

SPONSORS

The Estuarine Research Federation is grateful to the many sponsors who have stepped forward to support the 2003 conference. Their sponsorships testify to the importance of the work going on at this conference and to the generosity of the estuarine sciences community.

NOAA/NOS/CSCOR Coastal Ocean Program
(www.nccos.noaa.gov/about/cscor.html)

USEPA Office of Wetlands, Oceans, and Watersheds
(www.epa.gov/owow/)

NOAA, NMFS, Office of Habitat Conservation, Ecosystem Assessment Division
(www.nmfs.noaa.gov/habitat/ecosystemassess/index.htm)

NOAA National Sea Grant College Program
(www.nsgo.seagrant.org/)

USEPA NHEERL Gulf Ecology Division
(www.epa.gov/ged/)

NOAA/NOS/OCRM Estuarine Reserves Division
(www.ocrm.nos.noaa.gov/nerr/)

Washington Sea Grant Program, University of Washington
(www.wsg.washington.edu/)

USEPA NHEERL Western Ecology Division
(www.epa.gov/wed/)

NOAA, NOS, Coastal Services Center
(www.csc.noaa.gov/)

American Chemistry Council: Ecological Risk Assessment Sub-Team (ERAST) and Long Range Research Initiative
(www.americanchemistry.com)

The Harken Foundation

Association of National Estuary Programs
(www.anep-usa.org/)

NOAA/NOS/OCRM/NERR Padilla Bay
(www.ocrm.nos.noaa.gov/nerr/reserves/nerrpadilla.html)

In addition, ERF has received generous in-kind donations from the following organizations:

University of Washington, College of Ocean and Fishery Sciences
(www.cofs.washington.edu/index1.html)

Puget Sound Action Team
(www.psat.wa.gov/)



ESTUARIES ON THE EDGE

CONVERGENCE OF OCEAN, LAND AND CULTURE

Welcome Messages	4
Conference Organizers and ERF Officers	6
General Information	7
Interactive Poster Sessions	7
Child Care	7
Message Board	8
Emergency Contact Information	8
Business Office Services	8
Airport Transportation Information	8
Getting Around Downtown Seattle	9
Conference Management	9
Conference Exhibitors and Affiliate Societies	9
Program Information	10
Conference Location	10
Oral Sessions	10
Poster Presentations	10
Workshops	11
Symposia Descriptions	12
Special Session Descriptions	12
Contributed Sessions	16
Special Events, Small Meetings & Social Function Highlights	18
President's Welcome Reception	18
Affiliate Society Meetings	18
NOAA Northwest Fisheries Science Center Reception	18
ERF Student Career Event	18
Women's Aquatic Network (WAN) Luncheon	18
Native American Dinner & Experience at Tillicum Village	18
Alliance for Coastal Technologies (ACT) Reception	18
ERF Business Meeting	18
ANEP and NERRA Social	19
ERF Grand Finale and Student Awards Reception	19
Monday Morning Highlights	20
Monday Morning Plenary Session	20
Estuarine Research Federation 2003 Scientific Award Recipients	20
Northwest Straits Marine Conservation Initiative : Derelict Gear Project	21
Scientific Program	22
Monday, September 15, 2003	22
Tuesday, September 16, 2003	32
Conference-at-a-Glance	40
Meetings and Social Schedule-at-a-Glance	41
Wednesday, September 17, 2003	46
Thursday, September 18, 2003	58
Author Index	65
Field Trips	76
Downtown Seattle Map	78
Washington State Convention & Trade Center Map	79
Poster Hall Map	82

WELCOME TO THE 17TH INTERNATIONAL CONFERENCE

Dear Conference Participant:

Welcome to the premier gathering of estuarine and coastal science and management professionals. Whether this is your first, fifth or fifteenth Federation conference, we believe that you will come away enlightened, enthused and better equipped to do your job and contribute to our challenging field.

Conducting scientific research relevant to the management of coastal systems and successfully communicating that knowledge to peers and to decision makers are the heart of the Federation's mission. As pressures on our estuarine and coastal systems increase, the need for such information is more important than ever.

Since the 2001 Federation conference, we have made progress on several fronts. Briefly,

- **New electronic publication created**

Coastal and Estuarine Science News (CESN), an electronic publication aimed at coastal and estuarine resource managers and decision makers will summarize the scientific findings from selected papers published in our journal *Estuaries*.

- **Lifelong educational opportunities expanding**

Providing support and training for both young scientists and coastal managers are priorities. A program to focus on the needs of recently graduated PhD's was launched in 2002. More programs focusing on young professionals, educators and professionals in -agencies are in the works.

- **Raising the visibility of the profession**

ERF leaders hosted a congressional staff briefing on Capitol Hill, co-sponsored by the American Fisheries Society (AFS). The purpose of the briefing was to promote the use of scientific information in developing federal policies and to raise the visibility of Federation members. We intend to sustain this kind of activity. ERF contributes to the support of the public policy director at the American Institute for Biological Sciences.

The Journal *Estuaries: An International Journal of Coastal Science*

A recent review of journal impact factors calculated from the Institute for Scientific Information data shows that *Estuaries* has an impact factor that exceeds that of many other -coastal and estuarine science journals and our impact has been growing steadily. An *ad hoc* Journal Working Group has identified priority actions that will speed our review and publication processes and expand the scope and impact of the journal. The board is committed to accelerating the quality of journal services and we are interested in your ideas. All of the journal leaders will be in Seattle, please let them know your thoughts.

Face to Face Interactions Advance our Science

We encourage you to participate in the meetings of our seven regional Affiliate Societies. These meetings provide outstanding opportunities to interact with researchers, resource managers and educators. You'll find a friendly mix of students, early career and seasoned scientists who share your enthusiasm for our profession and the well being of our estuaries.

Thank you for being part of this wonderful conference. We hope you enjoy it very much.

Dennis M. Allen
ERF President 2001-2003

Joy Bartholomew
ERF Executive Director

OF THE ESTUARINE RESEARCH FEDERATION

It is my great pleasure to welcome you to ERF 2003 in Seattle!

The ERF 2003 Planning Committee and I are very pleased with the enthusiastic response to this conference from ERF members and others. We believe you will be delighted at the exceptional range of scientific papers and posters, the opportunity to interact with colleagues and new acquaintances, and the wonderful venue for the conference. Those of us who make our homes in the Pacific Northwest always want to show off our region to visitors, and we are thrilled at the chance to introduce so many of you to the culture, the ambience and the heart-stopping beauty of the area. I hope many of you will see some of the natural vistas and resources through our field trips, and perhaps explore the region on your own as well.

We have named this conference *Estuaries on the Edge: the Confluence of Ocean, Land and Culture* because we see our west coast estuaries are being on the edge of the Pacific Rim, the edge of the continental shelf, and, sadly, the edge of degradation. We acknowledge and rejoice in the close ties we have in this region to the land, the ocean and the indigenous cultures. We hope that before you leave Seattle you will have breathed in some of the flavor of the Northwest, celebrated the Native American culture, and understood our ties to the ocean.

Finally I want to thank the large number of people who have made this conference possible, starting with my extraordinary planning committee, to the members of the extended committees, and all those who have supported and encouraged us.

I look forward to welcoming you in person.

Andrea Copping
ERF 2003 Conference Chair

PHOTO 3 - Ferry boat in Elliott Bay

Ferry boat in Elliott Bay with Seattle skyline in the background (Photo courtesy Seattle Convention and Visitor's Bureau and Tim Thompson)

CONFERENCE ORGANIZERS AND ERF OFFICERS

ERF 2003

CONFERENCE ORGANIZERS

Conference Chair

Andrea Copping,
Washington Sea Grant
Program, University of
Washington

Program Co-Chairs

Charles Simenstad,
School of Aquatic and Fishery,
Science University of
Washington

Steve Bollens

Department of Biology and
Romberg Tiburon Center for
Environmental Studies, San
Francisco State University

Posters

Jim Brennan,
King County Department of
Natural Resources and Parks,
Seattle

Workshops

Alan Mearns,
HazMat, National Ocean
Service, NOAA

Publicity

Mary Getchell,
Puget Sound Action Team-
National Estuary Program

Scott Redman,
Puget Sound Action Team-
National Estuary Program

Field Trips

Jacques White,
People for Puget Sound-
Restore America's Estuaries

Student Activities

Jan Newton,
Washington Department of
Ecology

Student Volunteers

Cheryl Greengrove,
University of Washington,
Tacoma

Student Judging

Suzanne Strom,
Shannon Point Marine Center

Jeannie Gilbert,
Western Washington
University

Student Travel

Paul Carlson,
Florida Marine Research
Institute

Flo Thomas,
University of South Florida

Program Committee

Jim Brennan,
King County Department of
Natural Resources and Parks,
Seattle, WA

Doug Bulthuis,
Padilla Bay National Estuarine
Research Reserve, Mount
Vernon, WA

Glenn Cannon,
University of Washington,
Seattle, WA

Colin Levings,
Department of Fisheries and
Oceans, Vancouver, B.C.,
Canada

Lisa Lucas,
U.S. Geological Survey, Menlo
Park, CA

Parker MacCready,
University of Washington,
Seattle, WA

Alan Mearns,
NOAA-HazMat, Seattle, WA

Jan Newton,
Dept. of Ecology, Olympia,
WA

Fred Prahl
Oregon State University,
Corvallis, OR

Scott Redman
Puget Sound Action Team,
Olympia, WA

Jennifer Ruesink,
University of Washington,
Seattle, WA

Steve Rumrill,
South Slough National
Estuarine Research Reserve,
Coos Bay, OR

Randy Shuman,
King County, Seattle, WA

Steve Sulkin,
Western Washington
University, Anacortes, WA

Bruce Sutherland,
Columbia River Estuary
Program, Portland, OR

Jacques White,
People for Puget Sound-
Restore America's Estuaries

Poster Committee

Kollin Higgins,
King County Department of
Natural Resources

Alan Fukuyama,
University of Washington

ERF HEADQUARTERS STAFF

Joy Bartholomew

Janet Barnes

CONFERENCE MANAGEMENT

Helen Schneider-Lemay,
The Schneider Group, Inc.

Lynda West, Project Manager
The Schneider Group, Inc.

ERF GOVERNING BOARD

President

Dennis M. Allen,
Baruch Marine Lab,
University of South Carolina

President-Elect

Linda C. Schaffner,
School of Marine Science,
College of William and Mary

Past President

Anne Giblin,
Ecosystems Center, Marine
Biological Laboratory

Secretary

Lawrence Rozas,
National Marine Fisheries
Service

Treasurer

Walter R. Boynton,
University of Maryland Center
for Environmental Science,
Chesapeake Biological
Laboratory

Member at Large (2002-2006)

Holly Greening,
Tampa Bay Estuary Program

Member at Large (1999-2003)

Peter H. Doering, South
Florida Water Management
District, Coastal Ecosystems

ERF Executive Director

Joy Bartholomew

AERS President

Steve Fuller,
Mary Washington College

NEERS President

Marshall Pregnall,
Vassar University

SEERS President

Alan Lewitus,
University of South Carolina
and SCDNR

GERS President

Mark Peterson,
Gulf Coast Research Lab

PERS President

Brett Dumbauld,
Washington Department of
Fish and Wildlife

CAERS President

Randall L. Brown,
California Estuarine Research
Society

GSLERS President

Sylvie D. St.-Jean,
Environmental and
Aquaculture Interactions,
Fisheries and Oceans Canada
Gulf Fisheries Centre

ERF STAFF

Executive Director

Joy Bartholomew

Chief Operations Officer

Janet Barnes

Communications Manager

Anne Sundermann

Co-Editors in Chief of *Estuaries*

Scott Nixon,
University of Rhode Island

Carlos M. Duarte,
Inst. Mediterraneo de Estudios
Avanzados, CSIC-Univ. Illes
Baleares

Managing Editor of *Estuaries*

Stephen T. Threlkeld

GENERAL INFORMATION

CO-LOCATED MEETING

The Long Term Ecological Research (LTER) Network's 2003 All Scientists Meeting will be held in conjunction with the 17th biennial conference of the Estuarine Research Federation. The LTER meeting will be held at the Renaissance Seattle Hotel from September 18-21. There will be a joint session with ERF (Long-term and Large-scale Patterns in Coastal and Freshwater Aquatic Ecosystems) on the afternoon of Thursday, September 18, in Room 4C1/4C2 at the Washington State Convention and Trade Center. The LTER meeting officially begins on Friday, September 19. Members of both groups will enjoy a joint reception on Thursday evening. Friday's keynote address, "Synthesis and Collaboration: The Tools and Culture of Information Sharing," will be delivered by Dr. O.J. Reichman, Director, National Center for Ecological Analysis and Synthesis. Dr. Anne Giblin of the Ecosystems Center will deliver Friday's plenary address. Dr. Elinor Ostrom, Indiana University, will speak on Saturday, September 20. More details on the agenda and workshops are available on the LTER website (<http://www.lternet.edu>). The LTER meeting will continue through Sunday, September 21.

CONFERENCE REGISTRATION/INFORMATION

The ERF conference/information area will be located at the Washington State Convention and Trade Center in Room 400N and will be open the following dates and time:

Sunday, September 14 3:00–8:00 p.m.
Monday, September 15 7:00 a.m.–7:00 p.m.
Tuesday, September 16 7:00 a.m.–7:00 p.m.
Wednesday, September 17 7:00 a.m.–7:00 p.m.
Thursday, September 18 8:00 a.m.–7:00 p.m.

PHOTO 1 - Abstract Sorting Group

Taking a break from their three-day conference abstract sorting meeting in March are, from left Joy Bartholomew, Jim Brennan, Glenn Cannon, Steve Bollens, Helen Schneider, Doug Bulthuis, Andrea Copping, Carl Young and Charles Simenstad.

REFRESHMENT BREAKS

Refreshment breaks are scheduled in the exhibit area, Room 4E of the Washington State Convention and Trade Center at the following times:

Monday, September 15 10:15–10:45 a.m. & 3:00–3:30 p.m.
Tuesday, September 16 9:45–10:15 a.m. & 4:00–4:30 p.m.
Wednesday, September 17 9:45–10:15 a.m. & 3:00–3:30 p.m.

On Thursday, refreshment breaks will be in Room 400N (Registration Area)

Thursday, September 18, 2003 9:45–10:15 a.m. & 2:30–3:00 p.m.

POSTER SESSION RECEPTIONS

The general poster sessions will be thematic and will run as one session from Monday through Wednesday. Posters will be on display during conference hours over these three days so you won't have to fit your poster viewing into a 24-hour window of opportunity. Considerable time will be available for poster viewing, including more than two hours during lunch on Tuesday. Dedicated, thematic poster sessions that feature the following themes will be held:

Monday 5:00 – 7:00 p.m.
Themes: Ecological Processes; Human Interaction; Estuarine Comparisons
Tuesday 11:45 a.m. – 2:15 p.m.
Themes: Vegetation; Environmental Degradation; Estuarine Fauna
Wednesday 5:00 – 7:00 p.m.
Themes: Large-scale Processes; Physical Processes; Restoration

INTERACTIVE POSTER SESSIONS

Five interactive poster sessions are scheduled on Thursday, September 18. Interactive poster presentations that relate to oral session topics will be integrated into the scheduled oral sessions. Session chairs will facilitate the introduction of each poster presenter's topic. Participants will then be invited to view the posters mounted in the session room and to converse with the poster presenters. Please consult Thursday's schedule for a list of these poster presentations.

CHILD CARE

Arrangements for childcare can be made through PANDA Dial-A-Sitter. PANDA has been in business in the Seattle area for 20 years. Their childcare professionals are licensed and insured. Children will be cared for individually in your hotel room. The cost for one or two siblings is \$63 for the first 4 hours and \$12 for every additional hour. (A 4-hour minimum applies.) Cost includes agency fee. If a parking

fee is incurred by the sitter you will be required to reimburse him/her. For more information and to make arrangements, please call Suzan Shayler at 206-325-2327 or send an email to kzmbmss@earthlink.net. Please note that any arrangements made represent a contractual agreement between the individual and the childcare agency/ provider. ERF assumes no responsibility for the services rendered.

MESSAGE BOARD

A message and general announcement board will be maintained near the conference registration/information desk (Room 400 N of the Washington State Convention and Trade Center) for use by conference participants.

EMERGENCY CONTACT INFORMATION

For medical emergencies, call 911 and inform the front desk at your hotel of the need for assistance. Emergency information is available at each hotel. Routine telephone messages should be left at the participant's hotel. Contact anyone at the conference registration/information area if you need additional assistance.

BUSINESS OFFICE SERVICES

Most of the conference hotels offer business office services. Please ask at the front desk of your hotel for assistance.

AIRPORT TRANSPORTATION INFORMATION

The Seattle-Tacoma International Airport is located approximately 16 miles south of downtown Seattle, about 20-30 minutes by bus, van, taxi, or car. Visitors to the city have several options for ground transportation from the airport to the downtown area. Suggested transportation options are listed below. If you would like more information prior to your trip, including a list of services and some approximate costs, please of visit: <http://www.airwise.com/airports/us/SEA/>. Ground transportation information booths are located at the Sea-Tac Airport at the north and south ends of the baggage claim at Doors 6 and 26.

Shuttle Bus

The least expensive option for getting to and from the airport to downtown Seattle is Gray Line of Seattle's Airport Express shuttle bus service. This service runs on a set schedule departing from the SeaTac Airport approximately every half-hour. The shuttle bus directly serves most of the hotels in the ERF 2003 hotel block and has a connector service that provides transportation to all of the others (with the exception of the LaQuinta). Adult fares are \$8.50 one-way and \$14.00 roundtrip. There is an additional charge if you use the connector service. The least expensive option (\$2.00) for getting to the airport from downtown is Metro

bus from the tunnel (#176 and others. See <http://transit.metrokc.gov/> for routes and schedules)

You can make reservations for Airport Express online, save 5%, and print out your ticket right at your desk. Go to www.graylineofseattle.com to book your reservation and enter the ERF 2003 Conference Group Code: SGM0903mk.

You also can call 800-426-7532 or 206-626-5208 to make your reservations. Airport Express has staffed booths located outside the Sea-Tac terminal at the North end (door 24) and South end (door 8) of the baggage claim level. After regular business hours, tickets may be purchased directly from the driver. From the airport, Airport Express service begins daily at 5:20 a.m. and runs until 11:25 p.m.

The Airport Express Connector Service is available from 5:30 a.m. to 9:00 p.m. to connect passengers to and from locations outside of those served directly by the Airport Express Service. Please call 206-255-7159 or 206-255-7168 one hour prior to needed pick up time for Connector Service. (Please note, these numbers are to request Connector Service pick-up on the day it is needed ONLY. No other information can be given out on this line and reservations cannot be taken for future connector service.)

Shuttle Van

Shuttle vans run almost continuously around the clock, with scheduled departure and arrival times. After you have collected your luggage in the baggage claim area, follow the signs directing you to ground transportation located on the 3rd floor of the parking garage. The Ground Transportation Information Booth is on the third floor, the same level as baggage claim and lower drive level. Shared ride, door-to-door services are approximately \$21.00 per person. For a list of shuttle van services that are available at the Sea-Tac Airport, please visit <http://www.portseattle.org/seatac/transport/shuttlebus.htm>.

Taxi

Taxis are available on the third floor of the airport parking garage as well. To get a taxi at the airport, you may use a courtesy phones or call (206) 246-9999. The fare is approximately \$30 to downtown Seattle from the airport.

Car Rental

If you would prefer to rent a car, AVIS has been selected to be the official car rental company for the ERF 2003 conference in Seattle, and is providing discounts for attendees. To make reservations if you are calling from the U.S., please call (800) 331-1600. If you live outside the U.S., please visit the website www.avis.com for a list of international numbers to call and select Customer Service. You may also contact your travel agent. The AVIS Worldwide Discount Number for the ERF 2003 meeting is: J998420.

Parking

Parking is available at all of the conference hotels. The convention center operates two public parking facilities. The entrance to the center's main parking garage is located on 8th Avenue between Seneca and Pike Streets. There is a 6'5" maximum vehicle height restriction. The garage is open seven days a week, from 5:00 a.m. until midnight. Parking is paid at the time of exit. The Freeway Parking Garage is located next to the convention center, and the main entrance to this garage is at 1300 Hubbell Place (between Seneca and Pike Streets). A pedestrian walkway connects the garage directly to the convention center. The garage's generous 6'9" maximum vehicle height accommodates most full-sized trucks and vans. The Freeway Park Garage is normally open weekdays, from 6:00 a.m. until 9:00 p.m. The garage is normally closed on the weekends. Parking is paid at time of exit.

GETTING AROUND DOWNTOWN SEATTLE

Downtown Seattle is compact, walkable, and pedestrian friendly. Three forms of public transportation are available to visitors, in addition to regular bus and taxi services. The Metro Bus System Underground Tunnel has five stops running from the Washington State Convention and Trade Center through downtown Seattle to the International District adjacent to SAFECO Field. All downtown bus service is free along the bus tunnel or surface streets.

The Monorail will take visitors from Westlake Center in downtown to the Seattle Center. It runs from 7:30 a.m. to 11:00 p.m., Monday through Friday and from 9:00 a.m. to 11:00 p.m. on Saturday and Sunday. The ride is \$3.00 round trip and takes 90 seconds. This is an easy and fun way for visitors to reach the Seattle Center, the Space Needle, Experience Music Project, Pacific Science Center, Seattle Opera House, Key Arena and Pacific Northwest Ballet, Seattle Repertory Theatre, and Intiman Theatre.

The Waterfront Trolley runs the length of the downtown Seattle waterfront, from Pier 69, past the Aquarium, through Pioneer Square and ending in the International District. Passenger tickets cost \$1.25 with on and off privileges anywhere along the route.

CONFERENCE MANAGEMENT

For more information on the ERF 2003 conference, address all correspondence and questions regarding registration, exhibits, conference logistics, and hotel accommodations to:

Helen Schneider Lemay
Registration and Exhibits Coordinator
and Conference Manager
sg Meeting & Marketing Services
5400 Bosque Boulevard, Suite 680
Waco, TX 76710-4446
Phone: 254-776-3550, Fax: 254-776-3767
E-mail: membership@erf.org

CONFERENCE EXHIBITORS AND AFFILIATE SOCIETIES

Alliance for Coastal Technologies
Moss Landing, CA

American Fisheries Society
Bethesda, MD

Astoria-Pacific International
Clackamas, OR

Atlantic Estuarine Research Society (AERS)

California Estuarine Research Society (CAERS)

Elsevier, Inc.
New York, NY

Entrix, Inc.
Seattle, WA

Gulf Estuarine Research Society (GERS)

Gulf of St. Lawrence Estuarine Research Society (GSLERS)

Hydrolab – A Hach Company Brand

Loveland, CO

National Oceanic & Atmospheric Administration NOS/CPRD

Seattle, WA

New England Estuarine Research Society (NEERS)

Pacific Estuarine Research Society (PERS)

RD Instruments
San Diego, CA

Satlantic
Halifax, NS, Canada

Sequoia Scientific, Inc.
Bellevue, WA

Society of Environmental Toxicology and Chemistry
Pensacola, FL

Southeastern Estuarine Research Society (SEERS)

Stevens Water Monitoring Systems
Beaverton, OR

Turner Designs
Sunnyvale, CA

Unidata America
Lake Oswego, OR

WET Labs, Inc.
Philomath, OR

YSI Incorporated
Yellow Springs, OH

PROGRAM INFORMATION

CONFERENCE LOCATION

All scientific presentations (oral and poster), as well as most social functions, will take place at the Washington State Trade and Convention Center in downtown Seattle.

ORAL SESSIONS

There will be seven concurrent oral sessions from Monday afternoon, September 15, through Thursday afternoon, September 18, held in rooms on the second, third and fourth floors of the convention center. Oral presentations are allotted 15 minutes each, to include questions and answer periods. Symposia and special sessions may include one 30-minute presentation. Session chairs will adhere strictly to

the printed schedule to facilitate movement between sessions and to ensure that all presenters and conference participants have the best conference experience possible.

Each oral session room will be equipped with a laptop computer and LCD projector, a 35-mm slide projector, overhead projector, screen and laser pointer. Each room will be staffed by two student volunteers

PHOTO 7 - Monorail

Seen here is the monorail train arriving at the unique structure which houses Seattle's contemporary music museum known as the Experience Music Project. (*Photo courtesy Seattle Convention and Visitor's Bureau and Tim Thompson*)

to assist with all aspects of the presentations. Each speaker should introduce him or herself to the session chair and the student volunteers during the break before the session in which he/she is speaking.

PowerPoint presentations will be loaded into the computers in each room, by a presentation assistance team, according to the schedule listed on the ERF 2003 website, no later than the day before each scheduled presentation. Presenters will have no access to their presentations after they have been submitted to the presentation assistance team in Room 307/308. A speaker ready room will be available in Room 304

from Sunday through Thursday, equipped with computers, an LCD projector, slide projector, and overhead projector; speakers may modify or view their presentations prior to handing them over to the presentation assistance team. Presenters who choose to use slides or overheads should make contact with the student volunteers early to ensure a smooth presentation. We recommend that speakers using slides bring them already loaded into a personal carousel.

POSTER PRESENTATIONS

The general poster session will take place in Exhibit Hall 4E on the fourth floor of the convention center. Additional interactive poster sessions will take place in rooms, 4C-3, 4C-4, 3A, 3B and 4C1-4C2.

Posters in the general session have been assigned to nine different theme areas, which are listed on page XX. All posters will be exhibited from Monday through Wednesday with specific themes highlighted each day. The exhibit hall will be open for poster viewing from Monday morning through Wednesday evening, with specific poster session times scheduled for Monday and Wednesday evenings from 5:00 to 7:00 p.m., and Tuesday mid-day from 11:45 a.m. to 2:15 p.m. Presenters are asked to be available in front of their posters during the specific times (5:00 to 7:00 p.m. or Noon to 2:00 p.m.) on the day their poster is highlighted. Student poster presenters should be available during their assigned times for the student award judges. Presenters may also wish to post additional times when they will be available, on their posters. Dedicated, thematic poster sessions will be held as follows:

Monday 5:00 – 7:00 p.m.
Themes: Ecological Processes; Human Interaction; Estuarine Comparisons

Tuesday 11:45 a.m. – 2:15 p.m.
Themes: Vegetation; Environmental Degradation; Estuarine Fauna

Wednesday 5:00 – 7:00 p.m.
Themes: Large-scale Processes; Physical Processes; Restoration

All posters must be placed on their poster boards between noon and 5:00 p.m. or 9:00 and 10:00 p.m. on Sunday, September 14. Posters should remain up until Wednesday, September 17, when they must be removed between 7:00 and 10:00 p.m. Posters left on boards after 10:00 p.m. on Wednesday will be discarded. Materials to assist in mounting posters, including pushpins and Velcro, will be available at the information desk inside the exhibit hall.

Posters will be grouped in the exhibit hall by theme, with each theme identified by large visible signs overhead, as well as a colorful northwest-themed windsock. The dimensions

of the room are large and these banners will help to orient you to the poster themes and amenities. A layout map of the poster room can be found on page XX; in addition, a color map is available in your packet, and at the entry to the exhibit hall. The information desk in the exhibit hall will be staffed whenever the room is open; student volunteers will be available to help locate specific posters, and to assist with mounting posters.

WORKSHOPS

There are no fees required for attending any of the workshops, so please feel free to participate if your schedule permits.

"The Scoop on Dirt": Soil Organic Matter: Patterns and Processes in Estuarine Wetlands

Sunday, September 14, 2003 1:00 - 5:00 p.m.
Washington State Convention and Trade Center – Room #211

Soil organic matter (SOM) is essential to heterotrophic food webs, biogeochemical (C, N, P, S) cycles and stability of coastal wetlands in the face of rising sea level. The workshop will compare SOM data across a range of climates, geographic regions and wetland types to identify patterns of pools, accumulation and 'quality' of soil organic matter in estuarine wetlands. Relationships between autotrophic and heterotrophic activity and quantity & quality of SOM will also be explored in the workshop. Interested participants are encouraged to bring data illustrating these relationships.

Workshop convener: Chris Craft (ccraft@indiana.edu).

The Integrated Ocean Observing System—What's in It for Estuarine Monitoring and Management?

