

A photograph of several orcas swimming in the ocean. The water is a deep blue, and the sky is a pale, hazy blue. The orcas are dark with a characteristic white patch on their chests. The text 'ORCA' is written vertically in a large, bold, purple font on the right side of the image.

ORCA

**2010 WASHINGTON STATE
OCEAN SCIENCES BOWL
UNIVERSITY OF WASHINGTON**

BOWL

Welcome to Orca Bowl 2010!

On behalf of the University of Washington, we welcome all the high school competitors to the 13th annual Washington State Ocean Sciences Bowl, or Orca Bowl. It is our hope that this competition has challenged you to learn more about our planet's most valuable resource — the oceans.



Oceans cover 70 percent of the Earth and affect our climate, economic wellbeing, health, history and culture. They are central to the habitability of the planet and the quality of life on the continents. The ocean environment has been a sustaining force in the lives of Pacific Northwest peoples, from the time of the first inhabitants to the present days of fisheries, aquaculture and container ships.

The University of Washington has a long tradition of commitment to teaching, research and public service in subjects related to marine and freshwater activities. We hope that some of you will join us at the UW and pursue your own career goals in ocean or fishery sciences, maritime engineering or marine affairs and policy.

Penelope Dalton, Director
Washington Sea Grant

Russell E. McDuff, Director
UW School of Oceanography

13th Annual Washington State Ocean Sciences Bowl



*Hosted by Washington Sea Grant and School of Oceanography,
University of Washington.*

Schedule of Activities.....	2
Location of Competition Rooms	3
High School Teams	4
Round Robin Tournament Schedule.....	6
Double Elimination Round Schedule	8
Volunteers.....	10
Regional and National Sponsors.....	11
Contact Information.....	Back Cover



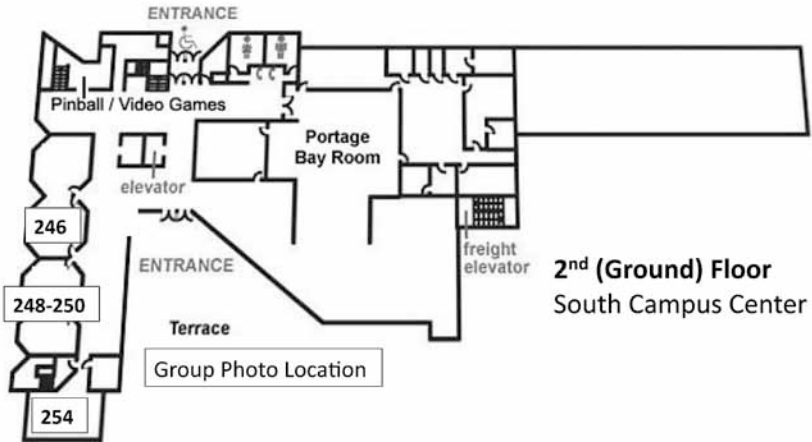
Orca Bowl is the regional competition of the National Ocean Sciences Bowl (NOSB®), presented by the Consortium for Ocean Leadership.

The top team from Orca Bowl 2010 will compete in the NOSB® in St. Petersburg, Florida, April 23-25, 2010.

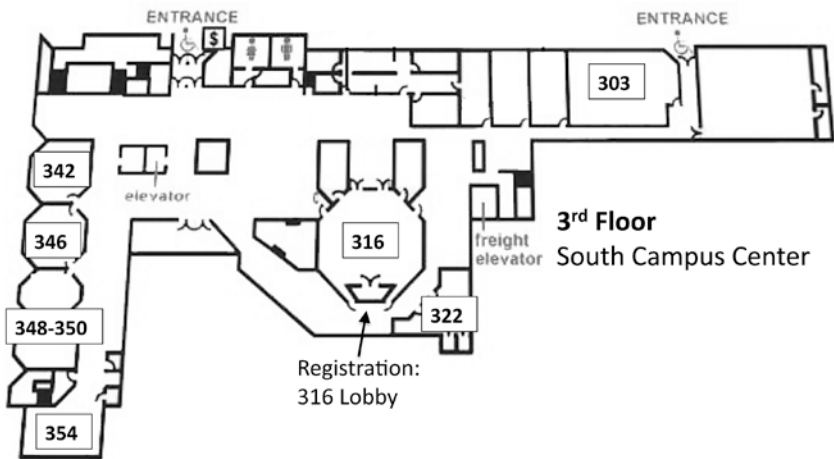
Schedule of Activities — February 6, 2010

