - fish, birds, mammals
 - Specifically suggested about lingcod
- Gather recreational fishing data and present any information already gathered
- ***Oceanographic data – monitor chlorophyll a, temp, pH, oxygen
 - Compare sites
 - Monitor and document hypoxic events
 - *El Nino and other large scale events – effects on productivity?
 - ***Can this be done by vessels of opportunity (i.e., fishing boats)?
 - Note: Issues with revealing fishing locations
- **Fish parasites study

- Black rockfish formerly had lots of parasites but with increased fishing pressure parasites appear to be reduced
 - Study parasite load relationship with fish age, size, growth, environmental conditions and fishing pressure
- *Research on the kelp bed that is in the MPA
- **Genetic work –
 - Understand connectivity of reserves (could use fin clips)
- *Crab research
 - Effect of reserves on crab abundance
- *Workshop for experts to create wish list of long-term research projects
- ***Water quality monitoring – beyond bacteria
 - Herbicides and pesticides effects on species
- *Define and monitor ecological indicators (e.g., water quality, species abundance, oxygen, etc.)
 - Display with graphics for showing status of reserves
- Benthic extraction survey – more sites and frequency than ODFW is conducting
 - Study algae and invertebrates
- Invasive and non-native species survey in reserves
- **Surveys to include Salmon River estuary and very nearshore
 - River is a unique feature of this particular marine reserve – should highlight it
- Study salmon use of the nearshore

Ecology - Community Led Projects

- Citizen Science
 - *Species sighted/location map
 - Photo and species list for reserve
 - ***Monitor intertidal and sandy beach
 - *Whale monitoring – partner with Whale Watch Spoken Here sites
 - *Tap into Camp Westwind for volunteers for projects
 - Sea star wasting disease monitoring
- Birders in area help collect local data
- Marine mammal monitoring with Marine Mammal Institute lead

Human Dimensions

- Certified marine reserves best practices vessel operators
- Research/visitor center
- Business supported fundraiser
- ***Public tours/excursion - hike, boat all aspects – Docent led
 - Charter boat could sponsor
 - Associate with waterfall view (from boat)
- Service project – promote at visitors bureau
 - People come and help research or volunteer to do something to help

Outreach & Compliance - Community Led Projects

- *Volunteers publish stories of helping out with monitoring
- *Blog about marine reserves – videos and stories
- Group or forum (like “Friends of”) to discuss ideas

- Need diverse representation
 - Help with project administration
- *Signs at access points either highlighting benefits or “you are here”
- *Boundaries viewer – ability to get frame of reference for where boundary of marine reserve is
 - Telescope or some kind of other physical viewer
- High definition camera on land to show/pan whole area (boundary area viewer)
 - Could show footage on web
- Adopt a part of marine reserve – advertise in schools to reach parents

Information events:

- *Docent led walks on Saturdays in summer - access beach from Logan Rd. or other access point
 - Tie to Whale Watching Spoken Here, Master Naturalist Program, volunteer naturalists.
 - Camp West wind might be a point of contact
- Information booth at Saturday/farmers market , kite festival, senior fairs
 - Tabling kit with information might be beneficial
- ****Annual celebration –on start of marine reserve date
 - Could have speakers present research and data
- Booth at Dory Days or Blessing of the Fleet?
 - What info would they like if any about the marine reserve?

Information pathways:

- *”Minimize disturbance” language on outreach products – promote best practices – “leave no trace”
 - Use language in all info for guides, businesses, users
 - Could use blog as delivery device
- Present information at city council meeting and commissioner meetings – updates on info
- Information kiosk
- Outreach packet – charters, ecotours, recreation info
- Speaker bureau gathering of “trained people” to give presentations to community groups
- Desk videos and outreach to hotels and other businesses
 - Show underwater video
 - Other brochures or information
- News media - target people who live in the Willamette Valley
- Create “competitions” between reserve sites to help generate interest and content
 - Biggest fish, best photo

Education:

- What is the use of marine reserves by schools?
- Are they promoted and used as living laboratories?
- Does school use of marine reserves contribute to ocean literacy?
- Example crab life history information
- **Curriculum – identify an educator
- Have a liaison for scientists conducting research and schools
- **Make ecological data available for use in educational materials

Outreach & Compliance - Community Suggested Projects

- Exhibit at Oregon Coast Aquarium and HMSC Visitors Center, Sea Grant offices
 - *List/display icon of fish species that also live in the reserve
- Existing research results more widely spread to public/community

ODFW Led:

Suggested projects that ODFW is currently or planning on conducting:

- Determine demand, economic impact, and value of visitation
- Measure economic impact on charter fleet
- Coordinates out to sport fishermen – on Garmin, Fler, Ray Marine platforms
- *Is use of the marine reserve area changing over time?