Tuesday, September 16, 2003 12:15 - 2:15 p.m.
Washington State Convention and Trade Center – Room #201

The Integrated Ocean Observing System - What's in it for estuarine monitoring and management? - You probably have heard about the Integrated Ocean Observing System but maybe you don't know how it relates to your estuarine science and management activities. In this workshop, we will update participants on the status of the developing Integrated Ocean Observing System, examine the relationship between coastal observations and estuarine monitoring, and explore case studies of applications of such information to estuarine and coastal science and management. Participants will be encouraged to discuss ways to strengthen applications of coastal observing systems to estuarine science and management. Workshop convener: Geno Olmi (geno.olmi@noaa.gov).

"Film at Eleven": Getting Accurate, In-Depth Coverage of Your Research and Restoration Efforts

Tuesday, September 16, 2003 12:00 - 2:00 p.m.
Washington State Convention and Trade Center – Room #4C – 2

What counts as a news-worthy story? Which tricks will ensure that your story's main points will appear in print or be aired on radio and TV? How can you best capitalize on the growing audience for Internet news sources? A panel of public information officers, science writers and news desk editors will tackle these and other important issues as they answer your questions and discuss the nuts and bolts of successful media coverage of estuarine research. Workshop convener: Melissa O'Neill (mboneill@u.washington.edu).

SET Workshop II: Statistical Analyses of Sediment Dynamics Using the Surface Elevation Table (SET)

Friday, September 19, 2003 Morning (Exact time TBD)
Washington State Convention and Trade Center – Room #307/308

This workshop will focus on latest developments in SET technology, measurement error, and the statistical framework for analyzing SET data, and will answer questions that include: How do I design a study of wetland sediment elevation dynamics with the Surface Elevation Table (SET)? How are the elevation data analyzed in a statistically coherent framework? Workshop conveners: Philippe Hensel (philippe_hensel@usgs.gov) and Donald Cahoon (don_cahoon@usgs.gov).

Use of ADCPs for Estuary Studies

Friday, September 19, 2003 8:00 a.m. - 12:00 p.m.

(Q&A session from 1:00 – 3:00 p.m.)

Washington State Convention and Trade Center – Room TBD

This workshop will focus on significant advancements in ADCP technology made by RD Instruments in recent years, for the measurement of river discharge, circulation, mixing, turbulence, and the relative distribution of suspended sediments within shallow water estuarine and river locations. Topics will include overview of ADCP applications and information that can be obtained from ADCPs in shallow water locations; summary of ADCP hardware and new shallow water capabilities; description of sampling strategies for estuary conditions; summary of the influence of environmental parameters on data quality; details of post processing software with special attention paid to data collected in shallow low velocity estuary conditions; and overview of data quality assurance parameters. . If you plan to attend this workshop, please sign up through the ERF conference management office by contacting Susan Jones at susanj@sgmeet.com or contact RD Instruments directly at sales@rdinstruments.com. Workshop convener: Paul Devine (Pdevine@rdinstruments.com)

SYMPOSIA DESCRIPTIONS

SYM-01: Historic and Current Use and Management of Estuarine Environments by Indigenous and Pre-Industrial People in Pacific Rim Nations

Conveners: W. Greg Hood (ghood@skagitcoop.org) and Sandy Wyllie-Echeverria (zmseed@u.washington.edu)

A broad range of participants from Pacific Rim Coastal Nations will be assembled to address: characterization of estuarine habitats prior to Euro-American colonization in North and South America and industrialization in Asian nations; review of anthropological and archeological evidence of pre-colonial and pre-industrial uses of estuarine plants, animals, and environments to provide insights into ethno-ecology; historical review of indigenous vs. Euro-American/industrial occupation and conflicting management of the estuarine/ coastal landscape; and integrating traditional ecological knowledge (TEK) and ethno-ecology into modern environmental management and restoration ecology.

SYM-02: Connectivity in the Life Cycle of Fishes in Temperate and Tropical Estuaries

Conveners: Dave Secor (secor@cbl.umces.edu) and Jay Rooker (rookerj@tamu.tamu.edu)

Historically, estuarine fisheries biology has focused on the theme of estuarine dependency with emphasis on microhabitat use, even though few fishes that we associate with estuaries are obligatory users. (Anadromous fishes are a notable exception.) To address the issue of causes and consequences of estuarine habitat use, we explore “connectivity” in the life cycles of fishes that use temperate and tropical estuaries.

SYM-03: Understanding the Biotic Integrity of Estuarine Habitats

Conveners: Dail W. Brown (Dail.Brown@noaa.gov), Linda A. Deegan (ldeegan@mbl.edu), Michael Elliott (Mike.Elliott@hull.ac.uk), and Suzanne G. Ayvazian (sayvazian@fish.wa.gov.au)

Assessing biotic integrity is essential for sustainable management. Presentations will evaluate the attributes, including habitat diversity, species composition and productivity, of natural and altered systems as indicators of habitat integrity.

SYM-04: Global Climate Change and Climate Variability, Impacts on Estuaries

Convener: Jan Newton (newton@ocean.washington.edu)

The theme for the symposium is impacts of climate variation and climate change on estuaries. Introductory talks will address atmospheric drivers, atmosphere-ocean linkages, global climate change, and end with a summary of estuarine impacts. The focus will then shift to sea-level rise, changes in freshwater inflow, and changes in biogeographical distributions.

SYM-05: Dynamics of Estuarine Particles

Conveners: Larry Sanford (lsanford@hpl.umces.edu) and Carl Friedrichs ([cfrid@vims.edu](mailto:cfried@vims.edu))

This session will highlight significant recent advances in our ability to observe and model estuarine particle suspension, aggregation, transport and deposition. It will focus on process-based investigations of estuarine particle dynamics, in relation to estuarine hydrodynamics and biology.

SYM-06: Sustainability Science and Estuarine Habitat Restoration: An International Perspective on Integrating Ecology and the Social Sciences

Conveners: Michael P. Weinstein (MWeinstein@njmsc.org), Denise J. Reed (dreed@uno.edu) and R. Eugene Turner (euturne@lsu.edu)

“Good” restoration is not only rooted in ecological fidelity, but is also underpinned by societal goals that embrace social, historical, political, aesthetic and moral contexts. Manifested in “sustainability science,” this international session attempts to integrate the natural and social sciences into a more comprehensive approach to restoration ecology, science and practice.

SPECIAL SESSION DESCRIPTIONS

SPS-01: Northwest and Northeast Pacific Estuaries: Differences and Commonalities in Ecology and Management

Conveners: Colin D. Levings (levingsc@pac.dfo-mpo.gc.ca) and David Fraser (David.Fraser@ec.gc.ca)

The theme of this session will be to expose and explore the common ecological features of estuaries of the temperate and sub-arctic north Pacific. The geographic range will be from about 30 N to the Arctic Circle. Concepts within the session will include the merging of fauna and flora owing to globalization; ecological functions along the latitudinal gradient in the east and west Pacific; mudflats; and salmonid use of estuaries in Asia and North America. The management themes will include: discussions of management plan development, restoration initiatives, successes and failures in contrasting estuaries such as the Fraser in Canada, Columbia or San Joaquin in the U.S., Han in Korea, Tumen in China, and Yodo (Osaka) in Japan.

SPS-02: Hypersalinity in Estuaries and Coastal Systems

Conveners: Clifford Hearn (c.hearn@adfa.edu.au) and Arnoldo Valle Levinson (arnoldo@ccpo.odu.edu)

This session will bring together research on different aspects of hypersalinity in estuaries, wetlands, embayments and other coastal systems, with particular emphasis on hypersalinity as an environmental stressor. Presentations may include: observations and modeling of hypersaline systems; the importance of hypersalinity to environmental planning and management; studies of seasonal, inter-annual, and multi-decadal variations of hypersalinity and the roles of

such variability in estuarine and coastal ecology; effects of hypersalinity on circulation, mixing, flushing, water quality, and biogeochemical processes; the response of salinity, and hypersalinity, to such human influences; and effects arising from long term climatic and sea level changes.

SPS-03: Making the Connection Between Human Disturbance and Invasion Success

Conveners: Caren Braby (cbraby@stanford.edu) and Kimberly Heiman (heiman@stanford.edu)

The physical characteristics of our estuaries are altered, whether you consider hydrology, temperature, abundance or type of habitat, chemistry, or productivity. Does this altered state of estuaries facilitate invasion success and/or increase the impact of invasive species?

SPS-04: Ecological and Societal Values of Estuarine Habitats

Convenor: Steven P. Ferraro (ferraro.steven@epa.gov)

Natural and anthropogenic stressors (nutrients, sediments, pollution, altered hydrologic regime, physical disturbance, etc.) can alter the areal size, shape, distribution, and function of estuarine habitats affecting the living resources and ecosystem services estuaries provide. Quantitative information on the ecological and societal (including economic) values of estuarine habitats is needed to help prioritize estuarine habitats for protection and restoration and to assess and help predict the consequences of habitat alteration. This session will present current basic and applied research on methods, models, and measures to better understand and predict how habitat alterations affect the ecological and societal value of estuaries.

SPS-05: Nutrient Cycling: Benthic-Pelagic Interactions

Convenor: Anne Sigleo (Sigleo.Anne@epamail.epa.gov)

A considerable portion of the nutrients transported from upland watersheds into estuaries is recycled within the water column and estuarine sediments. This session will be concerned with the nutrient cycling processes including nutrient fluxes into or out of the benthos, sediment and water column nutrient profiles, isotopic indicators of plankton and heterotrophic biogeochemical processes and nitrification/denitrification results.

SPS-06: Advances and Applications in Estuarine Circulation Processes: A Tribute to Donald W. Pritchard

Conveners: Glenn Cannon (cannon@ocean.washington.edu) and William Boicourt (boicourt@hpl.umces.edu)

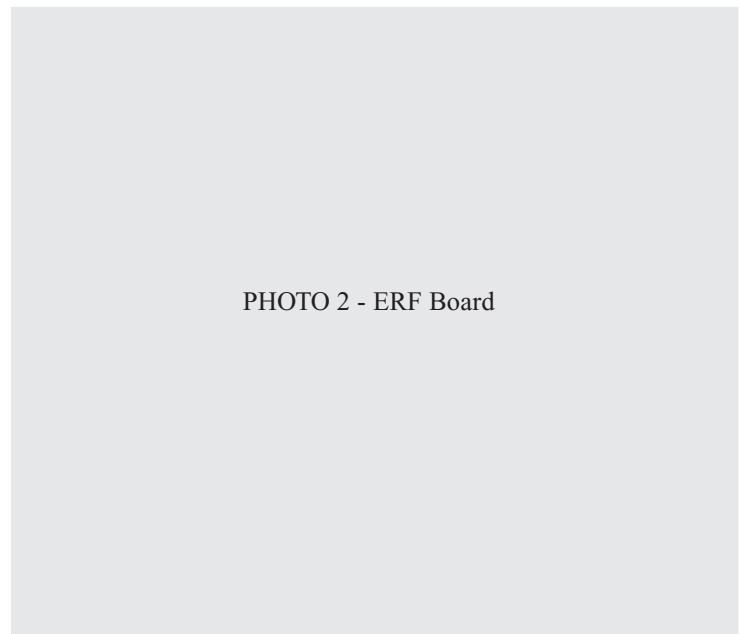
This session highlights the first Donald W. Pritchard Award for an outstanding physical oceanography paper published in *Estuaries*. Papers will cover a broad range of topics including observations, modeling, and applications for society's use of estuaries.

SPS-07: Research to Management: Adapting Research Tools for the Management of Harmful Algal Blooms

Convener: Vera Trainer (vera.l.trainer@noaa.gov)

Monitoring combined with early indicators of harmful algal blooms (HAB) events are the most effective strategies to mitigate the impact of environmental biotoxins. The scientific challenge is to develop accurate and sensitive tools that are inexpensive but employ state-of-the-art technologies to directly meet the most pressing management needs. These include rapid field assays for shellfish, improved diagnostic techniques for in situ detection of toxic cells, remote sensing technology to help target sampling efforts, and others. This session will provide the opportunity for coastal managers and researchers to critically address the most effective means to integrate leading-edge science into existing state monitoring programs.

PHOTO 2 - ERF Board



The ERF governing board in May 2003. From the left, front row, Lawrence Rozas, Sylvie St-Jean, Randy Chambers, Brett Dumbauld, Janet Barnes. Second row: Peter Doering, Randy Brown, Holly Greening, Mark Peterson, Anne Giblin and Dennis Allen. Back row: Walter Boynton, Linda Schaffner, Steve Fuller, Alan Lewitus and Marshall Pregnall.

SPS-08: Exposing Your Code: Open Source Modeling in Estuarine and Coastal Environments for Science and Management Applications

Conveners: Raleigh R. Hood (raleigh@hpl.umces.edu) and Kevin G. Sellner (sellner@serc.si.edu)

This session will focus on open source/community modeling in watershed, estuarine and coastal environments. We will seek to promote the open development and free dissemination of models for a wide range of applications; review the state-of-the-art in open-source/community modeling efforts; and discuss and debate the feasibility of developing and using these open models for management purposes.

SPS-09: Elevation Change in Coastal Wetlands: Surface and Subsurface Processes

Conveners: Donald R. Cahoon (don_cahoon@usgs.gov) and Karen L. McKee (karen_mckee@usgs.gov)

This session will feature work that explicitly examines surface and/or subsurface sediment processes and their relative contributions to wetland sediment elevation change. An understanding of the relative contributions of these processes is necessary to accurately model and predict future changes in elevation and the ability of coastal wetlands to accommodate sea-level rise. Knowledge of the factors actually controlling elevation change in a particular wetland is also critical to understanding ecosystem functioning, and to making sound decisions regarding management and conservation.

PHOTO 10- Crabs

SPS-10: Estuarine Hydrodynamics Lessons for Everyone

Convener: Lisa V. Lucas (lucas@usgs.gov)

This session will focus on new science in the field of estuarine hydrodynamics, which everyone working in estuaries (biologists, chemists, and hydrodynamicists alike) should know about. Presentations should be equation-light and user-friendly,

Close up from the Pike Street market, one of Seattle's principal tourist and resident attractions.
(Photo courtesy Seattle Convention and Visitor's Bureau and Tim Thompson)

targeting a general audience of estuarine scientists and including practical lessons on estuarine physics that will impact how scientists view or model their estuary, design monitoring programs, and interpret their data.

SPS-11: Ecological Importance of Detrital and Algal Resources to Estuarine Food Webs: A Cross-System Comparison

Convener: Bill Sobczak (wsobczak@holycross.edu) and Peter Raymond (peter.raymond@yale.edu)

We now know that the world's rivers and estuaries are predominantly net heterotrophic ecosystems, thus external detrital inputs support the majority of organic matter metabolism. Are food webs within these net heterotrophic ecosystems supported by allochthonous, detrital inputs?

SPS-12: Coastal Lagoons

Convener: Alice Newton (aNewton@ualg.pt)

Coastal lagoons represent a particular type of estuarine environment that offers interesting parallels and contrasts to the "normal" estuarine situation. This session will focus on the productivity of coastal lagoons, environmental threats, river basin -coastal zone management, modeling coastal lagoon processes, and case histories

SPS-13: Estuarine Turbulence: Observations, Mechanisms and Effects

Conveners: Stephen Monismith (monismith@cive.stanford.edu), W. Rocky Geyer (rocky@gusty.whoi.edu), and Parker MacCready (parker@ocean.washington.edu)

Turbulent mixing controls estuarine salinity structure and flushing, however only in the last 10 years have direct turbulence and 3D dispersion measurements been made. This session will focus on all aspects of turbulence and estuarine dispersion, including observations, modeling, theory, and work on the system-scale effects of turbulence.

SPS-14: Plankton, Physics and Production: Linking Biology and Physics in Meso-scale Features

Conveners: Elizabeth North (enorth@hpl.umces.edu), Edward Houde (houde@cbl.umces.edu), Raleigh Hood (raleigh@hpl.umces.edu) and Michael Roman (roman@hpl.umces.edu)

This session will investigate processes and dynamics of meso-scale features in estuaries including: estuarine turbidity maxima (ETMs), plume fronts, hydraulic control points, and residual eddies. The session will explore the relationship between production and meso-scale features, reveal predictable variations in production and recruitment due to environmental change, and offer insights on linking small-scale biological-physical interactions to meso-scale and population-level processes.

SPS-15: Assessing the Ecological Functions of Vegetated Shallow Water Habitats in Estuarine-River Ecosystems

Conveners: Stuart Findlay (FindlayS@ecostudies.org) and Chuck Nieder (wcnieder@gw.dec.state.ny.us)

This session will cover a variety of topics (nutrients to fish to sediment dynamics) from a number of geographical regions. From both a science and a management perspective, knowledge of controls on these multiple functions is as important as documentation of spatial extent or stability.

SPS-16: Impacts of Shoreline Modifications on the Estuarine Nearshore

Conveners: Melora Haas (melora@u.washington.edu) and Greg Williams (Gregory.Williams@pnl.gov)

This session is devoted to research investigating the impacts of various shoreline modifications (e.g., overwater structures, shoreline hardening) to nearshore estuarine processes, habitats, and functions on a variety of spatial scales. The

presentations will compare results from a variety of systems and regions.

SPS-17: New Conceptual Approaches for the Assessment and Evaluation of Seagrass Ecosystems Under Stress

Conveners: Sandy Wyllie-Echeverria (zmseed@u.washington.edu) and Kurt L. Fresh (kurt.fresh@noaa.gov)

The purpose of this session is to explore conceptual approaches to studying and evaluating anthropogenic and natural disturbances in seagrass ecosystems that have not been traditionally adopted by seagrass scientists. This includes using population genetics as an evaluation tool for systems under stress, separating different disturbance types and how landscape structure affects functions of seagrass.

SPS-18: The Role of Landscape Perspectives in Estuarine Ecology: Do Spatial Relationships and Scale Really Matter?

Conveners: Heather Haas (hhaas@mbl.edu) and Enrique Reyes (ereyes@uno.edu)

Estuarine environmental gradients interact with ecological processes resulting in patchy distributions of habitats and organisms. So how representative of the estuary are the results from fine-scale experiments or simulations? How can inferences from fine-scale studies be “scaled up” and used as input into regional management decisions?

SPS-19: Biocomplexity in Mangrove Forests: An Indo-West Pacific vs. Atlantic-East Pacific Comparison

Conveners: Ilka C. Feller (felleri@si.edu) and Norm Duke (n.duke@mailbox.uq.edu.au)

Comparison of biological complexity in the two major biogeographic provinces of mangrove distribution, i.e., the Indo-West Pacific Region (IWP) and the Atlantic-East Pacific (AEP) Global Regions, to examine the impact and scale of nutrient over-enrichment, sedimentation, and chemical pollution in tropical coastal ecosystems.

SPS-20: Response of Estuaries and Coastal Landscapes to Climate-Related Phenomena

Conveners: Douglas F. Williams (doug.williams@schc.sc.edu) and Norman J. Dodson (dodson@mailbox.sc.edu)

Estuaries and coastal landscapes on both the Pacific Rim and the Atlantic basin are sensitive to climate-related phenomena such as hurricanes and tropical depressions, droughts and floods, to name a few. Understanding the impact of large-scale forcing from ENSO (El Nino-Southern Oscillation) and NAO (North Atlantic Oscillation) events on the estuary-shelf processes needs to be better understood so that predictive models can be developed. This session will bring together diverse experts on coastal-estuarine processes in order to make state-of-the-art reports on these broad but inter-related topics.

SPS-21: Long-term and Large-scale Patterns in Coastal and Freshwater Aquatic Ecosystems (Joint ERF-LTER session)

Conveners: Dan Childers (childers@fiu.edu), Chuck Hopkinson (chopkins@MBL.edu), Steve Penning (spennings@uh.edu), Dan Reed (reed@lifesci.ucsb.edu) and Jay Zieman (jcz@virginia.edu)

Anthropogenic changes in freshwater inputs to coastal systems have affected estuarine productivity, ecological dynamics, or economic output of their systems. This session will examine ecosystem processes through comparisons of large-scale estuarine systems over varying scales of time and space. This session will couple freshwater inputs to the coast with presentations that will include [upstream] freshwater ecosystems, estuaries, and the nearshore coastal zone. By design, the session will also provide an opportunity for LTER and ERF scientists to find commonality among their investigations.

SPS-22: Estuarine Ecosystem Properties Through a Network Approach

Conveners:
James G. Wilson (jwilson@tcd.ie) and Robert R. Christian (christianr@mail.ecu.edu)

This session will be a joint effort by ERF and ECSA scientists to address issues in ecosystem ecology in the context of estuarine systems. Concepts such as

maturity, stability and succession are largely grounded in terrestrial or blue water ecology and their respective ecosystems. Estuarine ecosystems provide a complex interaction of physical forcings and biological feedbacks that often occur at comparable time scales. This session will address these topics in the context of network ecology, including inferences about the states of maturity and stability of estuarine systems

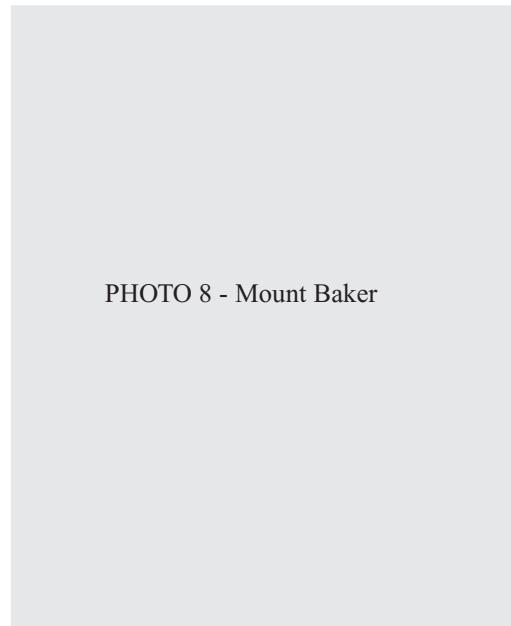


PHOTO 8 - Mount Baker

Mount Baker in spring. (Photo courtesy Seattle Convention and Visitor's Bureau and Tim Thompson)

SPS-23: Estuarine Sedimentary Processes and Products

Conveners: Timothy M. Dellapenna (dellapet@tamug.tamu.edu) and Steven A. Kuehl (kuehl@vims.edu)

Estuaries are dynamic and complex marine sedimentary systems as a result of strong four-dimensional (space and time) gradients in physical and biological processes. This

session will broadly focus on the linkage between sedimentary process and product with special emphasis on mechanisms of sediment deposition, erosion, sediment mixing and record of processes in modern strata. We also encourage contributions that explore linkages between sedimentary processes, benthic habitats, and seabed chemical fluxes in estuarine systems.

SPS-24: Nitrogen Inputs to the Coastal Zone at Regional Scales

Conveners: Robert W. Howarth (rhw2@cornell.edu) and Elizabeth W. Boyer (ewboyer@syr.edu)

Globally, the cycling of nitrogen is changing more rapidly than that of any other element, with significant environmental consequences in the coastal zone. Presentations will focus on nitrogen transport and transformations at the scale of large watersheds or regions. Specific topics may include: nitrogen budgets; nitrogen pollution in surface and ground waters; atmospheric deposition of nitrogenous compounds and its effects; processes of nitrogen accumulation and loss, water quality standards; and policy developments.

SPS-25: River-Estuary Interaction

Conveners: Gerardo M. E. Perillo (perillo@criba.edu.ar), Björn Kjerfve (bjorn@sc.edu), James Syvistki (james.syvitski@colorado.edu), and Eric Wolanski (e.wolanski@aims.gov.au)

This session will address processes at river-estuary boundary, with emphasis on integrated research experiments and models, and will propose new methodologies and processes.

SPS-26: Insights into Estuarine Food Webs and Organic Matter Cycling from Isotopic Tracer Enrichment Studies

Conveners: Lisa A. Levin (llevin@ucsd.edu) and Carolyn Currin (Carolyn.Curri@noaa.gov)

Experimental isotopic enrichments, in which tracer-level ^{15}N , ^{13}C , or ^{14}C are used to label organic matter, have offered much insight into the flow of energy, carbon and nitrogen in estuaries and other systems. In this session, we will highlight the insights achieved through application of various isotopic tracers in different ecosystems, and discuss the complementary use of tracer-level and natural abundance isotopic data.

PHOTO 9- Fresh Fish

Close up from the Pike Street market, one of Seattle's principal tourist and resident attractions. (Photo courtesy Seattle Convention and Visitor's Bureau and Tim Thompson)

CONTRIBUTED SESSIONS

CS-01: Integrated Coastal Management, Science and Policy

Conveners: J.L. Eimers and Guy Fontenelle

CS-02: Water Quality and Contaminants

Convener: Kevin Summers

CS-03: Non-Indigenous Species Impacts

Convener: Sally Hacker

CS-04: New Technologies and Observatories for Monitoring and Studying Coastal Systems

Convener: Antonio M. Baptista

CS-05: Ecology and Management of Submerged and Intertidal Aquatic Vegetation

Convener: Hitoshi Izumi

CS-06: Effects of Disturbance on Food Webs

Convener: Jim Power

CS-07: Protected Areas and Reserves

Convener: Tom Shirley

CS-08: Ecosystem Restoration: Comparisons of Approaches and Assessments

Convener: Bill Taylor

CS-09: Role of Estuaries as Nurseries Sustaining Fisheries

Convener: Anne Shafer

CS-10: Land Use Linkages to Estuarine Conditions

Conveners: Chet Rakocinski and Bruce Williamson

CS-11: Private and Public Partnerships in Estuarine Restoration

Conveners: Gordon Thayer and Jennifer Macal

CS-12: Innovative Approaches and Techniques for Restoration

Convener: Aimee Kinney

CS-13: Distinguishing Natural and Anthropogenic Signal in Estuarine Ecosystems

Convener: David Tomasko

CS-14: Estuarine-Coastal Ocean Exchange

Convener: Cheryl Brown

CS-15: Integrating Climate Change into Estuarine Management

Conveners: Henry Walker and Candace Oviatt

NOAA National Centers for Coastal Ocean Science

Science for Coastal Communities



Center for Sponsored Coastal Ocean Research-Coastal Ocean Program

NOAA's Center for Sponsored Coastal Ocean Research-Coastal Ocean Program (CSCOR-COP) develops and improves predictive capabilities for managing the Nation's use of its coastal resources. CSCOR-COP sponsors competitive research to support long-term, regional research and interagency initiatives in areas such as coastal eutrophication, harmful algal blooms, cumulative coastal impacts, coral reef health, and fisheries ecosystems. It also supports efforts to translate the results of its investments into accessible and useful information for coastal managers, planners, lawmakers, and the public to help balance the needs of economic growth with those of conserving our Nation's Great Lakes, estuarine, and coastal ocean resources.

CSCOR/COP is a proud sponsor of the ERF 2003 Conference.

<http://www.cop.noaa.gov>

SPECIAL EVENTS, SMALL MEETINGS & SOCIAL FUNCTION HIGHLIGHTS

See page ?? for the complete schedule.

President's Welcome Reception

Sunday, September 14 6:00 - 8:30 p.m.,
Room 4D ("The Bridge")

Come meet, eat and drink with the Estuarine Research Federation presidents and other ERF governing board members. Celebrate the opening of the 17th biennial conference of the Estuarine Research Federation.

You will be welcomed with traditional dances and chants by *Northern Star Dancers* a local Native American dance company. Artist Marvin Oliver, internationally acclaimed contemporary sculptor, one of the Pacific Northwest's foremost printmakers and creator of our ERF 2003 logo, is also invited to join us!

Affiliate Society Meetings

Plan to attend your affiliate society meeting to learn what is happening in your region! Bring a bag lunch to the lunch-time meetings.

AERS: Monday, September 15 12:00 – 1:00 p.m.
Room 4C-4

CAERS: Wednesday, September 17 12:00 – 1:00 p.m.
Room 4C-2

GERS: Wednesday, September 17 12:00 – 1:00 p.m.
Room 4C-3

NEERS: Wednesday, September 17 12:00 – 1:00 p.m.
Room 4C-4

SEERS: Wednesday, September 17 7:00-8:00 p.m.
Room 4C-4

PERS: Thursday, September 18 12:00 – 1:00 p.m.
Room 4C-4

GSLERS: TBD

NOAA Northwest Fisheries Science Center Reception

Monday, September 15 11:45 a.m. - 1:15 p.m.
Room 310

NOAA's Northwest Fisheries Science Center is hosting a small reception to visit with collaborators, colleagues, and friends and to provide a brief overview of its research. Due to limited seating, early registration is encouraged. Please R.S.V.P. to Ali Senauer at Ali.Senauer@noaa.gov.

