

Shoreline and Marine Boundaries: Datums, Jurisdictions, and Policy



Monterey: October 4 – 5, 2005

CSU Monterey Bay - University Ballroom

Long Beach:

**The Pointe at The Pyramid: October 6, 2005 *and*
Federal Bldg, Long Beach, October 7, 2005**

**Sponsored by: NOAA's National Ocean Service
California Department of Fish and Game
Central Coast Joint Data Committee
Association of Monterey Bay Area Governments**

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Greetings! A workshop has been organized to offer you the opportunity to learn and exchange information about tidal datums, geodetic vertical datums, how they relate, how they impact shoreline and offshore boundaries, and policy implications thereof, such as Marine Protected Area determinations and effectiveness.

Developed by Marti Ikehara, National Ocean Service, NOAA and Paul Veisze, California Department of Fish and Game, Resources Agency, both of Sacramento, CA, the event is 1.5 days in two locations in California: CSU Monterey Bay on October 4 and 5, 2005 and CSU Long Beach on October 6 and Federal Bldg, Long Beach on the 7th.

Entitled “**SHORELINE and MARINE BOUNDARIES: DATUMS, JURISDICTIONS, and POLICY**”, the purpose of this workshop is to bring subject matter experts together from national programs and from the California community for mutual education and discourse on technical practices and applications.

CONTEXT

Tidal datums are the basis for establishing "the" shoreline and international, federal, and state sovereign lands and waters, as well as controlling the location and extent of habitat for tidally-sensitive marine flora and fauna. However, the built environment (development) and floodzone determinations, for example, are based on other vertical datum(s). Because tidal datums are relevant (accurate) to only a local area at the shore, determining elevations related to a uniform, widespread, unshifting, geodetic vertical datum, such as North American Vertical Datum of 1988 (NAVD88), allows vertical data for projects to have a common frame of reference at a regional, or even national, scale.

The target audience is the geospatial professional concerned with elevation data, land/water boundaries and jurisdictions, and associated policies. The first day of the workshop will consist of presentations and two panel discussions. Your input will determine what 3 topics will be discussed, each for an hour in an open format, on the second day. The vision for the second day has been to provide an opportunity for colleagues to discuss issues of concern or interest to themselves. The round-table format is conducive to sharing success stories, problems seeking solutions, and/or feedback to public agencies with legal or jurisdictional responsibilities.

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CSU Monterey Bay - University Ballroom: October 4 - 5, 2005

AGENDA

Context - Theory -- Measurements

(Moderator: Paul Veisze, DFG)

- 08:30 Oct 4: Welcome Mi Ra Park, DFG/CCJDC
- 08:35 Objectives & Introductions Marti Ikehara, NOS/NGS
- 08:45 Tidal and Geodetic Vertical Datums Ikehara, NOS/NGS
- 09:30 Tidal Boundaries and Jurisdictions in California Chuck Karayan, Geolex
- 10:15 Break
- 10:30 VDATUM: Integrating Tidal and Vertical Datums Jason Woolard, NOS/NGS
- 11:00 California Segment of National Baseline Woolard, NOS/NGS
- 11:30 Case study, Part 1: *Elkhorn Slough Wetland Elevations* Eric Van Dyke, ES NERR
- 12:00 Lunch (no-host box w/drink ~\$20)

Applications – Management – Policy

(Moderator: Mary Tsui, Land Systems Group)

- 13:00 Case study, Part 2: *Elkhorn Sl. Ecosystem Management* Eric Van Dyke, ES NERR
- 13:30 Synthesis & Local Perspectives David Revell, UCSC
- 14:00 Marine Boundaries—Best Practices Dave Stein, NOAA/CSC
- 14:15 Break
- 14:30 Panel: National Perspectives Woolard, NOS/NGS
Herrick (Rick) Hanks, DOI/BLM
Lee Thormahlen, DOI/MMS
- 15:30 Panel: State and Regional Perspectives Mike Bell, SLC; John Ugoretz, DFG
Tim Reed, SF Bay NERR; Greg Benoit, CCC
Brian Fulfroost, CCJDC
- 16:30 California Priorities – Open discussion All
- 17:00 Adjourn
-
- 08:30 - 12:30 Oct 5: Focused Discussions (based on attendee voting) All