8:00 a.m. 316 Auditorium	Check-in and Breakfast <i>High School Teams and All Volunteers</i>
8:15 a.m. 346 Orca Central	Officials Meeting — <i>All Officials</i>
8:45 a.m. 316 Auditorium	Opening/Welcome to UW
9:15 a.m. 2nd Floor Terrace	Group Photo — <i>All Teams</i>
9:30 to 11:30 a.m.	Round Robin Tournament, Rounds 1-4 (<i>See schedule for details</i>)
11:30 to 12:30 p.m. 316 Auditorium	Lunch, Visit booths in Auditorium
12:30 to 2:00 p.m.	Round Robin Tournament, Rounds 5-7 (<i>See schedule for details</i>)
2:00 to 2:10 p.m.	Transition to Double Elimination Tournament
2:15 to 3:15 p.m.	Double Elimination Tournament, Rounds 8-9 (<i>See schedule for details</i>) Visit booths in Auditorium
3:15 to 3:25 p.m. 316 Auditorium	Break, <i>All</i> — <i>Move to Auditorium</i>
3:30 to 4:30 p.m. 316 Auditorium	Double Elimination Tournament, Final Rounds (<i>See schedule for details</i>)
4:30 to 4:45 p.m. 316 Auditorium	Wrap-up Competition — <i>All</i>
5:00 p.m.	South Campus Center closes (<i>pick up a flyer for directions and parking info</i>)
<i>Transition to Seattle Aquarium</i>	
6:30 p.m.	Seattle Aquarium open for entry and sign-up for Tours
6:45 p.m.	Dinner
7:05 p.m.	Welcome and Diver/Tank Show
7:30 p.m.	Award Celebration
8:15 p.m.	Aquarium Tours and Marine Mammal Feeding
9:30 p.m.	Seattle Aquarium Closes

Competition Room Locations



Competition Rooms: 246, 248-250 and 254



Competition Rooms: 303, 316, 322, 348-350 and 354

Auditorium: 316

Orca Bowl Grading: 342

Orca Bowl Central: 346

Participating Teams 2010

Bainbridge High School

Bainbridge Island
Coach: Tom Armentrout
Captain: Derek Acuña
Claire Knox
Kinsey Lowe
Hayley Oakland

Ballard High School – A

Seattle
Coach: Megan Vogel
Captain: Jaysen Niedermeyer
Joanna Corey
Garrett Brenden
Madison Darnall
Matthew Havner

Ballard High School – B

Seattle
Coach: Megan Vogel
Captain: Nathaniel Hegerberg
Duncan Moore
Juanita Perez
Sarah McDowell
Bryce Burchard

Castle Rock High School

Castle Rock
Coach: Ryan Penner
Captain: Kendra Crayne
Kelci Holten
Genevieve Grant
Ashlie Hartsoch
Christina Stephens

ExCEL Academic League

Washougal
Coach: Laurie Chinn
Asst. Coach: Ann Williams
Captain: Annika Horlings
Brita Horlings
Trisha Williams
Heidi Osborne
Hayley Williams

Friday Harbor High School – A

Friday Harbor
Coach: Max Maliska
Asst. Coach: Nick Frazee
Captain: Nick Roberts
Hannah Snow
Mathew Skeel
Stewart Bell

Friday Harbor High School – B

Friday Harbor
Coach: Max Maliska
Assistant Coach: Nick Frazee
Graham Ellis
Audrey Olshefsky
Elle Guard
Gavin Guard

Garfield High School – A

Seattle
Coach: Jonathan Stever
Captain: Francis Lin
Paige Paulsen
Zoe Storck
Victoria Sheffield
Joshua Davids