ERF Student Career Event

Monday, September 15 7:00 - 9:00 p.m.
Room 6E

Students, plan to attend the "Career Planning and Meet the Pros" social event. This is your chance to network with professional scientists, recent graduates as well as other students, both graduate and undergraduate. As usual, FREE PIZZA for students!

Women's Aquatic Network (WAN) Luncheon

Tuesday, September 16 12:00 – 1:30 p.m.
Room 615/616/617

This popular ticketed luncheon program will again feature the careers and life choices of two successful women in the aquatic sciences. This year we are pleased to have as our speakers Dr. Usha Varanasi, Director of the Northwest Fisheries Science Center (NOAA, NMFS) and Dr. Gisele Muller-Parker, Professor of Biology and Assistant director of the Shannon Point Marine Center of Western Washington University.

Native American Dinner & Experience at Tillicum Village

Tuesday, September 16 6:00 to 10:30 p.m.
Off-site

Our ticketed off-site event will feature Pacific Northwest native culture including a boat trip, salmon dinner, Native crafts and dancing at Tillicum Village on Blake Island in the middle of Puget Sound. On the web, go to <http://www.tillicumvillage.com/>

Alliance for Coastal Technologies (ACT) Reception

Wednesday, September 17 12:00 – 1:00 p.m.
Room 310

ACT invites its members and other interested parties to attend this reception, which will provide a forum for discussion of technological barriers facing coastal zone monitoring, further networking opportunities and an ACT programmatic overview.

ERF Business Meeting

Wednesday, September 17 5:30 – 6:30 p.m.
Room 4C-2

- Dennis M. Allen, Federation President, presiding
- Welcome
- Retiring Officers' recognition and service awards
- Introduction of the Schaffner administration

- Changing of the Guard – Linda C. Schaffner, President 2003-2005
- Treasurer's report – Walter R. Boynton
- Estuaries journal report – Scott W. Nixon and Carlos Duarte, Co-editors-in-chief and Stephen T. Threlkeld, Managing Editor
- Membership Report – Joy A. Bartholomew, Executive Director
- Members' comments and questions
- Drawing for the complimentary ERF 2005 conference registration

ANEP and NERRA Social

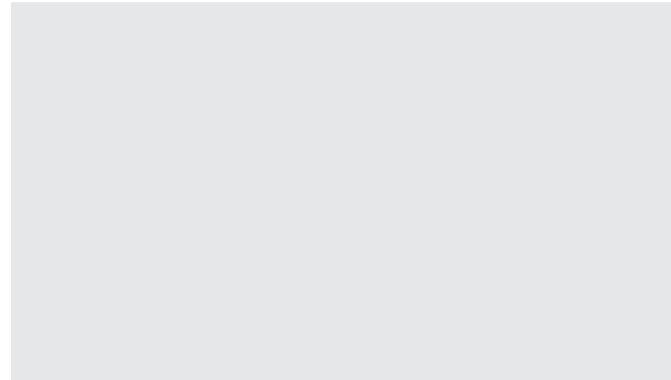
Wednesday, September 17 7:00 – 8:30 p.m.
Room 4C-1

Representatives of the Association of National Estuary Programs (ANEP) and the National Estuarine Research Reserve Association (NERRA): you are invited to attend this gathering to meet each other and to further cultivate networks between these two vital estuarine programs. This event, focusing on invasive species, will include poster presentations, a few speakers, and a cash bar and hors d'oeuvres.

ERF Grand Finale and Student Awards Reception

Thursday, September 18 :00 – 8:00 p.m.

Congratulate the award-winning students; celebrate ERF with some fine food and music; mingle with the LTER scientists!



Mt. Baker, 10,778' is the third highest peak in Washington is seen here in the fall (minimum snow) during an easy day hike from Seattle. It is located near Mt. Shuksan shown in a previous Newsletter. Climbing Mt. Baker requires crossing glaciers with hidden crevasses. Vancouver named the mountain for his cartographer who first sighted it in 1792 and it was included on his first chart of the Puget Sound region. (Photo courtesy of Glenn Cannon)

EPS-ORD AD PROBLEM

MONDAY MORNING HIGHLIGHTS

MONDAY MORNING PLENARY SESSION

9:00 a.m. –	Washington Seattle Convention and Trade Center, Room 6 E
12:00 p.m.	
	Dennis M. Allen, ERF President 2001-2003, Presiding
	Welcome and introductions
	President's address
	Awards – Nancy Rabalais, ERF President 1997-99, ERF Awards Committee Chair
	Distinguished Service Award - Walter R. Boynton
	Pritchard Award - W. Rockwell Geyer, Jonathan D. Woodruff, and Peter A. Traykovski
	William A. Niering Award - John W. Day, Jr.
	Cronin Award - Lisa V. Lucas
	Odum Award - Scott W. Nixon
	Break (10:15 – 10:45 a.m.)
	Keynote Address Scott Nixon
	Of Odums and Estuaries - Seeing the Coast Through a Macroscope
	Address Billy Frank, Jr., Chairman, Northwest Indian Fisheries Commission (Invited)
	Native American Perspective on Estuaries and Coasts
	Announcements Andrea Copping, ERF 2003 Conference Chair
	Presentation Timothy R. E. Keeney, Deputy Assistant Secretary for Oceans and Atmosphere, U. S. Department of Commerce
	Coastal America Partnership Award to the Northwest Straits Commission for Removal of Derelict Fishing Gear from Northern Puget Sound
12:00 p.m.	Adjourn
1:15 p.m.	Scientific Sessions Begin

ESTUARINE RESEARCH FEDERATION 2003 SCIENTIFIC AWARD RECIPIENTS

Distinguished Service Award

Dr. Walter R. Boynton
University of Maryland
Chesapeake Biological Laboratory
P. O. Box 38
Solomons, MD 20688 USA

This award recognizes and honors an individual for outstanding service to the Federation. Walter R. Boynton has been the Federation's Treasurer since 1997. The Treasurer is responsible for oversight of all financial business. Dr. Boynton's dedication to improving the Federation's fiscal health and handling of all related business has been conducted with diligence, patience and humor.

An outstanding estuarine ecologist Dr. Boynton has been on the staff of the Chesapeake Biological Lab since 1969, shortly after receiving his doctorate with Dr. H. T. Odum at the University of Florida. Dr. Boynton has made seminal contributions to many aspects of estuarine ecology, especially to understanding the roles of nutrient cycling and eutrophication. He plays a pivotal role in helping research science support sound resource management in the Chesapeake Bay region.

Pritchard Award

Dr. W. Rockwell Geyer, Senior Scientist and Department Chair
Jonathan D. Woodruff, Research Associate II
Peter A. Traykovski, Assistant Scientist
Applied Ocean Physics and Engineering
Woods Hole Oceanographic Institution
Woods Hole, MA 02543 USA

The Donald W. Pritchard Award recognizes the author or authors of a paper judged to make the most meritorious contribution to the field of estuarine physics that is published in the Federation's journal, *Estuaries*, in the 24-month period ending December of the year preceding the award.

The Pritchard Award was created in 2001 and is being presented for the first time at the Seattle conference. The recipient coauthors listed are colleagues at the Woods Hole Oceanographic Institution. Their paper, entitled "Sediment Transport and Trapping in the Hudson River Estuary," appeared in the October 2001 edition of *Estuaries*.

William A. Niering Award for Education

Dr. John W. Day, Jr., Distinguished Professor
Dept. of Oceanography and Coastal Sciences and Coastal
Ecology Institute
School of the Coast and Environment

Louisiana State University
Baton Rouge, LA 70803 USA

The Federation recognizes John W. Day, Jr. for his prolific mentoring of graduate students, over 50 graduates to date, many of whom have also become prominent estuarine scientists. As an indication of the effectiveness of Dr. Day as a graduate advisor stimulating active research, literally dozens of presentations at the 2001 ERF meeting in St. Petersburg, Florida were given and coauthored by him and his former students. Additionally, the book *Estuarine Ecology* with Dr. Day as first editor has become the authoritative text for graduate and advanced undergraduate courses on estuaries.

The Cronin Award for Early in Career Achievement

Dr. Lisa V. Lucas, Research Engineer
US Geological Survey
345 Middlefield Rd, MS #496
Menlo Park CA 94025 USA

Lisa V. Lucas receives the 2003 Cronin Award for her exceptional talents as a scientist committed to solving tough environmental problems of societal concern. She unravels the complex patterns inherent in aquatic ecosystems emphasizing dynamics of phytoplankton and interrelated dynamics of water quality, ecosystem processes, and consumer populations. She applies her insights into combinations of physical and biological processes to subsystems of the San Francisco Bay estuary. Dr. Lucas graduated from Stanford University in 1997 with a Ph.D. in Civil and Environmental Engineering, Environmental Fluid Mechanics Program.

The Odum Award for Lifetime Achievement

Dr. Scott W. Nixon, Professor
Graduate School of Oceanography
University of Rhode Island
Narragansett, RI 02882 USA

Scott W. Nixon is the 2003 recipient of the Estuarine Research Federation's Odum Lifetime Achievement Award for his outstanding contributions to estuarine and coastal science and education over the past 35 years. Scott started work at GSO in 1970 after completing his dissertation under the guidance of Professor H.T. Odum at the University of North Carolina - Chapel Hill.

In addition to serving as an advisor to more than 25 Ph.D. and M.S. students, and serving as Director of the RI Sea Grant Program, Editor-in-Chief of *Estuaries*, and valued member of several National Academy of Sciences boards and committees, Scott has remained a productive scientist. At least 10 of his papers have been cited over 100 times; several are considered classics. Scott is widely recognized for his innovative and creative ways of examining data and

natural systems to develop insightful syntheses about ecosystem metabolism.

As a master of logic and clarity, Scott continues to inspire students and energize seasoned researchers. We certainly look forward to the contributions that he will make to advancement of our science and management of our coastal systems for years to come.

NORTHWEST STRAITS MARINE CONSERVATION INITIATIVE : DERELICT GEAR PROJECT

The *Northwest Straits Marine Conservation Initiative* was authorized by Congress to support a citizen-driven, "bottom-up" approach to protecting and restoring the threatened marine resources of northern Puget Sound and the Straits of Juan de Fuca. The problems of the NW Straits cross geographical and jurisdictional boundaries and range from species in distress or facing extinction, to extensive loss of nearshore and marine habitats. Marine populations in serious decline include salmon, shellfish, bottomfish, and marine mammals. Traditional approaches to addressing these problems have been met with resistance because of their top-down nature. Begun in 1999, this innovative, action-oriented, citizen-based approach is showing positive results. Seven counties that border the Northwest Straits have formed *Marine Resources Committees* (MRCs) to set priorities, sponsor restoration projects, and make recommendations to local, state, and federal governments on methods needed for long-term protection.

Overseen by the Northwest Straits Commission, over 100 volunteers representing scientific, economic, recreational, and conservation communities, as well as local and tribal government, are involved in protecting and restoring the shoreline, habitats, and marine populations of the region.

With initial funding from NOAA's Community Restoration Program, the Northwest Straits Commission has developed and tested protocols for the removal of derelict fishing gear from the cold, deep waters of the Northwest Straits. Derelict fishing gear includes nets, lines, crab and shrimp traps or other equipment that is abandoned or lost from fishing vessels and left unattended in the marine environment. Since modern nets and fishing line are made of monofilament plastic, much of the derelict fishing gear does not decompose in the water for many years, even decades. During the first year of the project the NWS Commission engaged state agencies, tribes, fishers and divers in locating and identifying derelict fishing gear. The project to date has removed over a mile of gillnet, and approximately 11 tons of derelict purse seine net and crab pots, that might have gone on killing and maiming fish, birds and marine mammals.

SCIENTIFIC PROGRAM

MONDAY, SEPTEMBER 15, 2003

SPS-01: Northwest and Northeast Pacific Estuaries: Differences and Commonalities in Ecology and Management

Chair(s): Colin D. Levings, David Fraser

Location: 2B

1:15 PM	Yamamoto, M. ; Hiratsuka, J.; Ishitobi, Y.: HISTORICAL ROLE OF SEAGRASS HARVESTING FOR FERTILIZER IN NUTRIENT REMOVAL FROM AN ESTUARINE LAGOON, LAKE NAKAUMI, JAPAN
1:30 PM	Levings, C. D. ; Je, J. G.: COMPARISON OF VEGETATION-INVERTEBRATE RELATIONSHIPS ON NATURAL AND RESTORED MUDFLATS IN NORTHEAST AND NORTHWEST PACIFIC ESTUARIES
1:45 PM	Karpenko, V. I. : THE ROLE OF KAMCHATKAN ESTUARIES IN THE REPRODUCTION OF PACIFIC SALMON AND SOME COASTAL FISHES
2:00 PM	Maksimenkov, V. V. : FOOD RELATIONSHIPS BETWEEN JUVENILE FISH IN THE ESTUARIES OF KAMCHATKA PENINSULA
2:15 PM	Richardson, J. S. ; Hinch, S. G.: MONITORING OF THE FRASER RIVER ESTUARY USING FISH ASSEMBLAGES: CAN IT BE DONE WITHOUT REFERENCE CONDITIONS?
2:30 PM	Fujii, Y. ; Nomura, T.; Yamaguchi, K.; Murata, B.: A PROPOSAL FOR DESIRABLE DEVELOPMENT ON OSAKA BAY AREA
2:45 PM	Sutherland, G. B. ; Marriott, D. R.: ECOSYSTEM MANAGEMENT AND RESTORATION IN THE LOWER COLUMBIA RIVER AND ESTUARY

SPS-02: Hypersalinity in Estuaries and Coastal Systems

Chair(s): Clifford Hearn, Arnoldo Valle Levinson

Location: 2B

3:30 PM	Largier, J. L. : A REVIEW OF HYPERSALINITY IN ESTUARIES AND COASTAL SYSTEMS.
4:00 PM	Hearn, C. J. ; Sidhu, H. S.: HYPERSALINITY: TO BE OR NOT TO BE?
4:15 PM	Rivera-Monroy, V. H. ; Twilley, R. R.; Castañeda, E.; Martínez, D.; Mancera, E.; Alcantara-Eguren, A.: THE EFFECT OF LARGE SCALE DISTURBANCES ON THE SALINITY REGIMES OF THE CIENAGA GRANDE, COLOMBIA AND THE SAN BERNARDO-PEDREGAL ESTUARIES, HONDURAS.
4:30 PM	Schopmeyer, S. A. ; Koch, M. S.; Madden, C.; Kyhn-Hansen, C.: MULTIPLE STRESSOR EFFECTS ON SEAGRASSES IN FLORIDA BAY: A MESOCOSM RESEARCH APPROACH
4:45 PM	Grajeda-Muñoz, M. M. ; Shumilin, E.; Windom, H.; Smith, R.; Sapozhnikov, D.: TRACE ELEMENTS IN SURFICIAL SEDIMENTS OF A LARGE HYPERSALINE LAGOON, OJO DE LIEBRE, WESTERN BAJA CALIFORNIA PENINSULA, MEXICO.

SPS-03: Making the Connection Between Human Disturbance and Invasion Success

Chair(s): Caren Braby, Kimberly Heiman

Location: 3A

1:15 PM	Wasson, K. ; Fenn, K.; Pearse, J. S.: DIFFERENCES IN INVASION RATES ACROSS MARINE HABITAT TYPES: ARE THOSE SUBJECT TO GREATER HUMAN INFLUENCES MORE INVADED?
1:30 PM	Heiman, K. W. ; Micheli, F.: THE ROLE OF HUMAN INTRODUCED HARD SUBSTRATES IN INVASIVE SPECIES DISTRIBUTIONS AND WITHIN-SYSTEM SPREAD
1:45 PM	Connell, S. D. ; Glasby, T. M.: URBAN STRUCTURES AS INVASIVE HABITAT FOR INVASIVE SPECIES
2:00 PM	Buhle, E. R. ; Ruesink, J. L.; McCoy, L.: LINKING HUMAN DISTURBANCE AND INVASION IMPACTS: HOW SHELLFISH AQUACULTURE MAY MEDIATE THE EXTENT AND CONSEQUENCES OF INVASIONS
2:15 PM	Bertness, M. D. ; Silliman, B. R.: SHORELINE DEVELOPMENT DRIVES THE INVASION OF PHRAGMITES AUSTRALIS AND THE LOSS OF NEW ENGLAND SALT MARSH PLANT DIVERSITY
2:30 PM	Lapointe, B. E.; Barile, P. J. : INVASIVE MACROALGAL BLOOMS IN COASTAL SOUTHEASTERN FLORIDA SUPPORTED BY ANTHROPOGENIC NITROGEN
2:45 PM	Jewett, E. B. ; Hines, A. H.; Ruiz, G. M.: LOW DISSOLVED OXYGEN CREATES POTENTIAL NICHE FOR NEWCOMERS IN THE CHESAPEAKE BAY
3:30 PM	Braby, C. E. ; Somero, G. N.: CHANGING ENVIRONMENTAL BASELINES AND PHYSIOLOGICAL RESPONSES OF NATIVE AND INVASIVE BAY MUSSELS (<i>MYTILUS</i> spp.)
3:45 PM	Peterson, M. S. ; Slack, W. T.; Woodley, C. M.: PERSISTENCE OF NON-INDIGENOUS NILE TILAPIA (<i>Oreochromis niloticus</i>) IN COASTAL WATERSHEDS OF SOUTHERN MISSISSIPPI AND THEIR INFLUENCE ON NATIVE ICHTHYOFAUNA.
4:00 PM	Robertson, T. L. ; Weis, J. S.: AN ANALYSIS OF EPIFAUNAL COMMUNITIES ASSOCIATED WITH THE MARSH GRASSES <i>PHRAGMITES AUSTRALIS</i> AND <i>SPARTINA ALTERNIFLORA</i>
4:15 PM	Grosholz, E. D. ; Levin, L. A.; Neira, C.; Tyler, A. C.: HABITAT CHANGES DUE TO <i>SPARTINA</i> INVASION AND FACILITATION OF INVERTEBRATE INVASIONS
4:30 PM	Draheim, R. C. ; Cordell, J. R.; Sytsma, M. D.; Chapman, J. W.: THE COLUMBIA RIVER ESTUARY: RESULTS FROM THE LOWER COLUMBIA RIVER AQUATIC NONINDIGENOUS SPECIES SURVEY 2001-2003
4:45 PM	Castillo, G. C. ; Li, H. W.; Chapman, J. W.; Miller, T. W.: NONCOEVOLVED SPECIES ASSEMBLAGES IN TWO OREGON ESTUARIES

SPS-04: Ecological and Societal Values of Estuarine Habitats

Chair(s): Steven P. Ferraro

Location: 3B

- 1:15 PM **Ferraro, S. P.**; Cole, F. A.: HABITAT VALUES FOR NEKTON AND BENTHIC MACROFAUNA IN PACIFIC NORTHWEST ESTUARIES
- 1:45 PM **Grabowski, J. H.**; Powers, S. P.; Peterson, C. H.: BIOLOGICAL AND ECONOMIC VALUE OF RESTORED INTERTIDAL OYSTER REEF HABITAT TO THE NURSERY FUNCTION OF ESTUARIES
- 2:00 PM **Gillett, D. J.**; Holland, A. F.; Sanger, D. M.: TEMPORAL VARIATION IN THE OLIGOCHAETE POPULATIONS OF SOUTH CAROLINA TIDAL CREEKS; IS IT THE DEVIL OR THE DEPOSIT FEEDER IN THE DETAIL?
- 2:15 PM **Minello, T. J.**; Rozas, L. P.; Caldwell, P. A.; Matthews, G. A.: APPROACHES TO ESTIMATING NEKTON POPULATIONS IN WETLANDS OF GALVESTON BAY, TEXAS
- 2:30 PM **Cicchetti, G.**; Meng, L.; Raciti, S.: RELATIONSHIPS BETWEEN LARGE-SCALE HABITAT ARRANGEMENT AND JUVENILE WINTER FLOUNDER DENSITY IN NARRAGANSETT BAY AND RHODE ISLAND'S COASTAL LAGOONS
- 2:45 PM **Meng, L.**; Cicchetti, G.; Raciti, S.: RELATIONSHIPS BETWEEN HABITAT QUALITY AND DENSITY OF JUVENILE WINTER FLOUNDER
- 3:30 PM **Chesney, E. J.**; Baltz, D. M.: PATTERNS IN THE EXPRESSION OF EUTROPHICATION: PERSPECTIVES ON FISHERIES AND FISHERIES HABITAT IN COASTAL ECOSYSTEMS
- 3:45 PM **Kneib, R. T.**: HUMAN USE, STRUCTURAL CHANGES AND SUSTAINABILITY OF ECOSYSTEM BENEFITS FROM COASTAL MARSHES
- 4:00 PM **Landis, W. G.**; Hart Hayes, E.; Markiewicz, A. M.: REGIONAL ECOLOGICAL RISK ASSESSMENT AS AN INTERACTIVE MANAGEMENT TOOL APPLIED TO THE COASTAL REGION OF CHERRY POINT, WA. USA
- 4:15 PM **Baltz, D. M.**; Chesney, E. J.; Li, H. W.; Rossignol, P. A.; Switzer, T. S.: QUALITATIVE MODELING OF NATURAL AND ANTHROPOGENIC STRESSORS ON NEKTON IN LOUISIANA COASTAL SYSTEMS
- 4:30 PM **Steyer, G. D.**; Visser, J. M.: THE USE OF CONCEPTUAL MODELS FOR THE ASSESSMENT OF ECOSYSTEM RESTORATION ALTERNATIVES IN COASTAL LOUISIANA
- 4:45 PM **Flannery, M. S.**; Chen, X. C.; Culter, J. K.; Peebles, E. B.; Janicki, A. J.; Vargo, G. A.: AN EVALUATION OF ALLOWABLE REDUCTIONS OF FRESHWATER INFLOWS TO THE ALAFIA RIVER, A NUTRIENT ENRICHED TIDAL RIVER ESTUARY

SPS-05: Nutrient Cycling: Benthic-Pelagic Interactions

Chair(s): Anne Sigleo

Location: 4C2

- 1:15 PM **Cornwell, J. C.**; Owens, M. S.; Boynton, W. S.: DENITRIFICATION AND BENTHIC NUTRIENT FLUXES IN COASTAL SEDIMENTS: HOW DO WE SCALE UP FROM INDIVIDUAL CORE MEASUREMENTS TO WHOLE SYSTEM FLUX ESTIMATES?
- 1:30 PM **Laursen, A. E.**; Seitzinger, S. P.: DENITRIFICATION AT THE WHOLE-REACH SCALE, IMPROVING ESTIMATES AND AVOIDING PITFALLS
- 1:45 PM **Gardner, W. S.**; McCarthy, M. J.; Sobolev, D.; An, S.: SEDIMENT-WATER NITROGEN DYNAMICS ACROSS A RANGE OF SALINITIES IN TEXAS COASTAL ENVIRONMENTS
- 2:00 PM **Aguíñiga, S.**; Herguera, J. C.; Cervantes-Duarte, R. L.; Molina, A.; Verdugo, G.: GEOCHEMICAL EVIDENCE OF FERTILIZATION MECHANISMS IN BAHÍA DE LA PAZ BASIN, MÉXICO.
- 2:15 PM **Sin, Y.**; Sigleo, A. C.: BENTHIC MICROALGAL CONTROL ON THE NUTRIENT FLUX IN INTER-TIDAL FLATS OF THE LOWER YAQUINA ESTUARY, OREGON.
- 2:30 PM **Thomas, F. I.**; Hearn, C.; Cornelisen, C. D.: NUTRIENT UPTAKE BY THE BENTHOS: EFFECTS OF CANOPY CHARACTERISTICS
- 2:45 PM **Bailey, E. M.**; Frank, J.; Rohland, F.; Smail, P.; Stankelis, R.; Boynton, W. R.: SEDIMENT OXYGEN AND NUTRIENT EXCHANGES ACROSS STRONG ESTUARINE GRADIENTS: A COMPARISON OF BIOGEOCHEMICAL PROCESSES FROM MULTIPLE CHESAPEAKE BAY TRIBUTARIES
- 3:30 PM **Clesceri, E. J.**; Alperin, M. J.; Paerl, H. W.; Martens, C. S.: RELATIONSHIP BETWEEN PHYTOPLANKTON COMMUNITY STRUCTURE AND SEDIMENT INVENTORIES OF CHLOROPHYLL A IN THE WEEKLY-FLUSHED NEUSE RIVER ESTUARY, NORTH CAROLINA
- 3:45 PM **D'Andrea, A. F.**; DeWitt, T. H.: DENSITY-DEPENDENT IMPACTS OF BURROWING SHRIMP ON BENTHIC FLUXES IN PACIFIC NORTHWEST ESTUARIES: APPLICABILITY FOR ESTUARINE-SCALE MODELS OF NITROGEN CYCLING
- 4:00 PM **Russell, C. L.**; Pennock, J. R.: THE EFFECT OF SEDIMENT RESUSPENSION ON NUTRIENT AND PHYTOPLANKTON DYNAMICS IN SHALLOW ESTUARIES: A MESOCOSM EXPERIMENT.
- 4:15 PM **Timothy, D.**; Calvert, S.; Shimmield, G.; Soon, M.; Crusius, J.: BUDGETS OF OC, N AND BSI IN AN OXIC AND ANOXIC FJORD BASED ON PRIMARY PRODUCTION, WATER-COLUMN FLUXES AND BOTTOM ACCUMULATION AND PRESERVATION
- 4:30 PM **York, J. K.**; Valielas, I.: ISOTOPIC SIGNATURES OF REGENERATED AMMONIUM: EVIDENCE FOR SUBSEQUENT NITRIFICATION
- 4:45 PM **Poe, A. C.**; Piehler, M. F.; Thompson, S. P.; Paerl, H. W.: TEMPORAL PATTERNS OF NUTRIENT REMOVAL BY A CONSTRUCTED WETLAND IN AN AGRICULTURAL WATERSHED

SPS-06: Advances and Applications in Estuarine Circulation Processes: A Tribute to Donald W. Pritchard

Chair(s): Glenn Cannon, William Boicourt

Location: 4C3

1:15 PM	Blumberg, A. F. : NEW YORK/NEW JERSEY HARBOR ESTUARY CONTAMINANT TRANSPORT MECHANISMS	2:15 PM	Stumpf, R. P. ; Culver, M. E.; Truby, E.; Soracco, M.; Tomlinson, M.; Villareal, T. A.: USING SATELLITE IMAGERY TO MONITOR HARMFUL ALGAL BLOOMS IN THE GULF OF MEXICO
1:45 PM	Kawase, M. ; Babson, A. L.: SEASONAL AND INTERANNUAL VARIABILITY OF CIRCULATION IN A FJORD ESTUARY	2:30 PM	Dyble, J. ; Moisander, P. H.; Piehler, M. F.; Paerl, H. W.: DETECTING THE PRESENCE AND N2 FIXATION ACTIVITY OF THE CYANOBACTERIAL HAB SPECIES <i>CYLINDROSPERMOPSIS RACIBORSKII</i> USING MOLECULAR APPROACHES
2:00 PM	Valle-Levinson, A. : EFFECTS OF BATHYMETRY, FRICTION AND ROTATION ON ESTUARY/OCEAN EXCHANGE	2:45 PM	Woodruff, D. L. ; Evans, N. R.; Trainer, V. L.: USE OF REMOTELY SENSED DATA TO TRACK WATER MASSES ASSOCIATED WITH HARMFUL ALGAL BLOOMS ALONG THE WASHINGTON COAST
2:15 PM	Banas, N. S. ; Hickey, B. M.: DIAGNOSING NON-GRAVITATIONAL EXCHANGE IN STEADY AND UNSTEADY ESTUARIES	3:00 PM	Litaker, W. R. ; Trainer, V. L.; Eberhart, B.; Bonnaventura, C.; Félix-Pico, R.; Tester, P. A.: ELECTROCHEMICAL DETECTION OF DOMOIC ACID
2:30 PM	Brown, G.; McAdory, R. : SALINITY INTRUSION IN THE SABINE-NECHES RIVERS ESTUARY	3:15 PM	Schramm, R. ; Scholin, C.: A SYSTEM FOR DATA ACQUISITION, MANAGEMENT AND ANALYSIS FOR MARINE MICROBIAL SYSTEMS RESEARCH
2:45 PM	Pawlowicz, R. ; Wang, C.: OBSERVING LARGE-SCALE COHERENCE OF GEOPHYSICAL FLOWS USING OBLIQUE TIME-LAPSE PHOTOGRAPHY	3:30 PM	Sellner, K. G. ; Scholin, C.; Kirkpatrick, G.; Evens, T. J.: HAB 'CENTERS OF EXCELLENCE': PROOF OF CONCEPT FOR IDENTIFICATION, DEVELOPMENT, TESTING, AND DISTRIBUTION OF HAB ASSAYS, SENSORS, AND STANDARDS
3:30 PM	Geyer, W. R. : PRODDING PRITCHARD'S PARADIGM: NEW INSIGHTS ABOUT ESTUARINE SALT AND MOMENTUM BALANCES	4:00 PM	Matweyou, J. A.; Stockwell, D. A.; Scholin, C. A.; Hall, S.; Trainer, V. L.; Ray, J. D.; Whitedge, T. E.; Childers, A. R.; Plumley, F. G. : USE OF A MOLECULAR BASED ASSAY FOR THE PREDICTION OF TOXIC EVENTS
3:45 PM	Jay, D. A. : THE SCALING OF ESTUARINE INTERNAL TIDAL ASYMMETRY	4:15 PM	Culver, M. E. ; Watabayashi, G. Y.; Waters, K. J.; Meredith, A.; Stumpf, R. P.: INTEGRATING PREDICTIVE MODELS OF BLOOM MOVEMENT INTO MANAGEMENT TOOLS: THE TRANSPORT MODEL IN THE FLORIDA PANHANDLE
4:00 PM	Gardner, B. ; Chen, R. F.: HIGH RESOLUTION OBSERVATIONS OF PHYSICAL AND CHEMICAL DYNAMICS IN A MICROESTUARY	4:30 PM	Glasgow, H. B. ; Burkholder, J. M.; Lewitus, A. J.; Reed, R. E.; Toms, D. C.; Melia, G. M.: USE OF ADVANCED REAL-TIME REMOTE MONITORING TECHNOLOGIES TO PROVIDE INEXPENSIVE DETECTION, EARLY WARNING, NOTIFICATION, AND MANAGEMENT RESPONSE TO HAB EVENTS
4:15 PM	Wiseman, W. J. ; Rabalais, N. N.; Turner, R. E.: RECENT OBSERVATIONS OF THE LOUISIANA COASTAL CURRENT	4:45 PM	
4:30 PM	Cannon, G. A. ; Ebbesmeyer, C. C.: CIRCULATION AT THE JUNCTION OF TWO ESTUARIES		
4:45 PM	Boicourt, W. C. : CIRCULATION IN TRIBUTARY ESTUARIES		