Shoreline and Marine Boundaries: Datums, Jurisdictions, and Policy

The Pointe at The Pyramid, CSU Long Beach: October 6, 2005 and
Federal Bldg, Long Beach: October 7, 2005

AGENDA

Context - Theory – Measurement

(Moderator: Marti Ikehara, NOS/NGS)

- 08:30 Oct 6: Welcome *Dean's Office, College of Liberal Arts, CSULB
- 08:35 Objectives & Introductions Paul Veisze, CA DFG
- 08:45 Basics of Tidal Datums to be determined
- 09:45 Geodetic Vertical Datums, NAVD88 and NGVD29 Ikehara, NOS/NGS
- 10:15 Break
- 10:30 VDATUM: Integrating Tidal and Vertical Datums Jason Woolard, NOS/NGS
- 11:00 Surfside Colony Land Survey: Historic Tidal Datum, Boundaries, and Accretion
Fred Henstridge, Psomas
- 11:30 California Segment of National Baseline Meredith Westington, NOS/CS
- 12:00 Lunch (no-host box w/drink ~\$20)

Applications -- Management – Policy

(Moderator: Becky Smyth, NOS/CSC)

- 12:45 Case study: *Relationships between Tidal Height and Species Abundances:
Implications for Monitoring Rocky Shores* Steven Murray, CSUF
- 13:30 Synthesis & Local Perspectives Fred Henstridge, Psomas
- 14:00 Marine Boundaries—Best Practices Dave Stein, NOAA/CSC
- 14:15 Break
- 14:30 Panel: National Perspectives Herrick (Rick) Hanks, DOI/BLM
Westington, NOAA/CS; Lee Thormahlen, DOI/MMS
- 15:30 Panel: State and Regional Perspectives Mike Bell, SLC; Chris Lowe, CSULB
Jonathan van Coops, CCC
- 16:30 California Priorities – Open discussion All
- 17:00 Adjourn
-
- 08:30 - 12:30 Oct 7: Focused Discussions (based on attendee voting) All

Shoreline and Marine Boundaries: Datums, Jurisdictions, and Policy Schedule for Day 2

8:00-8:30	Registration
8:30-9:30	Topic 1
9:30-9:45	Break 1
9:45-10:45	Topic 2
10:45-11:00	Break 2
11:00-12:00	Topic 3
12:00-12:15	Wrapup

Monterey Bay, October 5, 2005, CSUMB

1. Legal Cases involving MPA Boundary Issues
2. Legal Cases involving Coastal Ownership or Jurisdictions
3. Wetland Restoration Efforts wrt Elevation/Tidal Determinations

Long Beach, October 7, 2005, Federal Building

1. Legal Cases involving MPA Boundary Issues
2. Legal Cases involving Coastal Ownership or Jurisdictions
3. Permitting/Restricting Development relative to Tidal Datums

Interestingly enough, the selections by voting for each location were quite similar. Thanks to those of you who voted for your interest and for helping to shape the focus of the workshop. This day is an opportunity for you to share YOUR experiences, questions, and solutions, so come prepared to be an active participant. A laptop and powerpoint projector will be available if you want to use visual aids to assist in your discussion.

REGISTRATION

The registration process is as follows:

After 6 AM Tuesday, September 6, 2005, please click on the site-specific link below to register for one or both days at either location.

Monterey - <http://www.surveymonkey.com/s.asp?u=586581289607>

Long Beach - <http://www.surveymonkey.com/s.asp?u=878201289665>

After filling in your name, representation, contact information, etc, please indicate your attendance on Day 1 and/or Day 2, and lunch choice. Registration will be first come, first served with a possible limit for Day 2 in Long Beach. Registration will end no later than September 25, 2005. There will be NO CHARGE for the workshop but you will be asked to pay (\$20), preferably by check made out to California Wildlife Foundation, for your box lunch and break beverages when you check in.