Garfield High School – B

Seattle
Coach: Jonathan Stever
Captain: Richelle Tanner
Qui Nguyen
Angela Zhang
Haley Sallquist
Lucie Saether

Ocean Research College Academy

Everett
Coach: Ardi Kveven
Captain: Stefanie Write
Sarah Deland
Lindsay LaValley
Brooke Winslow
Gretchen Stroh
Darrick Dickerson

Shelton High School – A

Shelton

Coach: *Brian Ducker*

Captain: *Wendy Gorman*

Amanda McLeod

David Gorman

Christopher Westermann

Bryanna McLean

Shelton High School – B

Shelton

Coach: *Brian Ducker*

Captain: *George Roberts*

Morgan Harvey

Alyssa Mauvais

Arturo Martinez

Garry Smith

Soap Lake High School – A

Soap Lake

Coach: *Matthew Brewer*

Asst. Coach: *Pat Allen*

Captain: *Rosa Rodriguez*

Chad Payne

Nathaniel Stalter

Alex Coreas

Soap Lake High School – B

Soap Lake

Coach: *Matthew Brewer*

Asst. Coach: *Pat Allen*

Captain: *Leo Rodriguez*

Jordon Korolak

Pablo Lopez

Cody Landers

Aliyissa Rose

Winlock High School

Winlock

Coach: *Craig Mitchell*

Captain: *David Hoogkamer*

Jill Craft

Lluvia Barragan

Caleb DeFrates

Bryce Jennings

Post-registration entry, to play
only if a cancellation occurs:

Shorecrest High School

Shoreline

Coach: *Krista Larsen*

Captain: *Kathryn Rice*

Samantha Gwazdauskas

Jenna Keeton

Sydney Stubbs

Round Robin Schedule

ORCA BOWL

PACIFIC DIVISION

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Room Round	246	248-250	254	303
1 9:30 AM	1. _____ vs. 8. _____	2. _____ vs. 7. _____	10. _____ vs. 15. _____	3. _____ vs. 6. _____
2 10:00 AM	13. _____ vs. 14. _____	1. _____ vs. 2. _____	9. _____ vs. 10. _____	3. _____ vs. 8. _____
3 10:30 AM	6. _____ vs. 7. _____	14. _____ vs. 15. _____	1. _____ vs. 3. _____	9. _____ vs. 11. _____
4 11:00 AM	14. _____ vs. 10. _____	7. _____ vs. 8. _____	1. _____ vs. 4. _____	9. _____ vs. 12. _____
5 12:30 PM	7. _____ vs. 3. _____	15. _____ vs. 11. _____	8. _____ vs. 2. _____	1. _____ vs. 5. _____
6 1:00 PM	15. _____ vs. 13. _____	8. _____ vs. 4. _____	2. _____ vs. 3. _____	10. _____ vs. 11. _____
7 1:30 PM	8. _____ vs. 6. _____	2. _____ vs. 5. _____	10. _____ vs. 13. _____	3. _____ vs. 4. _____

TEAMS

ATLANTIC DIVISION

9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

322

354

348-350

BYE

11. _____ VS. 14. _____	4. _____ VS. 5. _____	12. _____ VS. 13. _____	9. _____
4. _____ VS. 7. _____	12. _____ VS. 15. _____	5. _____ VS. 6. _____	11. _____
4. _____ VS. 2. _____	12. _____ VS. 10. _____	5. _____ VS. 8. _____	13. _____
5. _____ VS. 3. _____	13. _____ VS. 11. _____	6. _____ VS. 2. _____	15. _____
9. _____ VS. 13. _____	6. _____ VS. 4. _____	14. _____ VS. 12. _____	10. _____
1. _____ VS. 6. _____	9. _____ VS. 14. _____	7. _____ VS. 5. _____	12. _____
11. _____ VS. 12. _____	1. _____ VS. 7. _____	9. _____ VS. 15. _____	14. _____