SPS-07: Research to Management: Adapting Research Tools for the Management of Harmful Algal Blooms

Chair(s): Vera Trainer

Location: 4C4

1:15 PM	Dortch, Q. ; Maier, A. F.; Thessen, A.; Sellers, K.; Morrison, W.; Steidinger, K. A.; Richardson, W. P.; Doucette, G. J.; VanDolah, F. M.; Powell, C.; Leighfield, T.; Turner, R. E.; Moncreiff, C. A.; Pennock, J. R.: EFFECT OF SALINITY ON THE GROWTH, DISTRIBUTION, AND TOXICITY OF HAB SPECIES
1:30 PM	Rick, J. J. ; Rick, S.: PHYTOPLANKTON COMMUNITY RESPONSE TO RIVER DIVERSIONS IN THE CAERNARVON-BRENTON SOUND AREA (LOUISIANA): SEASONAL EFFECTS OF NUTRIENT ENRICHMENTS
1:45 PM	Buskey, E. J. ; Hyatt, C. J.: USE OF THE FLOWCAM FOR SEMI-AUTOMATED RECOGNITION AND ENUMERATION OF RED TIDE CELLS (<i>KARENIA BREVIS</i>) IN NATURAL PLANKTON SAMPLES
2:00 PM	Richardson, T. L. ; Pinckney, J. L.: DEVELOPMENT OF IMPROVED MONITORING CAPABILITIES FOR <i>KARENIA BREVIS</i> USING GYROXANTHIN-BASED DETECTION METHODS

2:15 PM	Stumpf, R. P. ; Culver, M. E.; Truby, E.; Soracco, M.; Tomlinson, M.; Villareal, T. A.: USING SATELLITE IMAGERY TO MONITOR HARMFUL ALGAL BLOOMS IN THE GULF OF MEXICO
2:30 PM	Dyble, J. ; Moisander, P. H.; Piehler, M. F.; Paerl, H. W.: DETECTING THE PRESENCE AND N2 FIXATION ACTIVITY OF THE CYANOBACTERIAL HAB SPECIES <i>CYLINDROSPERMOPSIS RACIBORSKII</i> USING MOLECULAR APPROACHES
2:45 PM	Woodruff, D. L. ; Evans, N. R.; Trainer, V. L.: USE OF REMOTELY SENSED DATA TO TRACK WATER MASSES ASSOCIATED WITH HARMFUL ALGAL BLOOMS ALONG THE WASHINGTON COAST
3:00 PM	Litaker, W. R. ; Trainer, V. L.; Eberhart, B.; Bonnaventura, C.; Félix-Pico, R.; Tester, P. A.: ELECTROCHEMICAL DETECTION OF DOMOIC ACID
3:15 PM	Schramm, R. ; Scholin, C.: A SYSTEM FOR DATA ACQUISITION, MANAGEMENT AND ANALYSIS FOR MARINE MICROBIAL SYSTEMS RESEARCH
3:30 PM	Sellner, K. G. ; Scholin, C.; Kirkpatrick, G.; Evens, T. J.: HAB 'CENTERS OF EXCELLENCE': PROOF OF CONCEPT FOR IDENTIFICATION, DEVELOPMENT, TESTING, AND DISTRIBUTION OF HAB ASSAYS, SENSORS, AND STANDARDS
4:00 PM	Matweyou, J. A.; Stockwell, D. A.; Scholin, C. A.; Hall, S.; Trainer, V. L.; Ray, J. D.; Whitedge, T. E.; Childers, A. R.; Plumley, F. G. : USE OF A MOLECULAR BASED ASSAY FOR THE PREDICTION OF TOXIC EVENTS
4:15 PM	Culver, M. E. ; Watabayashi, G. Y.; Waters, K. J.; Meredith, A.; Stumpf, R. P.: INTEGRATING PREDICTIVE MODELS OF BLOOM MOVEMENT INTO MANAGEMENT TOOLS: THE TRANSPORT MODEL IN THE FLORIDA PANHANDLE
4:30 PM	Glasgow, H. B. ; Burkholder, J. M.; Lewitus, A. J.; Reed, R. E.; Toms, D. C.; Melia, G. M.: USE OF ADVANCED REAL-TIME REMOTE MONITORING TECHNOLOGIES TO PROVIDE INEXPENSIVE DETECTION, EARLY WARNING, NOTIFICATION, AND MANAGEMENT RESPONSE TO HAB EVENTS
4:45 PM	

SYM-01: Historic and Current Use and Management of Estuarine Environments by Indigenous and Pre-Industrial People in Pacific Rim Nations

Chair(s): W. Greg Hood, Sandy Wyllie-Echeverria

Location: 2A

1:15 PM	Collins, B. D. : THE BIOPHYSICAL CHARACTER OF PUGET SOUND'S LARGE DELTA-ESTUARIES AT THE TIME OF EARLY EURO-AMERICAN SETTLEMENT
1:30 PM	Striplen, C. J. ; Grossinger, R. M.: RECONSTRUCTING THE ECO-CULTURAL LANDSCAPE AT BAY'S EDGE: IMPLICATIONS FOR CONTEMPORARY ENVIRONMENTAL MANAGEMENT IN THE SAN FRANCISCO BAY AREA.
1:45 PM	Deur, D. E. ; Turner, N. J.; Dick, A.; Recalma-Clutesi, K.: THE COLONIAL HISTORY OF THE KINGCOME RIVER ESTUARY ON THE CENTRAL COAST OF BRITISH COLUMBIA
2:00 PM	Ryan, T. L. : INTEGRATING TEK AND ETHNO-ECOLOGY INTO ESTUARINE MANAGEMENT AND RESTORATION ECOLOGY: PERSPECTIVES FROM TRADITIONAL PACIFIC NW BASKET WEAVING

2:15 PM	Aioi, K. : A COMPARISON OF HISTORIC AND CURRENT USES OF ESTUARINE ENVIRONMENTS BY INDIGENOUS AND PRE-INDUSTRIAL PEOPLE ON THE ISLANDS OF RURAL JAPAN	Blakesley, B. A. ; Hall, M. O.; Landsberg, J. H.; Reese, R. O.; Berns, D. M.; White, M. W.; Durako, M. J.: DIFFERENTIAL IMPACTS OF <i>LABYRINTHULA</i> SP. INFECTION, INFESTATION, AND DISEASE ON THE SEAGRASS <i>THALASSIA TESTUDINUM</i> (BANKS EX KONIG) IN FLORIDA BAY, USA
2:30 PM	Blukis Onat, A. R. : ARCHAEOLOGY OF THE INTERTIDAL FISHERY: A SKAGIT ESTUARY EXAMPLE	Burton, J. L. ; Cornwell, J. C.; Kemp, W. M.; Owens, M. S.: THE EFFECTS OF MICROPHYTOBENTHOS ON NITROGEN CYCLING: A COMPARISON BETWEEN SUBTROPICAL AND TEMPERATE ESTUARIES
2:45 PM	Barsh, R. L. : RELIC ESTUARIES IN THE SAN JUAN ISLANDS: PRELIMINARY INVESTIGATIONS AT DEER HARBOR, FALSE BAY, AND WALDRON ISLAND	Butzler, R. E. ; Romigh, M. M.; Simons, B.; Davis, S. E.: BENTHIC MACRO INVERTEBRATE COMMUNITIES AND HABITAT CHARACTERISTICS OF CREATED AND NATURAL MARSHES IN GALVESTON BAY, TEXAS
3:30 PM	Sepež, J. A. : CONTINUITY AND CHANGE IN SUBSISTENCE USE OF AQUATIC RESOURCES BY THE MAKAH TRIBE FROM THE PRE-COLONIAL ERA TO TODAY	Caffrey, J. M. ; Murrell, M. C.; Wigand, C.; McKinney, R.: EFFECT OF NUTRIENT LOADING ON BIOGEOCHEMICAL AND MICROBIAL PROCESSES IN A NEW ENGLAND HIGH SALT MARSH (<i>SPARTINA PATENS</i>)
3:45 PM	Backman, T. W. : MODERN TRIBAL CULTURAL AND ECONOMIC INTEREST IN THE COLUMBIA RIVER TIDEWATERS.	Caffrey, J. M. ; Ross, S. W.; Ott, J.: WITHIN ESTUARY SPATIAL VARIATION IN PRODUCTION, RESPIRATION AND NET ECOSYSTEM METABOLISM
4:00 PM	Jayawardane, A. T. : SOME OBSERVATIONS ON THE TRADITIONAL SHRIMP FISHERY IN THE NEGOMBO LAGOON, SRI LANKA	Carmichael, R. H. ; Valiela, I.: FOOD SOURCES AND STABLE ISOTOPIC SIGNATURE ACQUISITION OF BIVALVES IN ESTUARIES SUBJECT TO DIFFERENT N LOADS
4:15 PM	Gold, J. ; Hardison, P. D.; Williams, T.: THE TULALIP TRIBES CULTURAL STORIES PROJECT: RECORDING AND USING TRADITIONAL KNOWLEDGE FOR CULTURAL LANDSCAPE RECOVERY	Chamberlain, A. H. ; Feller, I. C.: EFFECTS OF NUTRIENT ENRICHMENT ON DECOMPOSITION IN A MANGROVE ECOSYSTEM IN THE INDIAN RIVER LAGOON, FLORIDA
4:30 PM	Hardison, P. ; Williams, T.: THE LEGAL AND INSTITUTIONAL CONTEXT OF INCORPORATING INDIGENOUS KNOWLEDGE INTO FISHERIES MANAGEMENT	Childs, C. R. ; Proctor, L. M.: SPATIAL AND INTER-ANNUAL VARIABILITY IN BENTHIC NITROGEN CYCLING IN THE GULF OF MEXICO HYPOXIC ZONE.

Poster Session: Ecological Processes

Location: Exhibit Hall 4E

Time: 5:30 PM – 6:30 PM

Aguíñiga, S.; Félix-Pico, E. F.; Palomares-Garcia, R.; Gonzalez-Acosta, B.; Holguin-Quiñonez, O.; Carriquiry-Beltran, J. D.; Grajeda-Muñoz: D¹³C, D¹⁵N-POM FROM MANGROVE AND PHYTOPLANKTON AS ALTERNATING FOOD SOURCES IN TWO SUBTROPICAL MANGROVE ECOSYSTEMS.

Allee, B.; Madden, C.; Grossman, D.; Brown, D.; Hourigan, T.: DEVELOPMENT OF A NATIONAL COASTAL/MARINE CLASSIFICATION STANDARD FOR THE UNITED STATES

Anderson, E. P.; Lipovsky, S.: BENTHIC RECOVERY FOLLOWING NET PEN SALMON AQUACULTURE

Apodaca, M. M.; Wijte, A.: AN *IN SITU* METHOD FOR DETERMINING OXYGEN PRODUCTION BY SEDIMENTARY MICROALGAE

Barnes, T. B.; Mazzotti, F. J.; Pearlstine, L. G.; DeAngelis, D. L.; Starnes, S. M.: AN INTEGRATED APPROACH FOR EVALUATING COMPREHENSIVE EVERGLADES RESTORATION PLAN PROJECTS: LINKING SCIENCE AND MANAGEMENT IN THE SW FLORIDA FEASIBILITY STUDY

Bergamaschi, B. A.; Downing, B. D.; Wheeler, G. A.; Schoellhamer, D. H.; Ganju, N.; Fram, M. S.; Erickson, D. E.; Kendall, C.; Bemis, B. E.; Stepanauskas, R.; Hollibaugh, J. T.; Fujii, R.: QUANTIFYING THE CONTRIBUTIONS OF TIDAL WETLANDS TO DISSOLVED ORGANIC MATERIAL IN THE SAN FRANCISCO ESTUARY, CALIFORNIA, USA

Blakesley, B. A.; Hall, M. O.; Landsberg, J. H.; Reese, R. O.; Berns, D. M.; White, M. W.; Durako, M. J.: DIFFERENTIAL IMPACTS OF *LABYRINTHULA* SP. INFECTION, INFESTATION, AND DISEASE ON THE SEAGRASS *THALASSIA TESTUDINUM* (BANKS EX KONIG) IN FLORIDA BAY, USA

Burton, J. L.; Cornwell, J. C.; Kemp, W. M.; Owens, M. S.: THE EFFECTS OF MICROPHYTOBENTHOS ON NITROGEN CYCLING: A COMPARISON BETWEEN SUBTROPICAL AND TEMPERATE ESTUARIES

Butzler, R. E.; Romigh, M. M.; Simons, B.; Davis, S. E.: BENTHIC MACRO INVERTEBRATE COMMUNITIES AND HABITAT CHARACTERISTICS OF CREATED AND NATURAL MARSHES IN GALVESTON BAY, TEXAS

Caffrey, J. M.; Murrell, M. C.; Wigand, C.; McKinney, R.: EFFECT OF NUTRIENT LOADING ON BIOGEOCHEMICAL AND MICROBIAL PROCESSES IN A NEW ENGLAND HIGH SALT MARSH (*SPARTINA PATENS*)

Caffrey, J. M.; Ross, S. W.; Ott, J.: WITHIN ESTUARY SPATIAL VARIATION IN PRODUCTION, RESPIRATION AND NET ECOSYSTEM METABOLISM

Carmichael, R. H.; Valiela, I.: FOOD SOURCES AND STABLE ISOTOPIC SIGNATURE ACQUISITION OF BIVALVES IN ESTUARIES SUBJECT TO DIFFERENT N LOADS

Chamberlain, A. H.; Feller, I. C.: EFFECTS OF NUTRIENT ENRICHMENT ON DECOMPOSITION IN A MANGROVE ECOSYSTEM IN THE INDIAN RIVER LAGOON, FLORIDA

Childs, C. R.; Proctor, L. M.: SPATIAL AND INTER-ANNUAL VARIABILITY IN BENTHIC NITROGEN CYCLING IN THE GULF OF MEXICO HYPOXIC ZONE.

Cinkovich, A. M.: FATE AND IMPORTANCE OF SEAGRASS DETRITUS IN BIG LAGOON, FL

Craig, A. H.; Alexander, C. R.; Alber, M.: GIS-BASED COMPARISONS OF GEOMORPHIC VARIABLES IN A RESTORED AND NATURAL MARSH IN GEORGIA

Curran, M. C.; Maher, B. F.: MONITORING OF UNHEALTHY “BROWN” SALT MARSH NEAR SAVANNAH, GA

Davis, J. L.; Kemp, W. M.; Cornwell, J. C.: EFFECT OF THE SEAGRASS, *THALASSIA TESTUDINUM*, ON SEDIMENT BIOGEOCHEMICAL PROCESSES

Dean, A. F.; Bollens, S. M.; Gewant, D.: TITLE: POPULATION DYNAMICS OF *NEOMYSIS KADIAKENSIS* AND MYSID FLUX AT CHINA CAMP, SAN FRANCISCO ESTUARY.

Donovan, C.; Madden, C. J.; Rudnick, D. T.; Kelly, S. P.: QUANTIFICATION OF THE COLORED DISSOLVED ORGANIC MATTER SOURCE IN NORTHEASTERN AND CENTRAL FLORIDA BAY WITH A FLOW-THROUGH MAPPING SYSTEM.

Dumbauld, B.; Ruesink, J.; Macrellis, H.; Oyarzun, F.; Hacker, S.: INTERACTIONS BETWEEN OYSTER AQUACULTURE AND SEAGRASS (*ZOSTERA MARINA*) IN ESTUARIES ALONG THE WEST COAST OF NORTH AMERICA

Estevez, E. D.: ECOLOGY AND HEALTH OF CHARLOTTE HARBOR, FLORIDA: NEW MULTI-DISCIPLINARY DISCOVERIES AFFECTING SCIENCE AND MANAGEMENT OF A CHANGING SUBTROPICAL ESTUARY.

- Farineau, J. A.**; Volety, A. K.; Savarese, M.; Tolley, S. G.; Winstead, J. T.: THE DISTRIBUTION AND PREVALENCE OF THE CASTRATOR PARASITE *LOXOTHYLACUS PANOPAEI* AND THE MUD CRAB *PANOPEUS SIMPSONI* IN THREE SOUTHWEST FLORIDA ESTUARIES
- Franz, B.**; Patchineelam, S. M.; Patchineelam, S. R.: PARTICULATE MATTER DISPERSION WITHIN A TROPICAL POLLUTED ESTUARINE MIXING ZONE: SEPETIBA BAY, BRAZIL.
- Gibson, P. J.**; Dailey, S. K.; Boyer, J. N.: DOES DOM HAVE A ROLE IN PROMOTING CYANOBACTERIAL BLOOMS IN FLORIDA BAY, USA?
- Goeck, B.**; Baird, D.; Asmus, H.; Asmus, R.: INORGANIC BENTHIC NUTRIENT FLUXES BETWEEN THE SEDIMENT AND THE WATER COLUMN IN THE SYLT-RØMØ BIGHT, GERMANY.
- Gomes-Filho, J. G.**; Thompson, R. C.; Hawkins, S. J.; Coleman, R. A.: DISTRIBUTION OF BARNACLE SPECIES ON ESTUARIES FROM SOUTHWEST COAST OF BRITAIN: ROLE OF LARVAL SUPPLY, SETTLEMENT AND ADULT TOLERANCE TO PHYSICAL CONDITIONS
- Guest, M. A.**; Connolly, R. M.; Loneragan, N. R.: ESTUARINE FOOD WEB PROCESSES: EAT HOME GROWN OR EAT HOME DELIVERY?
- Herrera-Silveira, J. A.**; Comin, F. A.; Zaldivar, J. A.; Ramirez, R. J.: LONG-TERM HYDROLOGY ANALYSIS OF TROPICAL COASTAL LAGOONS AS AN APPROACH TO STABLISH THEIR ECOSYSTEM STABILITY.
- Hester, M. W.**; Fisher, K. J.: RESPONSE OF *PANICUM HEMITOMON* FLOATING FRESHWATER MARSH TO INCREASED SALINITY LEVELS AND NUTRIENT LOADING RATES
- Higgins, K. F.**; Brennan, J. S.: TEMPORAL AND SPATIAL CHARACTERISTICS OF SHALLOW NEARSHORE FISH COMMUNITIES IN CENTRAL PUGET SOUND
- Hogue, V. E.**; Dugdale, R. C.; Marchi, A.; Lassiter, A. M.; Wilkerson, F.: NITROGEN LIMITATION OF ESTUARINE PRIMARY PRODUCTION: THE RELATIVE ROLES OF ANTHROPOGENIC AMMONIUM VERSUS NITRATE IN SAN FRANCISCO BAY
- Holyoke, R. R.**; Newell, R. I.; Cornwell, J. C.; Owens, M. S.; Meritt, D.: THE ROLE OF MICROPHYTOBENTHOS IN DENITRIFICATION AND NUTRIENT FLUXES AT THE SEDIMENT-WATER INTERFACE IN A SHALLOW, TIDAL TRIBUTARY OF CHESAPEAKE BAY, USA
- Hosack, G. R.**; Armstrong, D. A.; Dumbauld, B. R.; Semmens, B. X.; Ruesink, J. L.: RELATIONSHIPS BETWEEN HABITAT AND COMMUNITY STRUCTURES IN THE LOW INTERTIDAL ZONE OF A LARGE PACIFIC NORTHWEST ESTUARY
- Jeanssonne, M. M.**: BUGS & TMDLS: AN EVALUATION OF MACRO-INVERTEBRATE COMMUNITIES IN THE ST. JOHNS RIVER, FLORIDA
- Jorgensen, P.**; Ibarra-Obando, S. E.; Carriquiry, J. D.: COUPLED TOP-DOWN/BOTTOM-UP CONTROLS OF *ZOSTERA MARINA* GROWTH IN A TEMPERATE SEAGRASS SYSTEM
- Kelly, S. P.**; Madden, C. J.; Rudnick, D. T.; Donovan, C.; Creasser, J. C.: FATE AND EFFECTS OF EVERGLADES DISSOLVED ORGANIC MATTER IN FLORIDA BAY
- Koch, M. S.**; Gras, A. F.; Madden, C.: PHOSPHORUS UPTAKE KINETICS OF THE TROPICAL SEAGRASS *THALASSIA TESTUDINUM*
- Kreeger, D. A.**; Thomas, R. L.; Raksany, D. L.; Saxe, N. E.; Collins, J. A.; Velinsky, D. J.: SPATIAL AND TEMPORAL VARIABILITY IN FITNESS AND C AND N STABLE ISOTOPE COMPOSITION OF *CRASSOSTREA VIRGINICA* IN SAN ANTONIO BAY, TEXAS.
- Kropp, R. K.**; Keay, K. E.; Diaz, R. J.; Blake, J. A.; Gallagher, E. D.: INFAUNAL COMMUNITY CHANGES IN MASSACHUSETTS BAY SEDIMENTS AFTER A SEVERE WINTER STORM
- Laursen, K. R.**; Mendelsohn, I. A.: THE EFFECTS OF NUTRIENT ADDITION ON THE DECOMPOSITION OF *SAGITTARIA LANCIFOLIA* L. (ALISMATACEAE) AND COTTON STRIPS IN AN OLIGOHALINE MARSH
- Maricle, B. R.**; Lee, R. W.: CHANGES IN CARBON AND NITROGEN ISOTOPIC COMPOSITION OF C4 ESTUARINE GRASSES UNDER DIFFERENT SALINITY LEVELS
- May, P. I.**: THE USE OF ENGINEERED EXCLOSURE DESIGN IN EXPERIMENTAL ECOLOGY AND RESTORATION OF TIDAL FRESHWATER MARSH SYSTEMS IN WASHINGTON, D.C.
- McDonald, E. A.**; Stanko, L. W.: COMMUNITY RESPIRATION IN WINYAH BAY ESTUARY, GEORGETOWN, SOUTH CAROLINA
- Moss, J. A.**; Snyder, R. A.; Lepo, J. E.: FLUORESCENCE DIACETATE HYDROLYSIS AS A SURROGATE FOR MICROBIAL HETEROTROPHIC ACTIVITY IN INTACT ESTUARINE BIOFILMS
- Moy, C. Y.**; Jutte, P. C.: DEVELOPMENT AND VALIDATION OF AN ESTUARINE BIOTIC INTEGRITY INDEX FOR SOUTH CAROLINA TIDAL CREEKS
- Mulholland, M. R.**; Boneillo, G.; Bernhardt, P.; Minor, E.; Simjouw, J. P.; Lee, C.: COMPETITION FOR ORGANIC RESOURCES: BACTERIA VERSUS *AUREOCOCCUS ANOPHAGEFFERENS*
- Nagel, E. D.**; Cornwell, J. C.; Kemp, W. M.; Owens, M. S.: NITROGEN FIXATION IN MICROPHYTOBENTHOS-DOMINATED ZONES OF FLORIDA BAY
- Neubauer, S. C.**; Givler, K. A.; Valentine, S. K.; Megonigal, J. P.: RHIZOSPHERE EFFECTS ON ANAEROBIC METABOLISM IN WETLANDS
- Nietch, C. T.**; Morris, J. T.: THE RELATIVE FATE OF CARBON AMONG DIFFERENT INTERTIDAL MARSH COMMUNITIES
- Nocker, A.**; Snyder, R. A.; Lepo, J. E.; Moss, J. A.; Huggins, T.: MOLECULAR ANALYSIS OF HABITAT SPECIFICITY IN ESTUARINE MICROBIAL BIOFILM COMMUNITY STRUCTURES
- Park, W.**; Shirley/Dr., T. C.: VERTICAL MIGRATION AND SEASONAL TIMING OF THREE SYMPATRIC *CANCER* spp. LARVAE
- Parker III, F. M.**; Anderson, I. C.: QUANTIFYING THE FATE OF CARBON AND NITROGEN IN LITTORAL ZONE ESTUARINE ECOSYSTEMS THROUGH THE USE OF STABLE ISOTOPIC TRACERS
- Peierls, B. L.**; Paerl, H. W.: BACTERIAL AND ALGAL PRODUCTIVITY ALONG A SALINITY GRADIENT IN A SHALLOW EUTROPHIC ESTUARY.
- Pennington, L. J.**; Snyder, R. A.; Lepo, J. E.; Ederington-Hagy, M.; Rondon, A. N.; Davis, R. H.: HABITAT FIDELITY OF ESTUARINE MICROBIAL BIOFILMS DETERMINED FROM ANALYSIS OF PHOSPHOLIPIDS