Addresses are as follows:

October 4 and 5:

University Ballroom

California State University at Monterey Bay

100 Campus Center

Seaside, CA 93955-9001

October 6:

The Pointe Conference Room at the Walter Pyramid, California State University at Long Beach

1250 Bellflower Ave, Long Beach, CA 90840

October 7:

Federal Building Long Beach

501 West Ocean Blvd, Long Beach, CA 90802-4213

Inquiries can be made by sending an email to:

Monterey Bay: pveisze@dfg.ca.gov

Long Beach: marti.ikehara@noaa.gov

Shoreline and Marine Boundaries: Datums, Jurisdictions, and Policy
CSU Monterey Bay (4,5 Oct 05) – CSU Long Beach (6,7 Oct 05)
Snapshot Biographies for Speakers, Day 1

Michael Bell, Senior Boundary Determination Officer. California State Lands Commission, Sacramento, CA. Land surveying, land title, water boundaries

Greg Benoit, Assistant GIS Program Manager. California Coastal Commission; Santa Cruz, CA. Coastal land use and resource mapping, image analysis, cartographic design and publication

Brian Fulfrost, Lecturer, GIS Coordinator, University of California Santa Cruz; Santa Cruz, CA. Spatial analysis, environmental science and decision making, policy studies

Herrick (Rick) Hanks, Manager, California Coastal National Monument, DOI Bureau of Land Management; Monterey, CA. Natural & cultural resources manager (and keeper of the more than 20,000 off-shore rocks & small islands of the CCNM)

Fred Henstridge, CA PLS (Professional Land Surveyor) 3258 , Vice President, Corporate Director of Geospatial Services and GIS, Psomas & Associates; Riverside, CA. Land surveying, transportation engineering, project management

Marti Ikehara, California State Geodetic Advisor, NOAA, National Ocean Service, National Geodetic Survey; Sacramento, CA. Geodetic control, tidal and vertical datums, land subsidence, NAVD88 propagation

Chuck Karayan, CA PLS, Geolex Surveying, Consulting & Educational Services, Sacramento, CA. Tidal and water boundaries

Dr. Chris Lowe, Associate Professor, Marine Biology, Director of Shark Lab, California State University Long Beach; Long Beach, CA. Elasmobranch research, movement patterns and site fidelity of game fishes in MPAs, catch and release policy effectiveness, movement patterns of sharks and ulua

Dr. Steven Murray, Professor of Marine Biology, Dean of School of Sciences, California State University Fullerton; Fullerton, CA. Marine intertidal ecology, influence of intertidal elevations on marine population distribution, MPA determinations, MPA effectiveness

Mi Ra Park, GIS Analyst, California Department of Fish and Game; Monterey, CA. Marine resource management

Tim Reed, GIS Coordinator, San Francisco Bay National Estuarine Research Reserve; Tiburon, CA. Marine and estuarine applications of GIS for conservation.

David Revell, Doctoral Candidate, University of California Santa Cruz; Santa Cruz, CA. Coastal geoscientific research

Rebecca Smyth, California Regional Coordinator, NOAA, National Ocean Service, Coastal Services Center, San Francisco, CA. Coordinating California NOAA and partner efforts in ocean observing monitoring programs, Project Manager for Southern CA Coastal Storms Program, Coastal Zone Management issues

Dave Stein, Spatial Data Analyst and Project Manager, NOAA, Coastal Services Center; Charleston, SC. Digital marine boundary and shoreline development, Federal geospatial policy and initiatives, GIS integration and development

Lee Thormahlen, Chief, Mapping and Boundary Branch, DOI Minerals Management Service; Denver, CO. Submerged Lands Act boundaries, coordination with coastal states, marine boundaries, implementation of the Multipurpose Marine Cadastre

Mary Tsui, Principal, Land Systems Group; Monterey, CA. Project management, GIS, permit processing

John Ugoretz, Nearshore Ecosystem Coordinator/Central Marine Region Manager, California Department of Fish and Game; Monterey, CA. Marine Protected Area operations and policy, central coast program management

Jonathan van Coops, Mapping/GIS Program Manager, California Coastal Commission; San Francisco, CA. Coastal land use and resource mapping, image analysis, cartographic design and publication

Eric Van Dyke, Geographical Ecologist, Elkhorn Slough National Estuarine Research Reserve; Watsonville, CA. Marsh elevation monitoring, tidal erosion, historical ecology, coastal imagery

Paul Veisze, GIS Research Manager, California Department of Fish and Game; Sacramento, CA. Marine science, spill prevention, watershed boundaries, geographic names

Meredith Westington, Chief Geographer. NOAA, Coast Survey; Silver Spring, MD. National Baseline, law of the sea, maritime zones, nautical charts

Jason Woolard, Cartographer. NOAA, National Ocean Service, National Geodetic Survey; Silver Spring, MD. VDATUM software, airborne topographic lidar, emerging technologies for coastal mapping