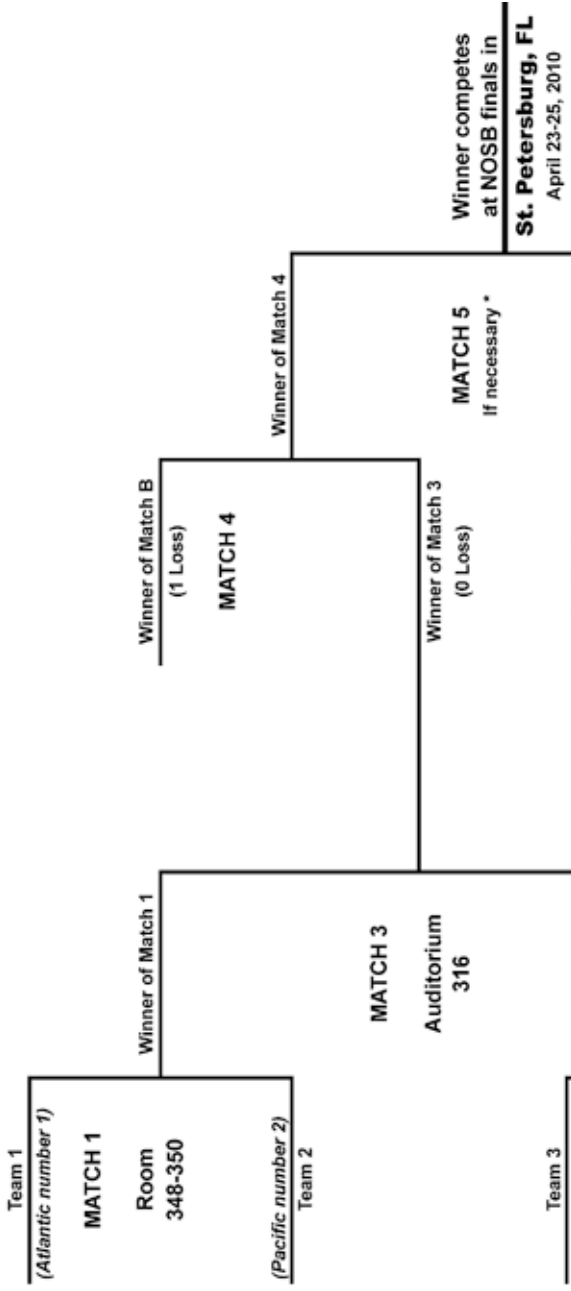
Double Elimination Schedule - PM

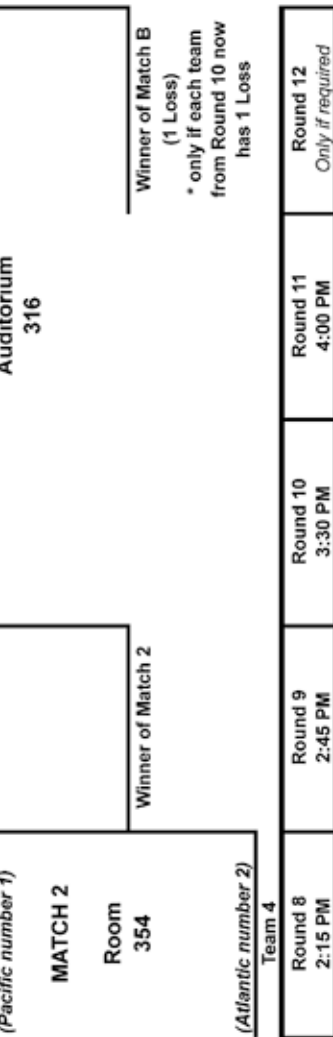
Top two teams from each division of Round Robin competition

In the first round, the number 1 team from Atlantic will play the number 2 team from Pacific, and the number 1 team from Pacific will play the number 2 team from Atlantic.

Match-ups in the subsequent rounds are dependent upon results of each round.