- Porter, E. T.**; Sanford, L. P.; Mason, R. P.: EFFECTS OF BIVALVE SUSPENSION-FEEDERS AND BOTTOM SHEAR STRESS ON ECOSYSTEM PROCESSES: EXPERIMENTS WITH SCALED WATER COLUMN TURBULENCE AND BOTTOM SHEAR
- Poulton, V. K.**; Lovvorn, J. R.; Takekawa, J. Y.: SPATIAL AND OVERWINTER CHANGES IN CLAM POPULATIONS OF SAN PABLO BAY, A SEMIARID ESTUARY WITH HIGHLY VARIABLE FRESHWATER INFLOW
- Pregnall, A. M.**; Heffner, L. R.: EFFECTS OF ANOXIA AND ALGAL MATS ON NUTRIENT RELEASE FROM COASTAL POND SEDIMENTS
- Pribble, J. R.**; Janicki, A. J.; Lindeman, D.; Hoke, D.: PREDICTION OF THE EFFECTS OF A COASTAL DESALINATION FACILITY AT ANCLOTE, FLORIDA, USING A HYDRODYNAMIC MODEL
- Proctor, L. M.**; MacAuley, S. R.; Outen, H.: CHARACTERIZATION OF N CYCLING MICROORGANISMS IN BIOFILMS FROM GULF OF MEXICO ESTUARINE ENVIRONMENTS
- Reaugh, M. L.**; Roman, M. R.; Stoecker, D. K.: MESOZOOPLANKTON GRAZING ON MICROZOOPLANKTON: THE AFFECT OF FOOD WEB DYNAMICS ON THE POTENTIAL FOR HARMFUL ALGAL BLOOM FORMATION
- Redalje, D. G.**; Phelps, E. I.; Holtermann, K. E.; Rowe, E. A.; Natter, M. J.; Sawant, P. A.; Pluhar, R. J.: EVALUATING ENVIRONMENTAL QUALITY FOR THE BAY OF ST. LOUIS, MISSISSIPPI
- Revilla, M.**; Heil, C. A.; Glibert, P. M.; Murasko, S.; Alexander, J.; Hollander, D. J.: PHYTOPLANKTON AND BACTERIAL RESPONSES TO INORGANIC AND ORGANIC NUTRIENT ENRICHMENT IN FLORIDA BAY
- Rick, S.**; Twilley, R. R.; Rick, J. J.; Baker, J. A.: BENTHIC AND PELAGIC NUTRIENT CYCLING IN A COASTAL WATERSHED INFLUENCED BY RIVER DIVERSIONS (CAERNARVON, LOUISIANA)
- Robinson, N. M.**; Walters, L. J.: ASEXUAL REPRODUCTION VIA FRAGMENTATION IN THE BRYOZOAN ZOOBOTRYON VERTICILLATUM
- Rocha, A. M.**; Mulholland, M. R.; Bernhardt, P.; Watson, A. M.; Boneillo, G.; Reynolds, S.: UPTAKE OF THYMIDINE AND LEUCINE BY PHYTOPLANKTON: IMPLICATIONS FOR BACTERIAL PRODUCTIVITY ESTIMATES.
- Rogers, M. T.**; Dailey, S. K.; Boyer, J. N.: BACTERIA BIOMASS AND PRODUCTION IN FLORIDA BAY, USA
- Schaffner, L. C.**: EFFECTS OF LARGE-SCALE SEABED DISTURBANCES ON RECOLONIZATION AND SUCCESSION OF MACROBENTHOS IN AN ESTUARINE SETTING
- Schile, L. M.**; Mopper, S.: SALINITY STRESS DECREASES THE PERFORMANCE OF A LEAFMINING INSECT ON A NATIVE WETLAND LOUISIANA IRIS
- Segura, B. D.**; Perez, B. C.; Olney, T. T.; Cahoon, D. R.; Swarzenski, C. M.: A COMPARISON OF MARSH SURFACE ELEVATIONS FOLLOWING A LARGE-SCALE DIEBACK OF *SPARTINA ALTERNIFLORA* IN THE TERREBONNE BASIN OF COASTAL LOUISIANA
- Sellner, S. G.**; Lacouture, R. V.; Morrell, C. A.; Burton, W.; Sellner, K. G.: INTER-RELATIONSHIPS BETWEEN CILIATES, ROTIFERS, AND COPEPODS IN MESOHALINE CHESAPEAKE BAY
- Simons, J. D.**; Bronson, J. M.; Smith, C. R.: NATIONAL COASTAL ASSESSMENT: A CATALYST TOWARD AN INTEGRATED ASSESSMENT OF THE HEALTH OF TEXAS ESTUARINE ECOSYSTEMS??
- Slocum, M. G.**; Mendelsohn, I. A.: MULTISTRESSOR EFFECTS ON VEGETATION AND SOILS IN A OLIGOHALINE MARSH IN LOUISIANA
- Smith, J. P.**; Wilbur, A. R.; Carlisle , B. K.: EVALUATION OF METRICS FOR AN INDEX OF BIOTIC INTEGRITY FOR HIGHER TROPHIC COMMUNITIES IN SALT MARSHES IN MASSACHUSETTS
- Snyder, R. A.**; Lepo, J. E.; Proctor, L.; Nocker, A.; Pennington, L. J.; Moss, J. A.; Huggins, T.: MICROBIAL BIOFILMS AS INDICATORS OF ESTUARINE CONDITION
- Stark, K. A.**: GEODUCK CLAM DISTRIBUTION & TISSUE CHEMISTRY STUDIES IN PUGET SOUND
- Steinberg, N. D.**; Suszkowski, D. J.; Clark, L. B.; Way, J.: TRACKING ENVIRONMENTAL INDICATORS FOR THE NY/NJ HARBOR ESTUARY: ONE APPROACH TO ESTUARINE MONITORING
- Stevenson, C.**: THE EFFECT OF PRESERVATION ON STABLE ISOTOPIC RATIOS OF FISH TISSUE: IMPLICATIONS FOR ASSESSING CHANGES IN ESTUARINE FOOD WEBS
- Struck, S. D.**; Craft, C. B.; Schimmelman, A.: SOIL ACCRETION, CARBON ACCUMULATION, AND SULFUR AND NITROGEN CYCLING IN AN IRREGULARLY FLOODED, CREATED MARSH USING STABLE ISOTOPES (C, N, AND S)
- Tolley, S. G.**; Volety, A. K.; Savarese, M.; Winstead, J. T.: THE INFLUENCE OF SALINITY ON THE HABITAT VALUE OF OYSTER REEFS IN THREE SOUTHWEST FLORIDA ESTUARIES
- Tunberg, B. G.**: ECOLOGICAL IMPACT OF WETLAND IMPOUNDMENT ON FIDDLER CRAB POPULATIONS, INDIAN RIVER LAGOON, FLORIDA
- Turner, J. P.**; Rooker, J. R.: EFFECT OF DIET ON FATTY ACID SIGNATURES AND TURNOVER RATES IN AN ESTUARINE-DEPENDENT FISH
- Udy, J. W.**; Longstaff, B. J.; Pantus, F. J.: MONITORING ECOSYSTEM HEALTH: NOVEL APPROACHES FROM AUSTRALIA.
- Van Oevelen, J.**; Soetaert, K.; Middelburg, J. J.: INVERSE THEORY AS A TOOL IN STABLE ISOTOPE STUDIES
- Visintainer, T. A.**; Bollens, S. M.; Simenstad, C.; Dean, A.; Avent, S.: FISH USE OF A TIDAL SALT MARSH (CHINA CAMP, SAN FRANCISCO ESTUARY) AS A FUNCTION OF CHANNEL ORDER
- Vivian, D. N.**; Rakocinski, C. F.: EARLY GROWTH OF POST-LARVAL GULF KILLIFISH (*FUNDULUS GRANDIS* BAIRD AND GIRARD) IN A RESTORED AND NATURAL MARSH IN SOUTHERN MISSISSIPPI
- Volety, A. K.**; Tolley, S. G.; Savarese, M.: OYSTER RESPONSES AS PROXIES IN SETTING TARGET WATER QUALITY CONDITIONS FOR RESTORATION OF SW FLORIDA ESTUARIES.
- Walters, L. J.**; Wall, L. M.; Sacks, P. E.: INTERTIDAL OYSTER REEFS IN FLORIDA: IMPACTS OF RECREATIONAL BOATING ON REEF PERSISTENCE AND RESTORATION PRACTICES

- Ward, K. M.**; Ablog, M. A.; He, M. L.: DEVELOPING BIOLOGICAL CRITERIA FOR MECHANICAL EXCAVATION OF A RESTORED MARSH SUBJECT TO PERIODIC TIDAL CLOSURE.
- West, T. L.**; Corbett, D. R.; Clough, L. M.; Calfee, M. W.; Frank, J. E.: EFFECTS OF WIND VERSUS COMMERCIAL FISH TRAWLING ON NUTRIENT LOADING AND WATER COLUMN PRODUCTIVITY IN THE PAMLICO RIVER ESTUARY, NORTH CAROLINA.
- Westhead, M. C.**; Reynoldson, T. B.: THE REFERENCE CONDITION APPROACH: ON TRIAL IN THE BAY OF FUNDY
- Whelan, K. R.**; Smith III, T. J.: CHARACTERISTICS OF LIGHTNING GAPS IN THE MANGROVE FORESTS OF SOUTH FLORIDA.
- Wissel, B.**; Gace, A.; Fry, B.: STABLE ISOTOPES AS A TOOL TO TRACE RIVER-DERIVED PARTICULATE ORGANIC CARBON AND NITROGEN IN ESTUARIES
- Withers, K.**; Simons, J.: CHARACTERIZATION OF BENTHIC COMMUNITY COMPOSITION AND STRUCTURE ON THE TEXAS GULF COAST FROM NATIONAL COASTAL ASSESSMENT SAMPLING, 2000-2002.
- Woolcott, C. A.**; Weis, J. S.: NEKTON USE OF DIFFERENT MARSH GRASSES
- Ford, K. H.**; King, J. W.: HOLOCENE ENVIRONMENTAL CHANGE AND HURRICANES IN A COASTAL LAGOON, RHODE ISLAND
- Giordani, G.**; Murray, N.; Zaldivar, J. M.; Viaroli, P.: LAGUNET, THE ITALIAN LAGOON OBSERVATIONAL NETWORK. EVALUATION OF FLUXES AND DERIVED ECOSYSTEM FUNCTIONS IN THE TRANSITION ZONES ALONG THE ITALIAN COAST.
- Hertler, H.**; Kreeger, D. A.; Ramirez, G. I.: EFFECTS OF NEW LAND DEVELOPMENT ON SEAGRASSES IN THE VICINITY OF LA PARGUERA, PUERTO RICO
- Ibarra-Obando, S. E.**; Smith, S. V.; Camacho-Ibar, V. F.; Poumian-Tapia, M.; Carriquiry, J. D.; Montes, M.: BENTHIC METABOLISM IN SAN QUINTIN BAY, A MEXICAN HYPER SALINE COASTAL LAGOON.
- Lim, H. S.**; Je, J. G.: COMMUNITY STRUCTURE OF MACROZOOBENTHOS ON HAMPYUNG TIDAL FLAT, WEST COAST OF KOREA
- Liss, J. L.**; Walters, L. J.; Beach, K. S.: PHYSIOLOGICAL ECOLOGY OF DRIFT ALGAE IN MOSQUITO LAGOON
- Loureiro, S.**; Newton, A.; Icely, J. D.: NUTRIENT AVAILABILITY AND PHYTOPLANKTON COMPOSITION IN THE RIA FORMOSA COASTAL LAGOON (S. PORTUGAL), SPATIAL AND SEASONAL VARIABILITY
- Ma, S.**; Luther, G. W.; Trouwborst, R.; Glazer, B.; Blickley, M.; Scarborough, R. W.; Mensinger, M. G.: SEASONAL ANOXIA DEVELOPMENT IN SHALLOW DEAD END CANALS AND TRIBUTARIES OF DELAWARE INLAND BAYS
- Marshall, F. E.**; Browder, J.; Smith, D.; Nickerson, D.: USING STATISTICAL MODELS TO SIMULATE HYPER SALINE CONDITIONS IN FLORIDA BAY, EVERGLADES NATIONAL PARK
- Pinckney, J. L.**; Steppe, T. F.; Paerl, H. W.: COMMUNITY COMPOSITION AND PHOTOACCLIMATION RESPONSES OF MICROBIAL MATS IN A HYPER SALINE LAGOON, SAN SALVADOR, BAHAMAS
- Thatcher, L. A.**: EFFECTS OF SALTWATER INTRUSION ON CARBON STORAGE IN FRESHWATER WETLANDS: IMPLICATIONS FOR GLOBAL WARMING AND SEA LEVEL RISE
- Torres, R. A.**; Ramírez, F. V.; Fernández, F. P.; Barriga, I. S.; Gutiérrez, F. M.: ABUNDANCE AND ACTIVITY OF SULPHATE-REDUCING AND METHANOGENIC BACTERIA IN SEDIMENTS OF TWO MEXICAN PACIFIC COAST TROPICAL COASTAL LAGOONS.
- Varona, F. C.**; Gutiérrez, F. M.; Esquivel, A. H.; Meave, M. C.; Torres, R. A.: SPATIO-TEMPORAL CHARACTERIZATION OF PHYSICAL AND CHEMICAL PARAMETERS IN A TROPICAL COASTAL LAGOON AND ITS EFFECT ON PHYTOPLANKTON DISTRIBUTION AND COMPOSITION.
- Vaz, A. C.**; Möller, O. O.; Castello, J. P.: ON THE RELATIONSHIP BETWEEN RIVER DISCHARGE AND SHRIMP PRODUCTION IN THE ESTUARY OF PATOS LAGOON. THE "EL NIÑO" EFFECT.
- Weitkamp, L. A.**: LIPID LEVELS DURING ESTUARINE AND EARLY OCEAN RESIDENCY: THE FORGOTTEN ROLE OF BUOYANCY IN SALMON
- Wilson, J. R.**; Dasey, M. W.: HARMFUL ALGAL BLOOMS IN A "PRISTINE" COASTAL LAKE IN EASTERN AUSTRALIA- UNDERSTANDING TEMPORAL AND SPATIAL VARIATIONS

Poster Session: Estuarine Comparisons

Location: Exhibit Hall 4E

Time: 5:30 PM – 6:30 PM

- Albert, E. M.**; Nicolau, B. A.; Tunnell Jr., J. W.: SUCCESSION DYNAMICS OF BENTHIC AND AVIAN COMMUNITIES IN RESPONSE TO EFFLUENT DIVERSION IN THE NUECES RIVER DELTA, CORPUS CHRISTI, TEXAS
- Auer, C. L.**: COASTAL OCEAN PROGRAM: OUR RESEARCH MAKING A DIFFERENCE FOR PACIFIC RIM ESTUARIES
- Barba, E.**: ENERGY FLUXES IN SEAGRASS ECOSYSTEM FROM A HYPER SALINITY COASTAL LAGOON, LAGUNA MADRE, TAMULIPAS, MEXICO.
- Bennett, R. J.**; Doering, P. H.; Rudnick, D. T.; Boyer, J. N.: NUTRIENT - PHYTOPLANKTON RELATIONSHIPS: A COMPARISON OF SOUTH FLORIDA'S ESTUARIES
- Bowen, J. L.**; Valielas, I.; Tomasky, G.: CONTRASTING NITROGEN RETENTION RATES IN WATERSHEDS: USING NITROGEN ISOTOPES TO COMPARE TEMPERATE AND TROPICAL ESTUARINE SYSTEMS
- Camacho-Ibar, V. F.**; Aveytua-Alcazar, L.; Cajal-Medrano, R.: NON-CONSERVATIVE DISSOLVED ORGANIC CARBON FLUXES IN SAN QUINTIN BAY, AN UPWELLING INFLUENCED HYPER SALINE COASTAL LAGOON IN MEXICO
- Corcoran, A.**; Dunsmuir, A.; Cebran, J.: EFFECTS OF ULTRAVIOLET-B RADIATION AND NUTRIENT ENRICHMENT ON BENTHIC MICROALGAE IN LAGOONAL EMBAYMENTS
- Elston, S. A.**; Blanton, J. O.; Seim, H. E.: SECONDARY CIRCULATION: WHAT IS IT AND HOW IS IT PARTITIONED?
- Fellows, K. A.**; Dunton, K. H.; Onuf, C. P.: RECREATIONAL FISHING AND BOATING EFFECTS ON SEAGRASS COMMUNITIES IN THE PADRE ISLAND NATIONAL SEASHORE



Environmental Protection Agency

Oceans and Coastal Protection Division

Ocean and coastal waters are an integral part of our daily lives, providing invaluable ecological and economic resources. Thousands of miles of coastline provide a wealth of recreational, environmental, and commercial benefits.

In the past several years, EPA has made significant progress in better defining and controlling coastal pollution problems, developing coastal research and monitoring plans, and initiating habitat restoration efforts.

However, many challenges remain. Future successes will come from good science, working closely with our partners and stakeholders, focusing our efforts using a watershed approach, and effectively applying our regulatory authorities.

Visit us at <http://www.epa.gov/owow/oceans>



EPA Ocean Survey Vessel Peter W. Anderson

NOAA/National Marine Fisheries Service Ad

Poster Session: Human Interactions

Location: Exhibit Hall 4E

Time: 5:30 PM – 6:30 PM

Allen, W.; Barba, K.; Lovelace, S.: SCIENCE FOR LOCAL DECISION-MAKERS THROUGH A NATIONAL NETWORK OF COASTAL TRAINING PROGRAMS

Awal, S.; Wescott, G.; John, J.: DEVELOPMENT OF A UNIVERSAL APPROACH TO ESTUARINE MANAGEMENT WITH SPECIAL REFERENCE TO AUSTRALIA

Batiuk, R. A.: NEXT GENERATION CHESAPEAKE BAY NUTRIENT AND SEDIMENT LOADING CAPS: ESTUARINE SCIENCE AS THE DRIVER

Chamberlain, R. H.; Doering, P. H.: A RESOURCE-BASED APPROACH TO DETERMINE PRELIMINARY WATER QUALITY TARGETS IN THE CALOOSA HATCHETEE ESTUARY, FLORIDA.

Coiro, L.; Cicchetti, G.; Bergen, B.; Nelson, W.; Rego, S.; Latimer, J.: USE OF SEDIMENT PROFILE IMAGERY TO ESTIMATE NEAR-BOTTOM DISSOLVED OXYGEN REGIMES

Coles, R. G.; McKenzie, L. J.; Campbell, S. J.; Short, F. T.: APPROACHES TO PROTECTING SEAGRASS MEADOWS IN NORTHEASTERN AUSTRALIA AND THE WESTERN PACIFIC.

Connor, M. S.: MANAGING MUNICIPAL DISCHARGES TO COASTAL WATERS IN THE UNITED STATES, JAPAN, AND HONG KONG

Copping, A. E.: BEYOND VOLUNTEER MONITORING: CITIZEN SCIENCE IN THE NORTHWEST STRAITS

Eimers, J. L.: USGS COOPERATIVE PROGRAM FOR HYDROLOGIC INVESTIGATIONS AT ESTUARIES ON LONG ISLAND, NEW YORK

Harvey, J. E.; Engle, V. D.; Macauley, J.; Harwell, L.; Smith, L. M.: IMPROVING ESTUARINE EVALUATION THROUGH OUTREACH AND TECHNOLOGY TRANSFER TO STATES, TRIBES AND OTHER PARTNERS: EPA'S NATIONAL COASTAL ASSESSMENT

Harwell, L. C.; Summers, J. K.: DATA MANAGEMENT – YOU CAN'T MONITOR WITHOUT IT

Herman, J. D.; Friedrichs, C. T.; Hershner, C. H.: USE OF LONG-TERM MONITORING DATA TO ESTIMATE SEDIMENT LOADS AND THE IMPORTANCE OF TIDAL PUMPING IN A MICROTIDAL ESTUARY, YORK RIVER, VA

Herring, G.; Stolen, E. D.; Collazo, J. A.; Epstein, M.: WETLANDS INITIATIVE AT MERRITT ISLAND NWR: VI. FORAGE AVAILABILITY AND AQUATIC BIRD DISTRIBUTION UNDER VARIOUS WETLAND MANAGEMENT SCHEMES.

Jones, R. C.: LONG-TERM TRENDS IN WATER QUALITY IN THE GUNSTON COVE REGION OF THE TIDAL FRESHWATER POTOMAC RIVER

Ko, J.; Day, J. W.; Templet, P. H.: EXPLORING CONFLICT RESOLUTIONS AMONG DIVERSE STAKEHOLDERS OVER ESTUARINE ECOSYSTEM RESTORATION: A CASE STUDY OF THE CAERNARVON RIVER DIVERSION, LOUISIANA

Lacouture, R. V.; Marshall, H. G.; Buchanan, C.; Johnson, J.; Hartsig, A. M.: A PHYTOPLANKTON INDEX OF BIOTIC INTEGRITY FOR CHESAPEAKE BAY.

Lamberson, J. O.; Nelson, W. G.; Lee II, H.: A PROBABILISTIC SURVEY OF SEDIMENT TOXICITY IN WEST COAST ESTUARIES

Lasi, M. A.; Tweedale, W. A.; Steward, J. S.; Beck, J. E.: COMPARING WATER QUALITY BETWEEN LONG-TERM MONITORING NETWORK SITES AND DEEP-EDGE-OF-SEAGRASS SITES IN THE INDIAN RIVER LAGOON, FLORIDA

Latimer, J.; Cicchetti, G.; Keith, D.; Rego, S.; Coiro, L.; Santos, A.; Dettmann, E.; Abdelrhman, M.; McKinney, R.; Thursby, G.; Pesch, C.; Bergen, B.; Nelson, W.; Charpentier, M.: DEVELOPMENT OF NITROGEN LOADING – RESPONSE RELATIONSHIPS FOR ESTUARINE WATERS USING AN EMPIRICAL COMPARATIVE SYSTEMS APPROACH

Macauley, J. M.; Alafita, H. V.; Summers, J. K.; Engle, V. D.; Craven, W. G.; Heitmuller, P. T.: ASSESSING THE ECOLOGICAL CONDITION OF VERACRUZ, MEXICO ESTUARIES.

MacPherson, T. A.; Cahoon, L. B.; Mallin, M. A.: BIOLOGICAL AND GEOLOGICAL INFLUENCES ON TIDAL CREEK OXYGEN UPTAKE.

McConnell, R.; Woithe, R.; Janicki, A.: ESTUARINE MONITORING FOR WATER SUPPLY DEVELOPMENT

Muller-Parker, G.: A COMMUNITY-BASED EDUCATION PROJECT: FLIP ABOUT THE INTERTIDAL ZONE

Nelson, W. G.; Lee, H.; Lamberson, J. O.: A PROBABILISTIC ASSESSMENT OF BENTHIC CONDITION OF WEST COAST ESTUARIES: RESULTS FROM THE NATIONAL COASTAL ASSESSMENT 1999-2000

Nicolau, B. A.; Nunez, A. X.; Childs, J. N.; Boothe, P. N.: THE COASTAL BEND BAYS PROJECT, A PROACTIVE APPROACH IN COASTAL MONITORING FOR SOUTH TEXAS

Pickard, S. R.; Bode, A.; Williams, D. F.; Traywick, J. D.: MARSCI UNDERGRADUATE JOURNAL GOES INTERNATIONAL: THE CURRENT INSTALLMENT OF AN INTER-INSTITUTIONAL PEER REVIEW BOARD

Ramírez toro, G. I.; Christian, R.; Minnigh, H. A.; Ramírez Ortiz, Z. G.; Hertler, H.: CHLOROPHYLL A AS A SURROGATE FOR NITROGEN & PHOSPHORUS IN WATER QUALITY STUDIES IN LA PARGUERA, PR

Sarason, C. P.; Stahr, F. R.; Kawase, M.: CREATING PARTNERHIPS BETWEEN RESEARCHERS, TEACHERS AND STUDENTS: COMPARING MODEL OUTPUT TO DATA COLLECTED BY FIELD TRIPS ON PUGET SOUND.

Silliman, B. R.; Bertness, M. D.: A TROPHIC CASCADE REGULATES SALT MARSH PRIMARY PRODUCTION: WILL OVER-HARVESTING OF BLUE CRABS TRIGGER MASSIVE DIE-OFF OF SOUTHERN SALT MARSHES?

Smail, P. W.: MOUNT STORM: A CASE STUDY OF STATIONARY SOURCE ANTHROPOGENIC ATMOSPHERIC INPUTS OF NITROGEN TO CHESAPEAKE BAY

Steward, J. S.; Lasi, M. A.: WATER QUALITY TARGETS FOR THE INDIAN RIVER LAGOON: METHODS AND PRELIMINARY RESULTS

Winn, W. D.; Stahr, F.; Sarason, C.; Fruland, R.; Oppenheimer, P.; Lee, Y.: LEARNING ABOUT PUGET SOUND USING VIRTUAL REALITY TECHNOLOGY.

Yanez-Arancibia, L. A.: INTEGRATED COASTAL MANAGEMENT IN THE GULF OF MEXICO LARGE MARINE ECOSYSTEM

TUESDAY, SEPTEMBER 16, 2003

CS-01: Integrated Coastal Management, Science and Policy

Chair(s): J. L. Eimers, Guy Fontenelle

Location: 3A

8:00 AM	Beck, M. W. ; Bortman, M.; Marsh, T.; Reisewitz, S.; Doctor, K.: APPLYING A NEW STRATEGY FOR MARINE CONSERVATION: THE LEASE, OWNERSHIP, AND RESTORATION OF SUBMERGED LANDS
8:15 AM	Krahforst, C. ; Keeley, D.; Bricker, S.: A REGIONAL APPROACH TO MANAGING NUTRIENT OVER-ENRICHMENT IN ESTUARIES OF THE ATLANTIC NORTHWEST
8:30 AM	Corrozi, M. B. : INNOVATIVE STORMWATER DEMONSTRATION PROJECTS IN THE CHESAPEAKE BAY WATERSHED
8:45 AM	Fontenelle, G. R. ; Radureau, A.: BIVALVE AQUACULTURE AS KEY STAKEHOLDER IN OPEN ACCESS SITUATIONS IN COASTAL BAYS OR ESTUARIES: COMPARISON OF BAY OF MONT ST MICHEL (FRANCE) & WILLAPA BAY (USA)
9:00 AM	Thompson, M. J. ; West, R. J.: WHERE ESTUARY SCIENCE MEETS ESTUARY MANAGEMENT: THE ROLE OF SCIENTIFIC INFORMATION IN ESTUARY MANAGEMENT IN SOUTH-EASTERN AUSTRALIA
9:15 AM	Beever, L. B. ; Beever, J. W.: COORDINATING SCIENCE AND RESTORATION NEEDS FOR SOUTHWEST FLORIDA ESTUARIES Affected BY THE COMPREHENSIVE EVERGLADES RESTORATION PLAN
9:30 AM	deFur, P. L. : SCIENTISTS HAVE A CRITICAL ROLE WORKING WITH CITIZEN ORGANIZATIONS IN COASTAL RESTORATION AND CLEAN-UP PROGRAMS

CS-02: Water Quality and Contaminants

Chair(s): Kevin Summers

Location: 4C4

8:00 AM	Cloern, J. E. ; Luoma, S. N.: THE MARRIAGE OF RESEARCH AND MONITORING: LESSONS FROM SAN FRANCISCO BAY
8:15 AM	Stewart, A. R. ; Luoma, S. N.; Hieb, K. A.: RESOLVING CONTAMINANT VARIABILITY IN THE SAN FRANCISCO BAY FOOD WEB USING ESTUARINE GRADIENTS IN STABLE ISOTOPES
8:30 AM	Cordova, A. L. ; Higashi, R. M.; Green, P. G.; Scow, K. M.: MICROBIAL COMMUNITY CHARACTERIZATION AND POLLUTANT GRADIENTS
8:45 AM	Cohen, R. A. ; Fong, P.: USING MACROALGAE AS AN INDICATOR OF TERRESTRIAL INFLUENCES IN A SOUTHERN CALIFORNIA ESTUARY.
9:00 AM	Aranda-Cirerol, N.; Herrera-Silveira, J. A. ; Comin, F. A.: EUTROPHICATION AND WATER QUALITY IN THE COASTAL ZONE OF YUCATAN PENINSULA.
9:15 AM	Apitz, S. E. ; Chadwick, D. B.; Germano, J.; Geiskes, J.; Maa, G.; Montgomery, M. T.; Paulsen, R.; Smith, C.; Ziebis, W.: INTEGRATED RESULTS OF THE PATHWAY RANKING FOR IN-PLACE SEDIMENT MANAGEMENT (PRISM) PROGRAM: CRITICAL ASSESSMENT

9:30 AM **Summers, J. K.**: SELECTING, DEVELOPING, AND MAINTAINING ECOLOGICAL INDICATORS OF ESTUARINE CONDITION: THE NATIONAL COASTAL ASSESSMENT EXPERIENCE

CS-03: Non-Indigenous Species Impacts

Chair(s): Sally Hacker

Location: 4C4

10:15 AM	Tyler, A. C. ; Grosholz, E. D.; Civille, J. C.; Lambrinos, J. G.: <i>SPARTINA ALTERNIFLORA</i> INVASION OF PACIFIC ESTUARIES: CHANGES IN CARBON AND NITROGEN CYCLING
10:30 AM	Hacker, S. D. ; Reeder, T. G.; Dethier, M. N.: LINKING CONTROL RECORDS WITH ECOLOGICAL DATA TO IMPROVE REMOVAL AND RESTORATION EFFICACY OF HABITATS INVADED BY ENGLISH CORDGRASS IN THE PACIFIC NORTHWEST
10:45 AM	Dethier, M. N. ; Hacker, S. D.: DIFFERENTIAL SEED GERMINATION AND GROWTH AFFECT THE ABILITY OF <i>SPARTINA ANGLICA</i> TO INVADE DIFFERENT HABITAT TYPES IN PUGET SOUND, WASHINGTON
11:00 AM	Patten, K. D. : EFFICACY AND RESTORATION VALUE OF MECHANICAL AND CHEMICAL EFFORTS TO CONTROL <i>SPARTINA</i> IN WILLAPA BAY
11:15 AM	Trimble, A. C. ; Ruesink, J. L.; Dumbaugh, B. R.: WHAT PREVENTS RECOVERY OF NATIVE OYSTERS (<i>OSTREOLA CONCHAPHILA</i>) IN WILLAPA BAY, WASHINGTON?
11:30 AM	Harvey, C. J. ; Feist, B. E.; Ruesink, J. L.; Trimble, A. C.; McCoy, L. M.: INFLUENCE OF EXOTIC <i>SPARTINA ALTERNIFLORA</i> ON ESTUARINE FOOD WEBS OF THE PACIFIC NORTHWEST. PART I: SYSTEM-SCALE INFLUENCE ON OYSTER DIETS
12:15 PM	Feist, B. E. ; Harvey, C. J.; Ruesink, J. L.; Trimble, A. C.; Richardson, N.: INFLUENCE OF EXOTIC <i>SPARTINA ALTERNIFLORA</i> ON ESTUARINE FOOD WEBS OF THE PACIFIC NORTHWEST. PART II: SPATIO-TEMPORAL PATTERNS OF OYSTER GROWTH AND DIET
12:30 PM	Hellquist, C. E. ; Nelson, S.; Rhodes, B.; Lee, R. W.; Black, R. A.: STABLE ISOTOPIC EVIDENCE FOR TROPHIC INTERACTIONS ASSOCIATED WITH <i>SPARTINA ANGLICA</i> IN NORTH PUGET SOUND, WA, USA
12:45 PM	Neira, C. ; Levin, L. A.; Grosholz, E.; Mendoza, G.: RESPONSE OF BENTHIC MACROFAUNAL COMMUNITY TO INVASION BY <i>SPARTINA (FOLIOSA X ALTERNIFLORA)</i> HYBRID IN SAN FRANCISCO BAY
1:00 PM	Freeman, A. S. : INDUCIBLE DEFENSES OF BLUE MUSSELS IN RESPONSE TO TWO INVASIVE CRAB PREDATORS
1:15 PM	Whitlow, W. L. : NATIVE CLAM PROTECTION AND THE COSTS TO GROWTH AND SURVIVAL
1:30 PM	Gust, N. ; Inglis, G.; Smith, P.; Webber, R.: ESTABLISHING THE IDENTITY, STATUS AND RISK POSED BY AN INTRODUCED PORTUNID CRAB IN NEW ZEALAND
1:45 PM	Connelly, W. J. ; Keough, J. R.; Austin, H. M.: THE ECOLOGICAL EFFECT OF NON-INDIGENOUS BLUE CATFISH IN VIRGINIA TRIBUTARIES OF THE CHESAPEAKE BAY: A PRELIMINARY AND INDIRECT INVESTIGATION
2:30 PM	Trexler, J. C. ; Lorenz, J. J.; Loftus, W. F.: MONITORING FISH INVASIONS AND THEIR IMPACTS IN SOUTHERN FLORIDA: CAN WE PREDICT THE RISKS?