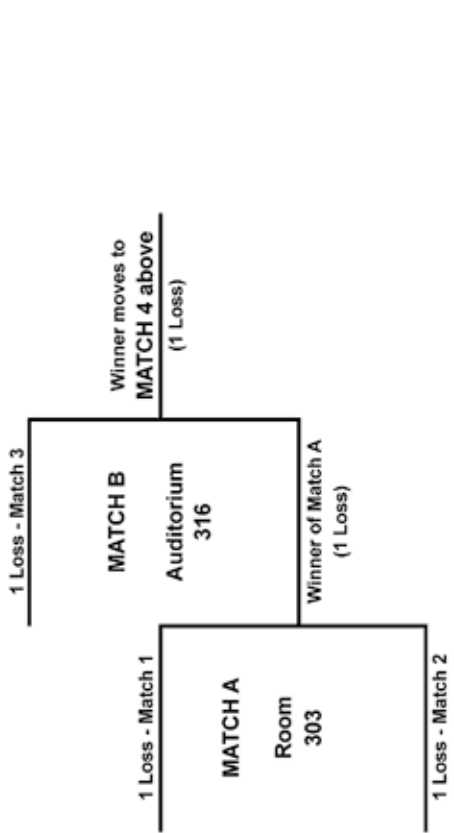
Two-Loss Bracket - Requires Two Losses for Elimination





3:15 PM BREAK Move to Auditorium

One-Loss Bracket - Requires One Loss for Elimination



Orca Bowl Volunteers 2010

Anderson, Sarah
Andrews, Kelly
Barre, Lynne
Berg, Lauren
Berntson, Ewann
Beyer, Emily
Brodland, Melissa
Bullerdick, Susan
Carson, Ron
Chan, Karen
Clay, Tansy
Dalton, Penny
Delavan, Michaela
Djunaedi, Audrey
Fortier, Rosalinda
Gill, Jessica
Glaub, Gretchen
Glenn, Edna
Gordon, David G.
Hahn, Julie
Hamm, David
Hennon, Gwenn
Hennon, Tyler
Higgins, Tim
Hiruki-Raring, Lisa
Howard, Evan
Humphries, Ellie
Jablonki-Diehl, Rebecca
Jansen, John
Jewell, Teresa
Johnson, Orlay
Keil, Rick
Keister, Julie
Kirkpatrick, John
Kleiss, Jessica
Koneva, Marina
Lin, Jocelyn
Lipsy, Rachel Faye

Little, Kate
Moreno, Carly
Moses, Woody
Muto, Marcia
Newell, Jenny
Package, Christina
Pavia, Bob
Perez, Cindi
Perry, Diane
Phillips, Amanda
Purce, Deborah
Ralston, Casey
Rammer, Alan
Regan, Meg
Reichley, Nancy
Ricks, Robyn
Rinehimer, J Paul
Rocap, Gabrielle
Rogers, Alison
Slemons, Lia
Souers, Giovannina
Sprenger, Amy
Stahr, Fritz
Strickland, Richard
Sutherland, Dave
Tetrick, Mark
Tobin, Liz
Van Tulder, Florence
Vukajlovich, Dana
Wain, Danielle
Ward, Eric
Waters, Raechel
Watson, Jordan
Wiesner, Sarah
Williams, Dan
Zimsen, Stephanie

Please thank our regional community of volunteers for contributing their time and expertise to the success of Orca Bowl 2010.

Thank you!

Sponsors 2010

Regional*

Archie McPhee & Co (www.mcphee.com)
Aleutian Spray Fisheries (www.starboats.com)
COSEE Ocean Learning Communities (www.coseeolc.net)
Discovery Sea Kayak (discoveryseakayak.com)
King County Environmental Laboratories (www.kingcounty.gov)
Marine Science and Technology Center, Highline Community College (mast.highline.edu)
NOAA, National Marine Mammal Laboratory (www.afsc.noaa.gov/nmml)
NOAA, Northwest Science Center (nwpsc.noaa.gov)
NOAA, Northwest Regional Center (nwrc.gov)
Northwest Aquatic and Marine Educators, Washington (www.pacname.org)
Pacific Science Center (www.pacsci.org)
Salish Sea Expeditions (www.salish.org)
Seattle Aquarium (www.seattleaquarium.org)
Sound Experience (soundexp.org)
University of Washington College of Ocean and Fishery Sciences (www.cofs.washington.edu)
University of Washington College of the Environment (www.coenv.washington.edu)
University of Washington Applied Physics Laboratory (www.apl.washington.edu)
University of Washington Friday Harbor Laboratories (depts.washington.edu/fhl)
University of Washington School of Aquatic and Fishery Sciences (www.fish.washington.edu)
University of Washington School of Oceanography (www.ocean.washington.edu)
Washington Sea Grant (www.wsg.washington.edu)

National*

The NOSB* is a collaborative effort between the Consortium for Ocean Leadership and the NOSB* host institutions. The NOSB* is generously supported by U.S. government agencies through the National Oceanographic Partnership Program (NOPP) and by corporations, foundations and other non-governmental organizations. NOSB* gratefully acknowledges the support provided by its many sponsors.