4:45 PM	Able, K. W.; Hagan, S. M. ; Brown, S. A.: IMPACTS OF INVASIVE <i>PHRAGMITES</i> ON SALT MARSH FISH POPULATIONS: MOVEMENTS AND RESIDENCY OF <i>FUNDULUS</i> spp.	4:45 PM	Mikita, K. A. ; Barnes, J.; Boynton, W. R.: AN INVESTIGATION OF FACTORS INFLUENCING THE DYNAMICS OF THE SPRING PHYTOPLANKTON BLOOM IN THE PATUXENT RIVER ESTUARY, MARYLAND
5:00 PM	McGlynn, C. A. : A STUDY OF THE EFFECTS OF INVASIVE PLANTS ON THE SMALL MAMMALS AND BIRDS OF HUDSON RIVER FRESHWATER TIDAL WETLANDS	5:00 PM	Luther, G. W. ; Glazer, B. T.; Trouwborst, R. E.; Nuzzio, D. B.; Lewis, B. L.: <i>IN SITU</i> VOLTAMMETRY – A NOVEL TOOL FOR STUDYING ESTUARINE REDOX DYNAMICS
5:15 PM	Gallagher, J. L. ; Seliskar, D. M.: USING REED (<i>PHRAGMITES</i>) DRYING BEDS FOR WASTEWATER TREATMENT WITHOUT INVASION TO LOCAL WETLANDS	5:15 PM	Abboud, E. R.; Blake, D. A.; Meffert, D. J. : BIOSENSORS IN ESTUARIES: A RAPID, SENSITIVE IMMUNOSENSOR REPLACEMENT FOR COLIFORM MEASUREMENT
5:30 PM	Osgood, D. T. ; Yozzo, D. J.; Harms, L.; Salak, E.; McElrone, B.; Long, M.: INFLUENCE OF A HYDROGEOMORPHIC GRADIENT WITHIN <i>PHRAGMITES AUSTRALIS</i> (COMMON REED) ON EARLY LIFE HISTORY STAGES OF RESIDENT NEKTON.	5:30 PM	Hanes, D. R. ; Ross, S. W.: DEVELOPING A REAL TIME DATA DELIVERY AND MANAGEMENT SYSTEM FOR THE NATIONAL ESTUARINE RESEARCH RESERVES
5:45 PM	Bushaw-Newton, K. L. ; Doaty, S.; Kreeger, D. A.; Velinsky, D. J.: BACTERIAL UTILIZATION OF DISSOLVED ORGANIC MATTER DERIVED FROM <i>SPARTINA ALTERNIFLORA</i> AND <i>PHRAGMITES AUSTRALIS</i>	5:45 PM	Swanson, C. ; Ward, M.; Spaulding, M.: COASTMAP: A GLOBALLY RELOCATABLE NOWCAST / FORECAST SYSTEM

CS-04: New Technologies and Observatories for Monitoring and Studying Coastal Systems

Chair(s): Antonio M. Baptista

Location: 2B

2:15 PM	Baptista, A. M. ; Seaton, C.; Burla, M.; Zhang, Y.; Chawla, A.; Wilkin, M.: USING COASTAL OBSERVATORIES TO UNDERSTAND LONG-TERM PHYSICAL CHANGE IN ESTUARIES: A CASE STUDY IN THE COLUMBIA RIVER	2:15 PM	Zieman, J. C. ; Fourquean, J.; Frankovich, T.: RECENT AND HISTORICAL CHANGES IN SEAGRASS BEDS IN SOUTHERN FLORIDA
2:30 PM	Civille, J. C. ; Strong, D. R.: LIDAR AND GEOSPATIAL ANALYSES: POPULATION ECOLOGY AND INVASION DYNAMICS OF <i>SPARTINA ALTERNIFLORA</i> IN WILLAPA BAY, WA	2:30 PM	Madden, C. J. ; Kelly, S. P.; Donovan, C.; Rudnick, D.: COMPONENTS OF ECOSYSTEM METABOLISM AT THE EVERGLADES-FLORIDA BAY ECOTONE
2:45 PM	Bornhold, B. D.; Burd, B.; Harper, J. R. : EVALUATION OF TOWED VIDEO IMAGERY FOR EELGRASS MAPPING AND MONITORING	2:45 PM	van Keulen, M. ; Borowitzka, M. A.: SEAGRASS DENSITY AND MEADOW HYDRODYNAMICS
3:00 PM	Seaman, R. E. ; Finkbeiner, M. A.; Cole, K. B.; Carter, D. B.: USING ACOUSTIC TECHNOLOGIES TO MAP AND MANAGE MACROALGAE IN A SHALLOW, TURBID ESTUARY IN DELAWARE	3:00 PM	Yarbro, L. A. ; Carlson, P. R.: LIGHT ATTENUATION BY EPIPHYTE LOADING ON <i>THALASSIA</i> BLADES IN THREE ESTUARINE REGIONS OF FLORIDA
3:15 PM	Finkbeiner, M. A. ; Stevenson, B. R.; Anderson, B.; Yianopoulos, M.; Coen, L.; Martin, G.; Cullen, K.: HIGH-RESOLUTION MULTI-SPECTRAL REMOTE SENSING FOR INTERTIDAL OYSTER REEF MAPPING AND CHARACTERIZATION IN COASTAL SOUTH CAROLINA	3:15 PM	Tanner, C. E. : GROWING EELGRASS (<i>ZOSTERA MARINA</i>) FROM SEEDS IN LAND-BASED CULTURE SYSTEMS FOR USE IN RESTORATION PROJECTS
3:30 PM	Conrads, P. A. ; Roehl, E. A.: DETERMINING TIDAL WATER LEVELS AND SALINITY RESPONSES TO CHANGING FRESHWATER INFLOWS USING ARTIFICIAL NEURAL NETWORKS MODELS	3:30 PM	Neckles, H. A. ; Kopp, B. S.; Nielsen, M. G.; Guntenspergen, G. R.: AUTOTROPHIC RESPONSES TO NUTRIENT LOADINGS IN A <i>RUPPIA</i> -DOMINATED ESTUARY: CURRENT STATUS AND FUTURE PROJECTIONS
3:45 PM	Buzzelli, C. P. ; Ramus, J.; Paerl, H. W.: USE OF FERRY-BASED SAMPLING TO CHARACTERIZE SURFACE WATER QUALITY PATTERNS IN A LARGE LAGOONAL ESTUARY	3:45 PM	Keats, R. A. ; Osher, L. J.; Neckles, H. A.: THE EFFECT OF NITROGEN LOADING ON AN ESTUARINE MACROINVERTEBRATE COMMUNITY: A STABLE ISOTOPE APPROACH
4:30 PM	Kempton, J. W. ; Williams, P. R.; Wilde, S. B.; Lewitus, A. J.: REAL-TIME PCR DETECTION OF SELECTED DINOPHYCEAE AND RAPHIDOPHYCEAE SPECIES FROM SOUTH CAROLINA TIDAL CREEKS AND BRACKISH RETENTION PONDS	4:30 PM	Burdige, D. J. ; Zimmerman, R. C.; Bodensteiner, L.; Hu, X.: SEDIMENT-SEAGRASS INTERACTIONS AND SEDIMENT CARBONATE DISSOLUTION: ECOLOGICAL AND GEOCHEMICAL CONSIDERATIONS
		4:45 PM	Linker, L. C. ; Cerco, C. F.; Wang, P.; Shenk, G. W.; Batiuk, R. A.: CHESAPEAKE SUBMERGED AQUATIC VEGETATION RESPONSE TO SEDIMENT LOADS
		5:00 PM	Uhrin, A. V. ; Fonseca, M. S.; DiDomenico, G. P.: EFFECT OF LOBSTER TRAPS ON SEAGRASS OF THE FLORIDA KEYS NATIONAL MARINE SANCTUARY (FKNMS): DAMAGE ASSESSMENT AND EVALUATION OF RECOVERY

5:15 PM	Smith, K. N. ; Mezich, R. R.: WARM WATER AND BIG APPETITES: THE EFFECTS OF MANATEE GRAZING IN A FLORIDA SPRING SYSTEM	SPS-09: Elevation Change in Coastal Wetlands: Surface and Subsurface Processes
5:30 PM	Olesen, B. ; Marbà, N.; Duarte, C. M.; Savela, R. S.; Fortes, M. D.: RECOVERY OF PHILIPPINE MIXED-SPECIES SEAGRASS MEADOW: THE ROLE OF CONTRASTING REPRODUCTIVE STRATEGIES	Chair(s): Donald R. Cahoon, Karen L. McKee
5:45 PM	Whitfield, P. E. ; Kenworthy, W. J.; Durako, M. J.; Hammerstrom, K. K.; Merello, M.: THE ROLE OF <i>THALASSIA TESTUDINUM</i> SEEDLINGS IN THE RECOVERY OF PHYSICALLY DISTURBED SEAGRASS BEDS	Location: 2B
		8:00 AM Cahoon, D. R. : WETLAND SEDIMENT ELEVATION DYNAMICS: CURRENT AND FUTURE RESEARCH DIRECTIONS
		8:15 AM Christian, R. R. ; Blum, L. K.; Brinson, M. M.: CONTRIBUTIONS TO AND CONSEQUENCES OF LOCAL ELEVATION CHANGE TO ECOSYSTEM FUNCTIONING IN THREE COASTAL MARSH ENVIRONMENTS
		8:30 AM Guntenspergen, G. R. ; Cahoon, D. R.; Lynch, J. C.; Larsen, C. E.: ELEVATION MONITORING AND WETLAND LOSS AT BLACKWATER NATIONAL WILDLIFE REFUGE, MARYLAND, USA.
		8:45 AM Rogers, K. ; Saintilan, N.: INVESTIGATIONS OF MANGROVE INCURSIONS INTO SALTMARSH IN SOUTHEASTERN AUSTRALIA.
		9:00 AM Erwin, R. M. ; Cahoon, D. R.; Prosser, D. J.; Sanders, G. M.; Roman, C. T.: SEDIMENT DYNAMICS IN VEGETATED <i>SPARTINA</i> MARSHES VERSUS UNVEGETATED TIDAL PONDS ALONG THE MID-ATLANTIC COAST, USA: IMPLICATIONS TO WATERBIRDS
		9:15 AM McKee, K. L. ; Cahoon, D. R.; Feller, I. C.: SURFACE AND SUBSURFACE CONTROLS ON ELEVATION CHANGE AND HABITAT STABILITY OF A BIOGENIC MANGROVE ECOSYSTEM IN BELIZE
		9:30 AM Megonigal, J. P. ; Marsh, A. S.; Drake, B. G.: THE EFFECTS OF ELEVATED CO ₂ ON SUBSURFACE PROCESSES IN A BRACKISH MARSH
		10:15 AM Twilley, R. R. ; Rivera-Monroy, V. H.; Cormier, N.; Casteneda, E.; Cahoon, D.: ACCRETION RATES AND SOIL DYNAMICS AMONG MANGROVE WETLANDS IN DIFFERENT ENVIRONMENTAL SETTINGS: TESTING ASSUMPTIONS WITH THE NUMAN MODEL
		10:30 AM Chmura, G. L. ; Sundberg, K. L.; Boumans, R. M.; Paquette, C. H.: CHANGES IN SALTMARSH SURFACE ELEVATION DUE TO VARIABILITY IN EVAPOTRANSPIRATION AND TIDAL FLOODING
		10:45 AM Smith III, T. J. ; Cahoon, D. R.: SEDIMENT SURFACE ELEVATION IN THE COASTAL EVERGLADES IN RELATION TO GROUND AND SURFACE WATER STAGE VARIATION
		11:00 AM Roman, C. T. ; Cahoon, D. R.; King, J. W.; Gwilliam, E.; Lynch, J.: ELEVATION AND SEDIMENT DYNAMICS OF HYDROLOGICALLY ALTERED SALT MARSHES AND RESPONSES TO TIDAL RESTORATION
		11:15 AM Ball, D. A. ; Rybczyk, J. M.: MONITORING THE EFFECTS OF <i>SPARTINA ALTERNIFLORA</i> ERADICATION ON SEDIMENT DYNAMICS IN TWO PACIFIC NORTHWEST ESTUARIES
		11:30 AM Temmerman, S. ; Govers, G.; Meire, P.; Wartel, S.: SIMULATING SEDIMENT DEPOSITION AND ELEVATION CHANGES IN TIDAL MARSHES USING A 2-DIMENSIONAL SPATIALLY DISTRIBUTED MODELING APPROACH

SPS-10: Estuarine Hydrodynamics Lessons for Everyone

Chair(s): Lisa V. Lucas

Location: 3B

8:00 AM	Friedrichs, C. T. : TIDES IN RIVER VALLEY ESTUARIES
8:15 AM	Burau, J. R. : INTERTIDAL TIMESCALE TRANSPORT IN A TIDALLY INFLUENCED NETWORK OF CHANNELS - EXAMPLES FROM THE SACRAMENTO/SAN JOAQUIN DELTA, CALIFORNIA, USA
8:30 AM	Sanay, R. ; Valle-Levinson, A.: WIND-DRIVEN CIRCULATION IN NON-HOMOGENEOUS ROTATING ESTUARIES
8:45 AM	Brubaker, J. M. : ASSESSING THE ROLE OF WIND STIRRING IN ESTUARIES
9:00 AM	Taft, J. L. : TEMPERATURE AS A VERTICAL TRACER IN ESTUARIES
9:15 AM	Marshall, F.; Nuttle, W. K. : THE SPECTRAL RESPONSE OF FLORIDA BAY SALINITY TO RAINFALL
9:30 AM	Sereno, D. M. ; Stacey, M. T.: CIRCULATION AND EXCHANGE IN SHALLOW, SUBTIDAL HABITATS OF THE SACRAMENTO-SAN JOAQUIN DELTA
10:15 AM	Deacutis, C. ; Murray, D.; Prell, W.; Korhun, L.; Saarman, E.; Kester, D.: INTRA AND INTERANNUAL VARIABILITY IN THE EXTENT OF HYPOXIC WATERS IN UPPER NARRAGANSETT BAY , RHODE ISLAND
10:30 AM	Lucas, L. V. : HIGH FREQUENCY PERIODIC PHYSICAL PROCESSES CAN HAVE LONG-TERM EFFECTS ON WATER QUALITY
10:45 AM	Sheldon, J. E. ; Alber, M.: THE EQUIVALENCE OF ESTUARINE TURNOVER TIMES CALCULATED USING FRACTION OF FRESHWATER AND TIDAL PRISM MODELS
11:00 AM	Monsen, N. E. : TRANSPORT TIME SCALES: WHAT DO THEY REALLY MEAN?
11:15 AM	Koseff, J. R. : BEYOND THE REYNOLDS NUMBER: BRIDGING THE SPATIAL AND TEMPORAL GAP BETWEEN PHYSICAL AND BIOLOGICAL PROCESSES USING TIME-SCALES AND DIMENSIONLESS NUMBERS

SPS-11: Ecological Importance of Detrital and Algal Resources to Estuarine Food Webs: A Cross-System Comparison

Chair(s): Bill Sobczak, Peter Raymond

Location: 4C3

8:00 AM	Sobczak, W. V. ; Limburg, K. E.: ROLE OF DETRITUS IN SUPPORTING ESTUARINE AND RIVERINE FOOD WEBS: CROSS-SYSTEM COMPARISON
8:15 AM	Raymond, P. A. ; Hopkinson, C. S.: ESTUARINE METABOLISM IN THE PLUM ISLAND SOUND
8:30 AM	McCallister, S. L. ; Bauer, J. E.; Canuel, E. A.; Cherrier, J. E.; Ducklow, H. W.: COMPARISON OF THE SOURCES AND REACTIVITY OF ORGANIC MATTER WITHIN A TEMPERATE ESTUARY USING A MULTI-TRACER APPROACH
8:45 AM	Findlay, S. ; Kirchman, D.; Fischer, D.: CHANGES IN BACTERIAL ACTIVITY AND COMMUNITY STRUCTURE IN RESPONSE TO VARIATION IN DOM IN THE HUDSON RIVER, NY.

9:00 AM	Dailey, S. K. ; Boyer, J. N.: POTENTIAL EFFECTS OF DOM SUBSIDY FROM THE EVERGLADES-MANGROVE TRANSITION ON MICROBIAL ACTIVITY IN FLORIDA BAY
9:15 AM	Murrell, M. C. ; Hagy, J. D.; Greene, R. M.; James, J. B.: PHYTOPLANKTON- AND DETRITUS-BASED FOOD WEBS IN GULF OF MEXICO ESTUARIES: LESSONS FROM PENSACOLA BAY, FL, USA
9:30 AM	Jassby, A. D. ; Cloern, J. E.; Muller-Solger, A. B.; Sobczak, W. V.: PHYTOPLANKTON IN THE SACRAMENTO-SAN JOAQUIN RIVER DELTA: TROPHIC ROLE AND LONG-TERM CHANGES
10:15 AM	Mueller-Solger, A. B. ; Mueller-Navarra, D. C.; Jassby, A. D.: ESTUARINE FOOD FOR THOUGHT
10:30 AM	Pilon, V. L. ; Canuel, E. A.: BIOCHEMICAL ASSESSMENT OF PARTICULATE ORGANIC CARBON IN THE SACRAMENTO-SAN JOAQUIN RIVER DELTA – IMPLICATIONS FOR HABITAT REHABILITATION AND FOOD WEB DYNAMICS
10:45 AM	Grimaldo, L. F. ; Kimmerer, W.: STABLE ISOTOPE ANALYSIS OF FOOD WEBS IN THE SACRAMENTO-SAN JOAQUIN DELTA: IMPLICATIONS FOR RESTORATION
11:00 AM	Duque, G. ; Baltz, D. M.; Fry, B.: FOOD SOURCES AND TROPHIC PATHWAYS OF ESTUARINE FISHES AND INVERTEBRATES IN A LOUISIANA ESTUARY: CONSIDERATIONS BASED ON STABLE ISOTOPE ANALYSES
11:15 AM	Thoresen, M. ; Alber, M.: BENTHIC DIATOMS IN SESTON AND EASTERN OYSTERS: PATTERNS OF SPATIAL AND SEASONAL ABUNDANCE IN A TIDAL INLET (DUPLIN RIVER, GEORGIA, USA).
11:30 AM	Duarte, C. M. ; Middelburg, J.; Gattuso, J. P.: RESPIRATION IN THE COASTAL OCEAN: ORIGIN AND FATE OF ORGANIC MATTER

SPS-12: Coastal Lagoons

Chair(s): Alice Newton

Location: 2A

2:15 PM	Newton, A. : COASTAL LAGOONS, A 21ST CENTURY PERSPECTIVE
2:30 PM	Mudge, S. M. : SEWAGE AND FLUSHING - THE DYNAMICS OF NUTRIENTS AND ORGANIC MATTER IN A COASTAL LAGOON
2:45 PM	Bricker, S. B.; Ferreira, J. G. ; Simas, T. C.; Nobre, A. M.: UNDERSTANDING AND MANAGING EUTROPHICATION IN COASTAL LAGOONS
3:00 PM	Gutierrez de Velasco, G. ; Winant, C.: SALT EXCHANGE RATE IN A WELL-MIXED INVERSE ESTUARY
3:15 PM	Arreola Lizarraga, J. A. : VARIATIONS IN NUTRIENTS, CHLOROPHYLL A, AND PRIMARY AQUATIC PRODUCTION IN A SEMIARID COASTAL LAGOON
3:30 PM	Kamer, K. ; Sutula, M.; Briscoe, E.: SEASONAL PATTERNS IN NUTRIENTS AND PRIMARY PRODUCTIVITY IN MALIBU LAGOON: A CASE STUDY FOR SOUTHERN CALIFORNIA SEASONAL LAGOONS
3:45 PM	Tomasky, G. ; Valielas, I.; Olson, R. J.: RESPONSE OF PHYTOPLANKTON SIZE STRUCTURE TO LAND-DERIVED NITROGEN LOAD

4:30 PM	McGlathery, K. J. ; Tyler, A. C.; Thomsen, M.; Berg, P.: PRIMARY PRODUCER DOMINANCE AFFECTS NITROGEN RETENTION IN SHALLOW COASTAL ECOSYSTEMS	5:30 PM	Chant, R. J. ; Geyer, W. R.; Houghton, R. W.; Lerczak, J. A.; Hunter, E. J.: LAGRANGIAN OBSERVATIONS OF TIDALLY ASYMMETRIC MIXING IN A STRATIFIED ESTUARY.
4:45 PM	Pospelova, V. ; Chmura, G. L.: IMPLICATIONS OF INLET ALTERATIONS OF NEW ENGLAND BACK-BARRIER LAGOONS ON DINOFLAGELLATE POPULATIONS: EVIDENCE FROM DINOFLAGELLATE CYSTS.	5:45 PM	O'Donnell, J. : FRONTAL SCALES IN THE COASTAL OCEAN AND LABORATORY
5:00 PM	Sutula, M. A. ; Kamer, K.; Cable, J. E.; Briscoe, E.: SEASONAL NUTRIENT DEPOSITION AND DIAGENESIS IN SEDIMENTS OF MALIBU LAGOON, SOUTHERN CALIFORNIA, USA		
5:15 PM	Lawson, S. E. ; McGlathery, K. J.; Wiberg, P.: EFFECTS OF SEDIMENT RESUSPENSION ON LIGHT AVAILABILITY AND IMPLICATIONS FOR PRIMARY PRODUCTIVITY IN HOG ISLAND BAY, VIRGINIA		
5:30 PM	Rosinski, J. L. ; McGlathery, K. J.: IMPACT OF MACROALGAL MATS ON PER CAPITA GRAZING RATES IN A TEMPERATE COASTAL LAGOON		
5:45 PM	Bush, R. A. : WINTER STEELHEAD (<i>ONCORHYNCHUS MYKISS</i>) REARING AND RESIDENCE PATTERNS IN A CALIFORNIA COASTAL LAGOON		
SPS-13: Estuarine Turbulence: Observations, Mechanisms and Effects			
Chair(s):	Stephen Monismith W. Rocky Geyer Parker MacCready		
Location:	3B		
2:15 PM	Simpson, J. H. : MEASURING AND MODELLING TURBULENCE IN TIDAL AND DENSITY-DRIVEN FLOWS	2:15 PM	Miller, T. J. : SPATIAL CONNECTIVITY AND BLUE CRAB POPULATION DYNAMICS
2:45 PM	Peters, H. : SPATIAL VARIATIONS OF TURBULENT MIXING IN THE HUDSON RIVER ESTUARY	2:30 PM	Levin, P. S. ; Zabel, R. W.; Stunz, G. W.: HABITAT TRIAGE FOR TRANSIENT ESTUARINE FISHES
3:00 PM	Alford, M. H. ; Gregg, M. C.: OBSERVATIONS OF MIXING AND 3-D EVOLUTION OF A FJORD WATERMASS	2:45 PM	Niklitschek, E. J. ; Secor, D. H.: SPATIALLY EXPLICIT BIOENERGETIC MODELS OF HABITAT VALUE IN ESTUARIES
3:15 PM	Fong, D. A. ; Monismith, S. G.; Burau, J. R.; Stacey, M. T.: SECONDARY CURRENTS AND TURBULENT MIXING IN A CURVED ESTUARINE CHANNEL	3:00 PM	Hare, J. A. : ESTUARINE CONNECTIVITY: LESSONS AND QUESTIONS FROM EXPATRIATES
3:30 PM	Rippeth, T. P. ; Simpson, J. H.; Arneborg, L.; Inall, M. E.; Palmer, M.; Janzen, C. D.; Liljebladh, B.: TURBULENT MIXING AND THE VERTICAL CIRCULATION IN FJORDIC ESTUARIES	3:15 PM	Holt, S. A. ; Brown, C. A.: MODELING THE IMMIGRATION AND SETTLEMENT OF RED DRUM LARVAE TO ESTUARINE NURSERY SITES
3:45 PM	MacCready, P. ; Pawlak, G.; Edwards, K. A.; McCabe, R.; Moum, J.: OBSERVATION AND MODELING OF TURBULENCE GENERATED BY TIDAL FLOW AT A HEADLAND	3:30 PM	Limburg, K. E. : FISHES AND INVERTEBRATES AS NUTRIENT DELIVERY SYSTEMS IN ESTUARIES
4:30 PM	Lerczak, J. A. ; Geyer, W. R.; Chant, R. J.: SECONDARY CIRCULATION, MOMENTUM BUDGETS, AND MIXING IN A STRAIGHT, PARTIALLY-STRATIFIED ESTUARY	3:45 PM	Herzka, S. Z. : SHIFTS IN FOOD-WEB DEPENDENCIES IN ESTUARINE FISHES AS TRACERS OF HABITAT CHANGES
4:45 PM	Lacy, J. R. ; Stacey, M. T.; Burau, J. R.; Monismith, S. G.: THE INTERACTION OF LATERAL BAROCLINIC FORCING AND TURBULENCE IN AN ESTUARINE CHANNEL	4:30 PM	Haertel, S. S. ; Allen, D. M.; Dame, R. F.; Bushek, D.: NUTRIENT PRODUCTION BY FISHES, SHRIMPS AND OYSTERS IN INTERTIDAL SALT-MARSH CREEKS
5:00 PM	Stacey, M. T. : TURBULENT MIXING, KINETIC ENERGY AND LENGTHSCALES IN A PERIODICALLY STRATIFIED ESTUARINE CHANNEL	4:45 PM	MacAvoy, S. E. ; McIninch, S. P.; Garman, G. C.; Macko, S. A.: ANADROMOUS FISH AS MARINE NUTRIENT VECTORS TO THE TIDAL FRESHWATER FISH COMMUNITIES OF VIRGINIA: EVIDENCE FROM BULK AND COMPOUND SPECIFIC ISOTOPE ANALYSIS.
5:15 PM	Seim, H. E. ; Luettich, R.; Stearns, L. P.: ADCP-BASED VERTICAL EDDY VISCOSITY ESTIMATES IN A TIDELESS ESTUARY - EXPLORING MINIMUM MEASURABLE LIMITS	5:00 PM	Appeldoorn, R. S. ; Recksiek, C. W.; Hill, R. L.: JUVENILE & ADULT HABITAT SHIFTS IN CARIBBEAN CORAL REEF ECOSYSTEMS
		5:15 PM	McCormick-Ray, M. G. : CONNECTIVITIES AMONG OYSTERS, THEIR REEF SYSTEM, AND THE HISTORIC CHESAPEAKE BAY ECOSYSTEM