Mineral Management Service, Department of the Interior
National Aeronautics and Space Administration
National Oceanic and Atmospheric Administration, U.S. Department of Commerce
National Oceanographic Partnership Program
National Science Foundation
Oceanographers of the Navy
Office of Naval Research, Department of the Navy, Science and Technology
United States Environmental Protection Agency
United States Geological Survey

*List of sponsors as of January 29, 2010

A complete list of sponsors will be posted on the Orca Bowl Web site after the competition.

College of Ocean and Fishery Sciences and College of the Environment: Educational Outreach

The University of Washington is proud to host the 13th annual Washington State Ocean Sciences Bowl. This exciting event is offered as part of Educational Outreach, a commitment to extend University of Washington resources beyond our institutional boundaries.

College outreach involves outstanding individuals of all ages and disciplines. It provides the community with special opportunities for participating in programs, projects and events that employ innovative research, contemporary facilities and state-of-the-art technologies. Please visit our Web sites: *cofs.washington.edu* and *coenv.washington.edu*

This year, Washington Sea Grant and the School of Oceanography are partnering, with support from the School of Aquatic and Fishery Sciences, to provide high school students in Washington a significant educational opportunity. Beyond competition, the students interact with marine scientists, students and professionals who contribute to Orca Bowl.

Washington Sea Grant serves communities, industries and the people of Washington state, the Pacific Northwest and the nation through research, education and outreach. By addressing important marine issues, Washington Sea Grant provides better tools for management of the marine environment and the use of its resources. *wsg.washington.edu*

The School of Oceanography explores the world and its complex ecological systems. The School seeks to understand those processes that shape our oceans by understanding a much broader set of intellectual horizons. Research and education opportunities attract theoreticians, problem solvers, computer specialists, field enthusiasts and those with a passion for learning. Oceanography is a story of curiosity, challenge, entrepreneurship, stewardship and discovery. The undergraduate program draws upon these attributes, provides a program of liberal scientific education and prepares students for graduate school or a professional career in an ocean-related endeavor. *ocean.washington.edu*

The School of Aquatic and Fishery Sciences (SAFS) is dedicated to informing society about the aquatic environment. SAFS seeks to understand natural systems, foster the sustainable use of resources and develop solutions to a broad range of environmental issues. With a world-class faculty, SAFS is frequently ranked first in its discipline and attracts students from across the United States and around the world. It offers a vibrant and collaborative learning environment and a wealth of courses in the aquatic sciences that prepare students for future leadership in transforming the field. *fish.washington.edu*

Contact information

Orca Bowl Regional Coordinator

Julie Hahn, Washington Sea Grant, orcabowl@uw.edu

Orca Bowl Web site

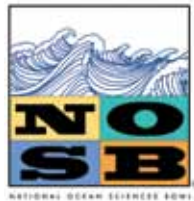
wsg.washington.edu/education/events/orca.html

National Ocean Sciences Bowl Web site

www.nosb.org

National Ocean Sciences Bowl

Today, technological advances allow us to explore and research vast regions of the oceans which until recently were relatively unknown. With these new discoveries comes the potential to improve not only the economic wellbeing of our country but also our quality of life. Now our challenge is to continue the exploration and develop strategies for managing the oceans' resources. The National Ocean Sciences Bowl (NOSB®) is one program that prepares the next generation of marine scientists, policy makers, teachers, explorers, researchers, technicians, environmental advocates and informed citizens to accept this challenge.



National Ocean Sciences Bowl

February 6, 2010

Hosted by Washington Sea Grant and the School of Oceanography
University of Washington