5:30 PM	Duffy, E. J. ; Beauchamp, D. A.; Buckley, R. M.: DISTRIBUTION AND TROPHIC INTERACTIONS OF JUVENILE SALMON IN PUGET SOUND	2:15 PM	Deegan, L. A. ; Hughes, J. E.: HOW TRANSFERABLE TO OTHER ECOREGIONS IS AN ESTUARINE INDEX OF BIOTIC INTEGRITY DEVELOPED FOR EELGRASS COMMUNITIES IN NEW ENGLAND?
5:45 PM	Krentz, L. K. ; Jones, K. K.; Cornwell, T. J.; Bottom, D. L.; Fleming, I. A.; Li, H. W.: HABITAT USE AND MOVEMENT OF SEA-RUN CUTTHROAT TROUT IN THE SALMON RIVER ESTUARY	2:30 PM	Locke, A. ; Klassen, G. J.; Ellis, K.; Bremner, A.; Hanson, J. M.: TRANSFERABILITY OF IBI AMONG ESTUARIES OF THE SOUTHERN GULF OF ST LAWRENCE: LESSONS FROM ISLAND BIOGEOGRAPHY
SYM-03: Understanding the Biotic Integrity of Estuarine Habitats			
Chair(s): Dail W. Brown, Linda A. Deegan, Michael Elliott, Suzanne G. Ayvazian		2:45 PM	
Location: 4C2		Robinson, C. L. ; Yakimishyn, J. L.: BIODIVERSITY METRICS FOR FISH IN <i>ZOSTERA MARINA</i> BEDS OF PACIFIC RIM NATIONAL PARK RESERVE OF CANADA	
8:00 AM	Karr, J. R. : MEASURING WHAT MATTERS AND COUNTING WHAT COUNTS: BIOLOGICAL ASSESSMENT IN COASTAL ENVIRONMENTS	3:00 PM	Wigand, C. ; McKinney, R.; Chintala, M.; Groffman, P.: IMPACTS OF NITROGEN LOADING ON SALT MARSH INTEGRITY IN NEW ENGLAND (USA)
8:30 AM	Courtenay, S. C. ; Munkittrick, K. R.; Leving, C.: COMMUNITY VS SENTINEL APPROACHES TO MONITORING ENVIRONMENTAL HEALTH OF CANADIAN COASTAL WATERS	3:15 PM	Kopecky, A. L. ; Dunton, K. H.: MONITORING DESIGN CRITERIA AND BIOLOGICAL INDICATORS FOR SEAGRASS CONSERVATION IN TEXAS COASTAL WATERS
8:45 AM	Pelletier, M. C. ; Kurtenbach, J.: VALIDATION OF A RECENTLY DEVELOPED EPIBENTHIC INDEX FOR NEW JERSEY ESTUARIES	3:30 PM	Carlisle, B. K. ; Smith, J. P.; Wilbur, A. R.; Hicks, A. L.; Baker, J. D.: DEVELOPMENT AND APPLICATIONS OF BIOTIC INTEGRITY INDICES FOR SALT MARSHES IN MASSACHUSETTS, USA.
9:00 AM	Llansó, R. J. ; Southerland, M.; Gerritsen, J.; Newell, A.: DEVELOPMENT OF INDICATORS OF BENTHIC COMMUNITY CONDITION FOR THE HUDSON RIVER ESTUARY: SUCCESSES AND CHALLENGES	3:45 PM	Gaston, G. R. ; Goulet, D.: HABITAT QUALITY OF THE BELIZE BARRIER REEF ECOSYSTEM: PATCH REEFS AND SEAGRASS.
9:15 AM	Smith, R. W.; Ranasinghe, J. A. ; Weisberg, S. B.; Montagne, D. E.; Cadieu, D. B.; Mikel, T. K.; Velarde, R. G.; Dalkey, A.: EXTENDING THE SOUTHERN CALIFORNIA BENTHIC RESPONSE INDEX TO ASSESS BENTHIC CONDITION IN BAYS	4:30 PM	Anderson, M. R. ; Hawkins, P. M.; Hodder, H. J.; Blundon, J. J.: DEVELOPMENT OF AN INDEX OF BIOTIC INTEGRITY FOR THE ROCKY INTERTIDAL OF COASTAL NEWFOUNDLAND
9:30 AM	Wade, D. L. ; Janicki, A. J.; McConnell, R. G.: DEVELOPMENT OF A BENTHIC SALINITY INDEX FOR THE SEGMENTS AND ESTUARINE TRIBUTARIES OF TAMPA BAY, FLORIDA.	4:45 PM	Noji, C. ; Adams, D. A.; Kurtenbach, J. P.; Litvin, S. Y.; Weinstein, M. P.: ASSESSING THE ECOLOGICAL CONDITION OF BARNEGAT BAY-LITTLE EGG HARBOR: A COMPARISON OF IBI AND DISCRIMINANT ANALYSIS MODELS FOR NEKTON AND BENTHOS
10:15 AM	Edgar, G. J. : CORE REQUIREMENTS FOR MONITORING ESTUARINE ENVIRONMENTS	5:00 PM	Van Dolah, R. F. ; Chestnut, D. E.; Riekerk, G. H.; Jutte, P. C.: USING MULTIPLE INTEGRATED MEASURES OF ENVIRONMENTAL AND BIOTIC CONDITION TO ASSESS THE OVERALL QUALITY OF ESTUARINE HABITATS
10:30 AM	Dauer, D. M. ; Llansó, R. J.; Diaz, R. J.; Schaffner, L. C.: BENTHIC BIOTIC INTEGRITY, HABITAT QUALITY AND DIAGNOSING CAUSES OF DEGRADATION IN CHESAPEAKE BAY, USA.	5:15 PM	Pawley, A. L. ; Swanson, C.; Stevenson, M.; Vorster, P.; Bobker, G.: THE SAN FRANCISCO BAY ECOLOGICAL SCORECARD: REGIONAL MULTI-METRIC INDEXES OF BIOTIC INTEGRITY
10:45 AM	Burton, W. H. ; Sillett, K. B.; Buchanan, C.; Jacobs, F.; Carpenter, K.; Sellner, S.: SUMMER MESOHALINE INDEX OF BIOTIC INTEGRITY FOR CHESAPEAKE BAY ZOOPLANKTON COMMUNITIES	5:30 PM	Ayvazian, S. G. : AUSTRALIA'S ESTUARY REPORT CARD: A NATIONAL ASSESSMENT
11:00 AM	Buchanan, C. ; Sellner, S.: THE USE OF THRESHOLDS IN DEVELOPING ZOOPLANKTON REFERENCE COMMUNITIES AND INDICES OF BIOTIC INTEGRITY FOR CHESAPEAKE TIDAL WATERS	5:45 PM	Rice, C. A. : EVALUATING THE EFFECTS OF HUMAN ACTIVITY ON THE BIOLOGICAL CONDITION OF PUGET SOUND
11:15 AM	Goethals, P. L.; Adriaenssens, V.; Breine, J. J.; Simoens, I. ; Van Liefferinghe, C.; Ercken, D.; Maes, J.; De Pauw, N.; Belpaire, C.: DEVELOPING AN INDEX OF BIOTIC INTEGRITY TO ASSESS FISH COMMUNITIES OF THE SCHELDE ESTUARY IN FLANDERS (BELGIUM)	Poster Session: Environmental Degradation	
11:30 AM	Klassen, G. J. ; Locke, A.; Bremner, A.; Tremblay, E.: DEVELOPING AN ESTUARINE INDEX OF BIOTIC INTEGRITY AS A MANAGEMENT TOOL IN KOUCHIBOUGUAC NATIONAL PARK, NEW BRUNSWICK, CANADA	Location: Exhibit Hall 4E	
		Time: 1:00 PM – 2:00 PM	
		Berry, H. D. ; Schoch, G. C.; Dethier, M. N.; Harper, J.; Bailey, A. R.: THE ABUNDANCE AND DISTRIBUTION OF NEARSHORE HABITATS IN PUGET SOUND: A COMPARISON OF THE RESULTS OF MULTIPLE HABITAT INVENTORY TECHNIQUES	
		Beskenis, J. L. : POLYSACCHARIDES AND METAL UPTAKE IN THE MARINE ENVIRONMENT	

- Bills, J. M.**; Kimmerer, W. J.; Smith, G.; Ruiz, G. M.; Choi, K. H.: IS MID-OCEAN EXCHANGE EFFECTIVE IN PREVENTING THE INVASION OF ESTUARIES BY ZOOPLANKTON FROM SHIPS' BALLAST TANKS?
- Bishop, T. D.**; Hurley, D.: THE NON-INDIGENOUS PORCELAIN CRAB, *PETROLISTHES ARMATUS*: POPULATION TRENDS IN THE SAPELO ISLAND NATIONAL ESTUARINE RESEARCH RESERVE
- Blake, A. C.**; Arias, E.; Apitz, S. E.; Bingler, L. S.: ESTABLISHING A HISTORICAL RECORD OF CONTAMINANT INPUTS IN SEDIMENTS AT PRISM SITES
- Blake, R. E.**; Grosholz, E. D.; Norton, W. S.; Rayl, N.: SELECTIVE GRAZING BY CANADA GEESE AND THE *SPARTINA* INVASION IN SAN FRANCISCO BAY
- Brennan, J. S.**: THE LAND-WATER INTERFACE: AN ASSESSMENT OF MARINE RIPARIAN FUNCTIONS AND MODEL FOR PROTECTION, RESTORATION AND ENHANCEMENT
- Brusati, E. D.**; Grosholz, E. D.: A COMPARISON OF MACROFAUNA IN PACIFIC CORDGRASS (*SPARTINA FOLIOSA*) VS. INVASIVE SMOOTH CORDGRASS (*S. ALTERNIFLORA* HYBRID) IN NORTHERN CALIFORNIA
- Carter, J.**; Merino, S. L.: MEASURING THE IMPACT ON NUTRIA (*MYOCASTOR COYPUS*) ON MARSH LOSS
- Chadwick, D. B.**; Davidson, B. M.; Guerrero, J. M.; Groves, G. J.: MEASURING DIFFUSIVE FLUX FOR PROJECT PRISM: USING AN AUTOMATED SAMPLING DEVICE TO EVALUATE CONTAMINANT EXCHANGE AT THE SEDIMENT/SURFACE WATER INTERFACE
- Champlin, D. M.**; Thursby, G. B.; Serbst, J. R.: EFFECT OF SALINITY ON COMMON REED (*PHRAGMITES AUSTRALIS*) IN A RESTORED SALT MARSH IN RHODE ISLAND
- Chen, Y. C.**; Wijte, A.: USING LEAF NITROGEN CONTENT TO DETERMINE A FAVORABLE TIME FOR HERBICIDE APPLICATION ON *SPARTINA ALTERNIFLORA*.
- Cole, F. A.**; Ferraro, S. P.: SPATIAL AND TEMPORAL DISTRIBUTION OF BENTHIC MACROFAUNAL FEEDING GUILDS AND EXOTISM AMONG HABITATS IN WILLAPA BAY, WASHINGTON, USA
- Cordell, J. R.**; Bollens, S. M.; Tear, L. M.: TIDAL-OLIGOHALINE HOLOPLANKTON OF NORTHEASTERN PACIFIC ESTUARIES: STRICTLY INVASIVE?
- Day, J. N.**; Lane, R. R.; Day, J. W.: THE EFFECTIVENESS OF SEDIMENT FENCES AS A MANAGEMENT TOOL IN COASTAL LOUISIANA.
- Ellis, K. M.**; Locke, A.; Klassen, G. J.; Rochette, R.; Hanson, M.: ARE ESTUARIES ISLANDS? IMPLICATIONS FOR INVASION BIOLOGY
- Engle, V. D.**; Detenbeck, N. E.; Campbell, D.; Smith, L. M.; Harwell, L. C.; Pelletier, P.; Nelson, W.: A CLASSIFICATION FRAMEWORK FOR COASTAL ECOSYSTEM RESPONSES TO AQUATIC STRESSORS
- Ferdie, M.**; Fourqurean, J. W.: DIFFERENTIAL RESPONSES OF BENTHIC PRIMARY PRODUCERS TO NITROGEN AND PHOSPHORUS ENRICHMENT IN A CARBONATE SEAGRASS SYSTEM
- Fong, P.**; Boyer, K. E.; Armitage, A. R.: THE NORTH VERSUS THE SOUTH: ARE NUTRIENT DYNAMICS FUNDAMENTALLY DIFFERENT IN CALIFORNIA ESTUARIES?
- Fullerton, B. J.**: CHARACTERISTICS OF COMMUTER FERRY WAKE IN NEW YORK HARBOR: IMPLICATIONS FOR MITIGATION
- Gieskes, J.**; Mahn, C.; Ziebis, W.; Chadwick, D. B.: ENVIRONMENTAL CONDITIONS OF SEDIMENTS IN SAN DIEGO BAY, A PRISM STUDY
- Goldberg, J. D.**; Kvitek, R.; Smith, G. J.; Silver, M. W.: TROPHIC TRANSFER OF DOMOIC ACID IN THE BENTHIC FOOD WEB OF MONTEREY BAY, CALIFORNIA
- Guard, J. M.**; Fenton, A. J.; Watts, P. W.: NUTRIENT FLUCTUATIONS DUE TO EFFLUENT DISCHARGE IN WINYAH BAY
- Hauswaldt, J. S.**; Glenn, T. C.: HEAVY METAL DISTRIBUTION IN DIFFERENT TISSUES OF THE DIAMONDBACK TERRAPIN, AN ESTUARINE TURTLE
- Holm, G. O.**; Sasser, C. E.; Visser, J. M.: THE EXOTIC NUTRIA CONSTRAINS MAIDENCANE RESTORATION
- Jackson, N. L.**; Smith, D. R.; Nordstrom, K. F.: USE OF BEACH NOURISHMENT TO ENHANCE HABITAT SUITABILITY FOR HORSESHOE CRABS
- Jimenez-Illescas, A. R.**; Elwany Hany, M. S.; Alatorre-Mendieta, M. A.; Obeso-Nieblas, M.: NUMERICAL MODELING OF A SECOND INLET CHANNEL BETWEEN BAHIA DE LA PAZ AND ENSENADA DE LA PAZ
- Katz, C.**; Blake, A.; Rosen, G.; Steinert, S.; Chadwick, D.: STORM WATER TOXICITY IN EFFLUENTS AND RECEIVING WATERS OF SAN DIEGO BAY
- Kurtz, J. C.**; Detenbeck, N.; Engle, V. D.; Ho, K.; Burgess, R.; Perez, K.; Campbell, D.: CLASSIFYING COASTAL ENVIRONMENTS: HISTORICAL PERSPECTIVE AND CURRENT NECESSITY
- Kyte, M. A.**: LESSONS LEARNED FROM AN EELGRASS (*ZOSTERA MARINA*) MITIGATION PROJECT
- Ma, X.**; Purcell, J. E.: EFFECTS OF ENVIRONMENTAL FACTORS ON SURVIVAL AND ASEXUAL REPRODUCTION OF THE INVASIVE HYDROZOAN, *MOERISIA LYONSI*
- Maa, J. P.**: THE ROLE OF SEDIMENT RESUSPENSION IN CONTAMINANT FLUX
- Melia, G. M.**; Zhang, C.; Glasgow, H. B.; Burkholder, J. M.: THERMAL TOLERANCE OF SELECT HARMFUL PHYTOPLANKTON ISOLATED FROM BALLAST WATER
- Montgomery, M. T.**; Osburn, C. L.: BACTERIAL PAH METABOLISM WITH DEPTH IN BIOTURBATED AND UNBIOTURBATED ESTUARINE SEDIMENTS.
- Osburn, C. L.**; Montgomery, M. T.: TERRIGENOUS ORGANIC MATTER SUPPORT OF CONTAMINANT DEGRADATION IN ESTUARINE SEDIMENTS
- Owens, M. S.**; Cornwell, J. C.: SEDIMENT NITROGEN CYCLING AND DENITRIFICATION ACROSS AN ESTUARINE SALINITY GRADIENT
- Paola, P.**; Kimmerer, W.; Nicolini, M. H.; Marcal, D.: THE ECOLOGICAL SIGNIFICANCE OF A HIGHLY ABUNDANT INTRODUCED ESTUARINE COPEPOD: FOODWEB LINK OR SINK?
- Partyka, M. L.**; Weber, M.; Peterson, M. S.; Ross, S. T.: MODELING OF STATIC/DYNAMIC HABITATS IN TIDAL RIVER ESTUARIES: TOOLS FOR THE RAPID ACQUISITION OF QUANTITATIVE DATA

Peterson, H. A.: WHICH SPECIES ARE LIKELY TO BECOME HIGH-IMPACT INVADERS? COMPARISON OF MODELS OF INVASIVE SPECIES IMPACTS AND A LONG-TERM RECORD OF SPECIES INVASIONS

Phelps, H. L.: FINDING SOURCES OF PAH'S, PCBS, AND PESTICIDES TO THE ANACOSTIA ESTUARY, DC, USING THE ASIATIC CLAM, *CORBICULA FLUMINEA*.

Schofield, P. J.; Nico, L. G.; Brown, M. E.: NON-NATIVE ASIAN SWAMP EELS (SYNBRANCHIDAE) ESTABLISHED IN THE CANAL SYSTEMS OF SOUTH FLORIDA: POTENTIAL FOR RANGE EXPANSION INTO ESTUARINE HABITATS

Scott, L. C.; Burton, W. H.; Yelverton, F.: EFFECTS OF SAND PLACEMENT ON SURF ZONE AND NEAR SHORE BENTHIC RESOURCES ALONG THE NORTH CAROLINA COAST

Shouse, M. K.; Parchaso, F.; Thompson, J. K.; Hornberger, M. I.; David, C. P.; Luoma, S. N.: BENTHIC COMMUNITY CHANGES ASSOCIATED WITH 25 YEARS OF DECLINING TRACE METAL CONCENTRATIONS IN SOUTH SAN FRANCISCO BAY, CA.

Smith, C. F.; Chadwick, D. B.; Paulsen, R. J.; Groves, G. J.: ADVECTIVE TRANSPORT IN PROJECT PRISM: USE OF AN AUTOMATED SEEPAGE/WATER SAMPLING METER TO EVALUATE CONTAMINANT EXCHANGE AT THE GROUND/SURFACE WATER INTERFACE

Stamatiou, L. A.; Cordell, J. R.; Brennan, J. S.; Sobocinski, K. R.: ANALYSIS OF DIET OF JUVENILE CHINOOK SALMON IN CENTRAL PUGET SOUND

Thompson, W. J.: COMMUNITY EFFECTS OF THE EUROPEAN GREEN CRAB IN THE SOUTHERN GULF OF ST. LAWRENCE

Thomsen, M. S.; McGlathery, K.: DO THE INVASIVE SEAWEED *CODIUM FRAGILE* spp *TOMETOSOIDES* PERFORM BETTER THAN NATIVE SEAWEEDS IN HOG ISLAND BAY, VIRGINIA?

Todd, S. W.; Mortimer, A. C.; Brocksmith, R. F.: USING HISTORIC COASTAL SURVEY MAPS TO IDENTIFY AND PRIORITIZE NEARSHORE HABITAT PROTECTION AND RESTORATION EFFORTS IN HOOD CANAL, WASHINGTON

Toft, J. D.; Simenstad, C. A.; Cordell, J. R.; Young, C. D.; Stamatiou, L.: JUVENILE SALMON USAGE OF NEARSHORE HABITATS ALONG MODIFIED SHORELINES

Tomlinson, M. C.; Wynne, T. T.; Stumpf, R. P.; Truby, E. W.; Kirkpatrick, G. J.; Pederson, B. A.; Vargo, G. A.; Villareal, T. A.: REMOTE SENSING TECHNIQUES FOR DETECTING HARMFUL ALGAL BLOOMS IN COASTAL WATERS

Tyrrell, M. C.; Carle, D.; Snow-Cotter, S.; Wilbur, A.: MARINE HABITAT DATA AND MAPS FOR MASSACHUSETTS RESOURCE MANAGERS

Walker, S. E.; Dickhut, R. M.; Chisholm-Brause, C. J.: PAHS IN A HIGHLY INDUSTRIALIZED URBAN ESTUARY: DISTRIBUTION AND TRENDS

Weinstein, J. E.; Sanger, D. M.: COMBINED EFFECTS OF LOWERED OXYGEN AND POLYCYCLIC AROMATIC HYDROCARBON EXPOSURE ON TWO COMMON ANNELIDS OF SOUTH CAROLINA COASTAL ESTUARIES

Wijte, A.; Mizutani, T.; Motamed, E. R.: SEASONAL PATTERNS IN REGROWTH FROM FRAGMENTS OF UPRIGHT AND HANGING STEMS OF *ARUNDO DONAX* (GIANT REED)

Poster Session: Estuarine Fauna

Location: Exhibit Hall 4E

Time: 1:00 PM – 2:00 PM

Adamack, A. T.; Rose, K. A.; Cowan Jr., J. H.; Houde, E. D.; Rilling, G. C.: QUANTIFYING HABITAT QUALITY OF LARVAL BAY ANCHOVY (*ANCHOA MITCHILLI*) IN CHESAPEAKE BAY BY LINKING AN INDIVIDUAL-BASED MODEL WITH SPATIALLY-DETAILED FIELD DATA

Blackmon, D. C.; Valentine, J. F.: NOCTURNAL EMERGENCE: A PREDATORY ESCAPE RESPONSE OF SMALL INVERTEBRATES FROM LOWER ORDER REEF FISH IN THE FLORIDA KEYS.

Bloomfield, A. L.; Gillanders, B. M.: FISH AND INVERTEBRATE ASSEMBLAGES IN SEAGRASS, MANGROVE, SALTMARSH AND UNVEGETATED HABITATS IN BARKER INLET-PORT RIVER ESTUARY, SOUTH AUSTRALIA.

Borgatti, R.; Feller, I. C.: EFFECTS OF NUTRIENT ENRICHMENT ON SEEDLING HERBIVORY AND SURVIVAL ALONG A TREE-HEIGHT GRADIENT.

Botton, M. L.; Loveland, R. E.: DO POPULATION TRENDS OF SPAWNING HORSESHOE CRABS (*LIMULUS POLYPHEMUS*) IN THE DELAWARE ESTUARY INDICATE A RESPONSE TO AN EMERGING COASTAL FISHERY?

Bowen, M.; Heinig, C. S.; Frick, A.; Young, K.: EXPANDING AND SUSTAINING THE SHELLFISHERIES OF CASCO BAY IN MAINE

Brown, K. M.; Peterson, G. W.; Lezina, B.; Banks, P. D.; McDonough, M.; Ramcharan, C.: NOVEL METHODS FOR DETERRING BLACK DRUM PREDATION ON OYSTER LEASES IN LOUISIANA.

Campfield, P. A.; Houde, E. D.: A COMMUNITY ANALYSIS OF ICHTHYOPLANKTON IN THE PATUXENT RIVER

Carr, S. D.; Hench, J. L.; Luettich, R. A.; Forward, R. B.: MODELING THE LATE-STAGE SPAWNING MIGRATION OF BLUE CRABS IN A SHALLOW, TIDALLY-DRIVEN ESTUARY

Christy, A. E.; Beltran, H. S.; Suurbier, A. D.; Cheney, D. P.; Horner, R. A.: PHYTOPLANKTON ABUNDANCE AND SEASONAL CHANGE IN RESPONSE TO UTILIZATION BY A HIGH DENSITY MUSSEL CULTURE SYSTEM, SOUTH PUGET SOUND, WASHINGTON, USA

Ferner, M. C.; Weissburg, M. J.: TO EAT OR NOT TO BE EATEN: CHEMICALLY MEDIATED FORAGING AND PREDATOR AVOIDANCE

Frias-Torres, S.; Switzer, T. S.; Baltz, D. M.; Chesney, E. J.: CHANGES IN NEKTON COMMUNITY STRUCTURE IN THE NORTHERN GULF OF MEXICO

Goetz, F.; Jeanes, E.; Hart, G.; Ebel, C.; Starkes, J.; Conner, E.: BEHAVIOR OF ANADROMOUS BULL TROUT IN THE PUGET SOUND AND THE PACIFIC COAST OF WASHINGTON

Greenawalt, J. M.; Frazer, T. F.; Jacoby, C. A.; Arnold, W. S.: ESTIMATING MORTALITY RATES OF THE SOUTHERN BAY SCALLOP ALONG THE FLORIDA'S GULF COAST: A KEY COMPONENT TO SUSTAINABLE MANAGEMENT

CONFERENCE-AT-A-GLANCE

MEETINGS AND SOCIAL SCHEDULE-AT-A-GLANCE

- Guelinckx, J.**; Maes, J.; De Brabandere, L.; Dehairs, F.; Ollevier, F.: ARE STABLE C AND N ISOTOPES USEFUL TRACERS TO ANALYSE THE MIGRATION DYNAMICS OF JUVENILE HERRING AND SPRAT BETWEEN THE NORTH SEA AND THE SCHELDT
- Hartman, M. J.**; Bushek, D.; Wasson, K.; Lohrer, A. M.; Crawford, M.; Stancyk, S. E.: USING THE NATIONAL ESTUARINE RESEARCH RESERVE SYSTEM PLATFORM TO DETECT INVASIONS BY EXOTIC DECAPOD CRABS
- Hasek, B. E.**; Felder, D. L.: BIOCHEMICAL CONTENTS OF OVARY AND HEPATOPANCREAS TISSUES IN *UCA LONGISIGNALIS* AND *UCA NR. MINAX*
- Hawkes, E. A.**; Kitting, C. L.: LACK OF GENETIC DIVERSITY WITHIN EACH OF FOUR COMMON FISH SPECIES AMONG CENTRAL CALIFORNIA TIDAL MARSHES, BASED ON MITOCHONDRIAL CONTROL REGION DNA SEQUENCES
- Hench, J. L.**; Forward, R. B.; Carr, S. D.; Luettich, R. A.: OBSERVATIONS AND PHYSICAL CUES FOR SELECTIVE TIDAL STREAM TRANSPORT IN OVIGEROUS BLUE CRABS
- Hoffman, J. C.**: DETERMINING ESSENTIAL HABITAT FOR AMERICAN SHAD (*ALOSA SAPIDISSIMA*) IN THE YORK RIVER, VA USING STABLE ISOTOPE ANALYSIS
- Holt, G. J.**: FISH AQUACULTURE CAN PLAY AN IMPORTANT ROLE IN CONSERVING MARINE RESOURCES
- Hurley, D.**; Bishop, T. D.; Alber, M.: AN INVENTORY OF THE MACROINVERTEBRATE FAUNA OF OYSTER REEFS IN THE DUPLIN RIVER, GEORGIA, WITH EMPHASIS ON NON-INDIGENOUS SPECIES OCCURRENCE
- Jackson, A. C.**; Rundle, S. D.; Attrill, M. J.; Cotton, P. A.: CAUSES AND CONSEQUENCES OF ONTOGENETIC DIET SHIFTS IN THE COMMON GOBY (*POMATOSCHISTUS MICROPS*)
- Johnson, G. A.**; Peterson, C. H.; Christian, R. R.: TANGLED FOOD WEBS: MODELING THE EFFECTS OF SHRIMP TRAWLING AND DISCARDING IN THE NEUSE RIVER ESTUARY, NORTH CAROLINA
- Kroutil, R. M.**; Valentine, J. F.: IMPACTS OF FISHING PRESSURE: EVIDENCE OF UNANTICIPATED CHANGES IN COASTAL FOOD WEB ARCHITECTURE USING MARINE PROTECTED AREAS IN THE FLORIDA KEYS
- Lara-Dominguez, A. L.**; Yanez-Arancibia, L. A.; Day, J. W.; Reyes, E.: ESTUARINE NEKTON ASSEMBLAGES COUPLED WITH HABITAT HETEROGENEITY IN TERMINOS LAGOON A TROPICAL COASTAL LAGOON IN THE SOUTHERN GULF OF MEXICO
- Maes, J.**; Limburg, K. E.: WHY DO YOUNG HERRING OVERWINTER IN NORTH SEA ESTUARIES: A DYNAMIC MODEL FOR THE LIFE HISTORY OF *CLUPEA HARENGUS*.
- Mondragon, J. M.**; Taggart, S. J.; Hooge, P. N.; Hooge, E. R.; Andrews, A. G.: LIVING ON THE EDGE: THE DISTRIBUTION OF DUNGENESS CRAB, *CANCER MAGISTER*, IN A RECENTLY DEGLACIATED FJORD
- Newton, M. E.**: FACTORS INFLUENCING THE DIURNAL VERTICAL MIGRATION OF THE JUVENILE SEASTAR, *ECHINASTER SPINULOSUS*, IN SEAGRASS BEDS
- Nunez, A. X.**; Withers, K.; Tunnell, J. W.; Nicolau, B. A.: CHARACTERIZATION OF THE MACROBENTHIC COMMUNITIES WITHIN TWO ESTUARIES, SOUTH TEXAS
- Posey, M. H.**; Alphin, T. D.; Harwell, H. D.; Scott, S. E.: JUVENILE BLUE CRAB DISTRIBUTION ALONG AN ESTUARINE GRADIENT: THE IMPORTANCE OF LOW SALINITY HABITAT
- Powers, S. P.**; Bishop, M. A.: SPATIAL AND TEMPORAL VARIATION IN THE FOOD WEB OF A SUBARCTIC ESTUARY: IMPLICATIONS FOR LOCAL AND REGIONAL POPULATIONS OF NEARSHORE FISH AND BIRDS.
- Reyier, E. A.**; Shenker, J. M.: ICHTHYOPLANKTON COMMUNITY STRUCTURE OF THE INDIAN RIVER LAGOON COMPLEX, FLORIDA WITH EMPHASIS AS TO THE IMPORTANCE OF AN ESTUARINE NO-TAKE FISHERIES RESERVE
- Ross, S. W.**: GOBIOD FISH DISTRIBUTIONS IN NORTH CAROLINA ESTUARIES
- Ruggerone, G. T.**; Goetz, F.: SURVIVAL, GROWTH, AND AGE AT MATURATION OF PUGET SOUND CHINOOK SALMON: EVIDENCE FOR INTERSPECIFIC COMPETITION WITH PINK SALMON DURING EARLY MARINE LIFE
- Rumrill, S. S.**; Poulton, V. K.: ECOLOGICAL ROLE AND POTENTIAL IMPACTS OF OYSTER CULTURE IN THE ESTUARINE ENVIRONMENT OF HUMBOLDT BAY, CA
- Sandell, T. A.**; Jacobson, K. C.; Casillas, E.: GRADIENTS OF INFECTION? THE EFFECT OF COMMON PATHOGENS ON OUTMIGRATING JUVENILE SALMON IN THE COLUMBIA RIVER ESTUARY AND NEAR-SHORE NE PACIFIC
- Saruwatari, T.**; Kofuji, K.; Tanaka, H.; Kintaka, T.; Saito, S.; Watanabe, Y.: LAKE HINUMA, A NURSERY GROUND FOR FISH LARVAE IN THE KANTO PLAINS, HONSHU, JAPAN
- Schofield, P. J.**: PRESENCE OF SEAGRASS STRUCTURES DENSITIES AND DISTRIBUTIONS OF TWO ESTUARINE GOBIES: LABORATORY AND FIELD EVIDENCE
- Sheehan, E. V.**; Attrill, M. J.; Coleman, R. A.; Thompson, R. C.: ASSESSING THE ECOLOGICAL IMPACTS OF CRAB TILING ON ESTUARINE FAUNA
- Sheppard, M. E.**; Lee, R. F.: SUSTAINABLE AQUACULTURE OF BLACK SEA BASS (*CENTROPRISTIS STRIATA*) IN A RE-CIRCULATING SALTWATER SYSTEM.
- Spicer, J. S.**; Turner, R. E.: FISH IN SPACE: INTEGRATING GIS, BIOTIC GRADIENTS, AND CATCH DATA TO EXAMINE HABITAT FRAGMENTATION
- Stevenson, C. T.**; Snyder, R. A.; Ruth, B. F.: ENHANCEMENT OF RECRUITMENT AND NURSERY FUNCTION BY HABITAT CREATION IN PENSACOLA BAY, FLORIDA
- Suhrbier, A. D.**; Cheney, D. P.; Beltran, H. S.; Christy, A. E.; Smith, F. J.; Davis, J. P.; Brooks, K. M.: INFLUENCES OF WATER CURRENTS AND MAJOR WATER QUALITY CONSTITUENTS ON TWO HIGH DENSITY MUSSEL CULTURE SYSTEMS, PUGET SOUND, WASHINGTON, USA
- Thompson, S. R.**; Cederholm, C. J.: EVIDENCE FOR SUPPLEMENTATION OF THE ESTUARINE FOOD WEB BY CHUM SALMON SPAWNERS

- Vandenburgh, E. M.**; Peterson, C. H.; Powers, S. P.: CREATING AN EXPERIMENTAL SPAWNING SANCTUARY OF THE HARD CLAM *MERCENARIA MERCENARIA* IN THE NERRS RACHEL CARSON RESERVE, BEAUFORT, NC
- Vincent, J. S.**; Porter, D. E.; Coen, L. D.; Bushek, D.; Schill, S. R.: MAPPING INTERTIDAL SHELLFISH RESOURCES USING REMOTE SENSING
- Wilbur, A. R.**; Camisa, M.: INTRAANUAL VARIATION IN FISH POPULATION CHARACTERISTICS AND SEAFLOOR HABITAT RELATIONSHIPS IN A LARGE ESTUARINE EMBAYMENT: BUZZARDS BAY, MASSACHUSETTS
- Wrona, A. B.**; Wiegert, R. G.; Chalmers, A. C.; Weatherby, C.: USING ULTRASONIC TELEMETRY AND A GEOGRAPHICAL INFORMATION SYSTEM TO DETERMINE ESSENTIAL HABITAT FOR BLUE CRABS (*CALLINECTES SAPIDUS*) IN A GEORGIA ESTUARY.
- Yoder, C. L.**; Platt, W. J.: CHARACTERIZATION OF THE ESTUARINE BRACKISH MARSH TO BOTTOMLAND FOREST ECOTONE AT WEEKS BAY NATIONAL ESTUARINE RESEARCH RESERVE, ALABAMA
- Poster Session: Vegetation**
- Location: Exhibit Hall 4E
- Time: 1:00 PM – 2:00 PM
- Alexander, H. D.**; Dunton, K. H.: WASTEWATER EFFLUENT AS AN ALTERNATIVE FRESHWATER SOURCE IN A HYPERHALINE ESTUARY: IMPACTS ON EMERGENT VEGETATION
- Archer, J. A.**; Berry, H. D.; Wyllie-Echeverria, S.; Sewell, A. T.; Reeves, B.: PLANT DEMOGRAPHICS OF *ZOSTERA MARINA* ACROSS LARGE SPATIAL GRADIENTS IN PUGET SOUND AND THE STRAIT OF JUAN DE FUCA
- Aryuthaka, C.**; Monthum, Y.: THE MEIOBENTHIC COMMUNITIES IN THE DUGONG FEEDING TRAILS IN PHANG-NGA SEAGRASS BED, THAILAND
- Bricker, E.**; Zieman, J. C.: THE USE OF ABOVE-GROUND PRODUCTIVITY AND PLANT STRUCTURE TO IMPROVE ESTIMATION OF BELOW-GROUND PRODUCTIVITY IN THE SEAGRASS *THALASSIA TESTUDINUM*.
- Buchsbaum, R. N.**; Ludlam, J. P.; Williams, L.; Shull, D.; Garritt, R. H.: EFFECTS OF REGULAR SALT MARSH HAYING ON MARSH PLANTS, ALGAE, INVERTEBRATES AND BIRDS AT PLUM ISLAND SOUND, MASSACHUSETTS
- Bulthuis, D. A.**; Shull, S.: DISTRIBUTION OF EELGRASSES AND MACROALGAE IN PADILLA BAY, WASHINGTON IN 2000: GAINS AND LOSSES OVER A DECADE
- Burns, J. A.**; Jacobson, M.; Capone, D. G.: RATES OF MICROBIAL PROCESSES FOUND ACROSS A TREE HEIGHT GRADIENT, AND ASSOCIATED WITH FERTILIZATION TRANSECTS IN BELIZE MANGROVE SYSTEM.
- Byron, D. A.**; Fourqurean, J. W.: DETERMINING THE PHYSIOLOGICAL STATUS OF A SUBTROPICAL SEAGRASS, *THALASSIA TESTUDINUM*, USING PULSE AMPLITUDE MODULATED (PAM) FLUOROMETRY
- Carlisle, E. L.**; Wyllie-Echeverria, S.; Klinger, T.: EMERGING SEAGRASS MANAGEMENT IN WASHINGTON STATE: NEW DIRECTIONS FOR A NEW MILLENNIUM
- Carter, J.**; Arrivillaga, A.; Merino, S. L.: A SURVEY OF ESTURINE SUBMERGED AQUATIC VEGETATION ALONG THE GULF OF MEXICO COAST.
- Coronado-Molina, C.**; Korvela, M.; Vera-Herrera, F.; Alvarez-Guillen, H.; Day, J. W.; Sklar, F.: VERTICAL ACCRETION, ELEVATION CHANGE, AND LITTER PRODUCTION IN TERRIGENOUS AND CARBONATE MANGROVE FORESTS LOCATED IN THE GULF OF MEXICO
- Culberson, S. D.**: SOIL SALINITY, SURFACE ELEVATION, AND TIDAL HYDROLOGY INFLUENCES ON MARSH VEGETATION ZONATION AND PRODUCTIVITY IN THE SAN FRANCISCO ESTUARY, CALIFORNIA, USA
- Cunniff, K. M.**; Fourqurean, J. W.: FACTORS AFFECTING THE REPRODUCTIVE ECOLOGY OF *THALASSIA TESTUDINUM* IN THE FLORIDA KEYS NATIONAL MARINE SANCTUARY (FKNMS)
- Demopoulos, A. W.**; Fry, B.; Cormier, N.; Ewel, K. C.: TROPHIC LINKAGES AND CRAB MOVEMENT WITHIN MICRONESIAN MANGROVE FORESTS
- Drury McCall, D. M.**; Rakocinski, C. F.: EFFECTS OF GRASS SHRIMP *PALAEMONETES* SP. AND NUTRIENTS ON WIDGEONGRASS *RUPPIA MARITIMA* CONDITION THROUGH CHANGES IN EPIPHYTE LOAD AND COMPOSITION
- Erickson, A. A.**; Bell, S. S.; Dawes, C. J.: ARE SIMILAR CONCLUSIONS FOUND WHEN MEASURING HERBIVORY IN VARIOUS WAYS?: IMPLICATIONS FOR UNDERSTANDING ECOLOGY AND ADDRESSING MANAGEMENT ISSUES
- Ewe, S. M.**; Lovelock, C. E.; Feller, I. C.: ECOLOGICAL AND PHYSIOLOGICAL RESPONSES OF MANGROVES TO THE INTERACTION BETWEEN NUTRIENTS AND SALINITY.
- Franz, D. R.**; Friedman, I.: POOL FORMATION IN A JAMAICA BAY FRINGING SALT MARSH - THE MUSSEL BERM HYPOTHESIS
- Fullagar, J. A.**; Rybczyk, J. M.: A MODEL OF MICRONESIAN MANGROVE SEDIMENT DYNAMICS GIVEN IPCC PREDICTIONS OF EUSTATIC SEA LEVEL RISE
- Grevstad, F. S.**: BIOLOGICAL CONTROL OF *SPARTINA ALTERNIFLORA* IN WILLAPA BAY, WA: MAKING IT WORK
- Hale, J. A.**; Frazer, T. K.: COMPLEMENTARY DATA SOURCES DESCRIBE LANDSCAPE PATTERNS OF SAV ALONG THE SPRINGS COAST OF FLORIDA
- Hammerstrom, K. K.**; Kenworthy, W. J.; Fonseca, M. S.; Whitfield, P. E.; Merello, M.: USE OF A NEW SEED EXTRACTION TECHNIQUE TO EXAMINE SEED BANK RESOURCES OF *HALOPHILA DECIPiens* AND *HALOPHILA JOHNSONII*
- Huang, X.**; Morris, J. T.: THE REGULATION OF SECONDARY SUCCESSION OF TIDAL FRESHWATER MARSHES ON THE UPPER COOPER RIVER, SOUTH CAROLINA

- Hunt, M. J.**; Doering, P. H.; Chamberlain, R. H.; Haunert, K. M.; Qiu, C.: COMBINING MODELING AND EXPERIMENTAL WORK TO DETERMINE LIGHT AND SALINITY STRESS FOR SAV IN THE OLIGOHALINE ZONE OF A RIVERINE ESTUARY WITH MANAGED INFLOW
- Jacobson, M. E.**; Burns, J.; Smallwood, B. J.; Romero, A.; Thornton, D.; Rudnick, G.; Lee, C.; Fogel, M. L.; Wooller, M.: NUTRIENT CONTENT, CYCLING RATES, STABLE ISOTOPE AND AVAILABILITY OF NUTRIENTS GENERATED BY A MICROBIAL FLOCC ASSOCIATED WITH MANGROVE TREES.
- Jewett-Smith, J.**; Koch, K.; Moyer, E.: DISTRIBUTION AND SEASONALITY OF THE MARINE ALGAE OF CHINCOTEAGUE BAY, VIRGINIA, USA
- Johansson, J. R.**; Avery, W. M.: DEPTH DISTRIBUTION AND POTENTIAL LIGHT AVAILABILITY OF DOMINANT SEAGRASS SPECIES MEADOWS IN THE UPPER SEGMENTS OF TAMPA BAY, FLORIDA.
- Johnson, M. G.**; Andersen, C. P.: ASSESSING ROOT DEMOGRAPHY AND CARBOHYDRATE DYNAMICS OF *ZOSTERA MARINA*
- Kaldy, J. E.**: IMPORTANCE OF “GREEN TIDES” IN A PACIFIC NORTHWEST ESTUARY: PRODUCTION DYNAMICS OF EELGRASS (*ZOSTERA MARINA*), DWARF EELGRASS (*Z. JAPONICA*) AND *ENTEROMORPHA* spp.
- Kelley, J.**; Hardison, L.; Morris, J.: FRESHWATER TIDAL PLANT DISTRIBUTION ON THE COOPER RIVER, S.C.
- Ketron, A. D.**; Carlson, P.; Saindon, D. D.; Sargent, B.; Yarbro, L.: MONITORING CHANGES IN SEAGRASS PATCHES USING REAL-TIME KINETIC (RTK) GPS
- Kolker, A. S.**; Goodbred, S. L.; Cochran, J. K.; Browne, J.; Kroboth, T.; Pagano, M.; Beck, A.: THE ROLE OF LOCAL DYNAMICS IN DETERMINING SALT MARSH RESPONSE TO RELATIVE SEA-LEVEL RISE
- Lee, K.**; Park, J.; Kim, J.: SEASONAL VARIATIONS IN BIOMASS, SHOOT MORPHOLOGY, PRODUCTION AND TISSUE NUTRIENT CONTENT OF EELGRASS, *ZOSTERA MARINA* IN KOREA
- McDonald, A. A.**; Madden, C. J.: AN ECOLOGICAL MODEL OF SEAGRASS DYNAMICS IN FLORIDA BAY
- McGoff, N. M.**; Zieman, J. C.: THE INFLUENCE OF *ORCHELIUM FIDICINUM* GRAZING ON NUTRIENT CYCLING AND *SPARTINA ALTERNIFLORA* PRODUCTIVITY IN A SALT MARSH ECOSYSTEM.
- Michaels, R. E.**; Zieman, J. C.: THE EFFECTS OF FIDDLER CRABS ON PORE WATER BIOGEOCHEMISTRY OF A VIRGINIA COASTAL *SPARTINA ALTERNIFLORA* SALT MARSH
- Monthum, Y.**; Aryuthaka, C.: DO MEIOBENTHIC COMMUNITIES DIFFER AMONG SEAGRASS ASSEMBLAGE ?
- Moore, K. A.**; Campbell, J.; Anderson, B. A.; Arnold, G.: THE USE OF PERIPHYTE FOULING STRIPS IN PREDICTING SEAGRASS EPIPHYTE GROWTH.
- Norris, J. G.**; Fraser, I. E.; Berry, H.; Sewell, A.; Reeves, B.; Wyllie-Echeverria, S.: A COMPARISON OF ACOUSTIC AND UNDERWATER VIDEOGRAPHIC METHODS FOR MAPPING AND MONITORING EELGRASS (*ZOSTERA MARINA*)
- Paling, E. I.**; van Keulen, M.; Tunbridge, D. J.: SEAGRASS TRANSPLANTATION IN HIGH AND LOW ENERGY ENVIRONMENTS IN WESTERN AUSTRALIA

National Sea Grant Ad

- Pearce, J. P.**; Withers, K.; Tunnell, Jr., J. W.: RELATIONSHIP OF SEAGRASSES TO BENTHIC COMMUNITY STRUCTURE, UPPER LAGUNA MADRE AND BAFFIN BAY, TEXAS
- Perez, B. C.**; Cahoon, D. R.; Segura, B. D.; Lynch, J. C.; Olney, T.: MARSH ELEVATION DYNAMICS OVER VARIOUS DEPTH PROFILES IN A LOUISIANA SALT MARSH
- Phillips, L. A.**; Castellanos, D. L.; Weifenbach, D. K.: ELEVATION, ACCRETION, AND VEGETATION RESPONSE TO DROUGHT AND FLOOD STRESS ACROSS THREE SOIL TYPES IN THE EAST MUD LAKE MARSH MANAGEMENT AREA, LOUISIANA
- Richards, C. L.**; Donovan, L. A.; Hamrick, J. H.: GENETIC DIVERSITY AND FINE SCALE POPULATION STRUCTURE OF THE SALT MARSH PERENNIAL *BORRICHIA FRUTESCENS* ON SAPELO ISLAND, GA
- Rodríguez, D. L.**; Morris, J. T.: EFFECTS OF THE FREQUENCY AND DURATION OF TIDAL INUNDATION ON SALT MARSH MACROPHYTE STRUCTURE AND FUNCTION.
- Saindon, D. D.**; Carlson, P.; Sargent, B.; Yarbro, L.; Lessmann, J. M.: SPATIAL AND TEMPORAL PATTERNS OF SEAGRASS LOSS AT FEATHER SOUND, TAMPA BAY
- Sanders, G. M.**; Prosser, D. J.; Erwin, R. M.: DETECTING CHANGES IN ATLANTIC LAGOONAL SALT MARSH HABITAT USING CURRENT AND HISTORIC AERIAL IMAGERY
- Schwarzschild, A. C.**; Zieman, J. C.: THE IMPORTANCE OF CLONAL INTEGRATION TO THE SURVIVAL AND GROWTH OF *SYRINGODIUM FILIFORME* RAMETS.
- Sewell, A. T.**; Reeves, B.; Berry, H. D.; Archer, J. A.; Wyllie-Echeverria, S.; Mumford, T. F.; Skalski, J. R.: STATUS AND TRENDS IN EELGRASS IN PUGET SOUND: RESULTS OF 2000-2002 MONITORING AND COMPARISON TO OTHER STUDIES
- Short, F. T.**; Coles, R. G.; Fortes, M.; Koch, E.: SEAGRASSNET: A GLOBAL SEAGRASS MONITORING PROGRAM
- Smallwood, B. J.**; Romero, I.; Thornton, D.; Jensen, H.; Jacobson, M. E.: DISTRIBUTION OF NUTRIENTS ASSOCIATED WITH A NATURAL TREE HEIGHT GRADIENT OF NUTRIENT LIMITED TREES IN BELIZE
- Sommer, T. R.**; Harrell, W. C.; Nobriga, M.: COME HELL OR HIGH WATER: REARING OF JUVENILE CHINOOK SALMON IN A SEASONAL FLOODPLAIN OF THE SAN FRANCISCO ESTUARY
- Stamey, M.**; Klinger, T.; Cordell, J.; Wyllie-Echeverria, S.; Goodwin, R.: EELGRASS TRANSPLANTING AS A COMPENSATORY MITIGATION TECHNIQUE IN PUGET SOUND, WA
- Stankelis, R. M.**; Boynton, W. R.; Frank , J. M.: AN ANALYSIS OF PARAMETERS CONTROLLING EPIPHYTE BIOMASS ACCUMULATION RATES IN CHESAPEAKE BAY AND ITS TRIBUTARIES
- Steinmetz, A. M.**; Dobberfuhl, D.: DROUGHT RELATED EFFECTS ON SUBMERGED AQUATIC VEGETATION COMMUNITIES IN THE LOWER ST. JOHNS RIVER ESTUARY
- Stutes, J. P.**; Dunsmuir, A.; Hunter, A.; Corcoran, A.; Cebrian, J.: COMPARING COMMUNITY PRODUCTION DYNAMICS BETWEEN SEAGRASS DOMINATED BENTHOS AND BARE SEDIMENT IN A PRISTINE AND IMPACTED SITE IN NW FLORIDA.
- Thomas, C. R.**; Blum, L. K.: BIOGEOCHEMISTRY AND SOIL ORGANIC MATTER ACCUMULATION IN A VIRGINIA SALT MARSH
- Thurkill, A. L.**; Withers, K.: SEAGRASS COMMUNITY STRUCTURE IN RELATION TO POINT AND NON-POINT SOURCES IN UPPER LAGUNA MADRE: PRELIMINARY RESULTS
- Townsend, S. M.**; van Proosdij, D.: SPATIAL ANALYSIS OF *SPARTINA ALTERNIFLORA* COLONIZATION AND SEDIMENT ACCRETION ON A BAY OF FUNDY MUD FLAT FOLLOWING CAUSEWAY CONSTRUCTION
- van Proosdij, D.**; Davidson-Arnott, R. G.; Ollerhead, J.: CONTROLS ON THE SPATIAL AND TEMPORAL PATTERNS OF SEDIMENT DEPOSITION ACROSS A BAY OF FUNDY SALTMARSH SURFACE
- Virnstein, R. W.**; Morris, L. J.; Steward, J. S.; Beck, J.: SETTING SEAGRASS AND LIGHT-DEPTH TARGETS FOR THE INDIAN RIVER LAGOON, FL
- Weinkauf, A. L.**; Jacukiewicz, J. A.; Lessmann, J. M.; Cuba, T. R.: WHAT CAN BE LEARNED FROM RAPID ASSESSMENT OF SEAGRASS BEDS IN HABITAT RESTORATION AND MANAGEMENT?
- Wilcox, D. J.**; Orth, R. J.; Marion, S. R.: EVALUATING SEAGRASS RESTORATION PROGRESS IN A VIRGINIA COASTAL LAGOON USING LOW-LEVEL AERIAL PHOTOGRAPHY
- Winters, L. K.**; Zieman, J. C.: THE RELATIONSHIP BETWEEN THE MORPHOLOGY OF *SALICORNIA VIRGINICA* AND MARSH ELEVATION IN A VIRGINIA SALT MARSH SYSTEM
- Wooller, M. J.**; Fogel , M. L.; Cheeseman, J.; Jacobson, M.; Smallwood, B. J.; Sharler, U.; Roberts, Q.; Akob, D.; Myerchin, G.; Schmitt, J. P.: LANDSCAPE SCALE ISOTOPIC PATTERNS IN PLANTS AND ANIMALS OF TWIN CAYS, BELIZE
- Yang, S. Y.**; Friedrichs, C. T.; Ding, P. X.; Zhu, J.; Zhao, Q. Y.: MORPHOLOGICAL RESPONSE OF TIDAL MARSHES, FLATS AND CHANNELS OF THE OUTER YANGTZE RIVER MOUTH TO A MAJOR STORM
- Young, D. R.**; Specht, D. T.; Clinton, P. J.: ESTIMATING DENSITIES OF ESTUARINE EELGRASS AND BENTHIC MACROALGAE VIA AERIAL PHOTOGRAPHY
- Zaldivar, J. A.**; Herrera-Silveira, J. A.; Coronado-Molina, C.: LONG-TERM PATTERNS OF LITTER PRODUCTION IN FRINGE MANGROVE FOREST IN A KARSTIC TROPICAL COASTAL LAGOON.

WEDNESDAY, SEPTEMBER 17, 2003

CS-06: Effects of Disturbance on Food Webs

Chair(s): Jim Power

Location: 3B

- 8:00 AM **Thompson, J. K.**; Parchaso, F.; Cayan, D.; Dettinger, M.; Knowles, N.; Peterson, D.: EFFECTS OF HYDROLOGICAL EXTREMES ON THE BENTHIC-PELAGIC FOOD WEB IN SAN FRANCISCO BAY: WHAT THE PATTERNS TELL US ABOUT THE ECOSYSTEM RESPONSE TO CLIMATE CHANGE
- 8:15 AM **Lohrer, A. M.**; Berkenbusch, K.; Thrush, S. F.; Hewitt, J. E.; Ahrens, M.; Cummings, V. J.: TERRESTRIALLY DERIVED SEDIMENT: HOW MUCH IS TOO MUCH FOR MARINE MACROBENTHIC COMMUNITIES?
- 8:30 AM **Armitage, A. R.**; Fong, P.: EFFECTS OF HABITAT-MODIFYING CRABS ON COMMUNITY STRUCTURE IN MUDDY AND SANDY TIDAL FLATS
- 8:45 AM **Althauser, L. L.**; Rose, K. A.: AN ECOSIM ANALYSIS OF AN ESTUARINE FOOD WEB: RESPONSE TO RIVER-FLOW RELATED PERTURBATIONS
- 9:00 AM **Muehlstein, L. K.**; Beets, J. P.: STORM DISTURBANCE DECOUPLES A LINKAGE BETWEEN TROPICAL MARINE ECOSYSTEMS: CORAL REEFS AND SEAGRASSES
- 9:15 AM **Kolesar, S. E.**; Rose, K. A.; Breitburg, D. L.: MODELING THE EFFECTS OF HYPOXIA ON INTRAGUILD PREDATION BETWEEN CTENOPHORES AND FISH LARVAE IN A CHESAPEAKE BAY FOOD WEB
- 9:30 AM **Eyre, B. D.**; Ferguson, A. J.: THE EFFECT OF TRAWLING ON SEDIMENT DENITRIFICATION AND N-FIXATION IN MORETON BAY, AUSTRALIA

CS-07: Protected Areas and Reserves

Chair(s): Tom Shirley

Location: 4C3

- 8:00 AM **Valentine, J. F.**; Heck, K. L.; Peterson, B. P.; Beck, M. W.; Blackmon, D.; Christian, J. C.; Goecker, M.; Fioravanti, G.; Kroutil, R.: TROPHIC EXCHANGE AT THE CORAL REEF-SEAGRASS INTERFACE: A MULTITROPHIC LEVEL TEST OF EFFECTS OF OVERFISHING ON CORAL REEF FOOD WEBS
- 8:15 AM **Rowe, L.**; Wilber, P.; Edmiston, L.; Diaz, R. J.: EVALUATING THE HUMAN IMPACTS ON AND ECOLOGICAL ROLE OF ESTUARINE BENTHIC HABITATS IN APALACHICOLA BAY, FLORIDA, U.S.A.
- 8:30 AM **Beever, J. W.**; Bryant, M.: SOUTHWEST FLORIDA COASTAL CONSERVATION CORRIDOR PLAN
- 8:45 AM **Frontera Pizá, T. M.**; Remírez toro, G. I.; Brinson, M.; Christian, R.; Minnigh, H. A.: GROWTH AND EXTENT OF THE MANGROVE FOREST IN HUMAN DOMINATED AREAS: LA PARGUERA, PUERTO RICO.
- 9:00 AM **Shirley, T. C.**; Taggart, S. J.; Mondragon, J.; O'Clair, C. E.: PATTERNS OF APPENDAGE DAMAGE OF DUNGENESS CRABS FOLLOWING CLOSURE OF COMMERCIAL FISHING IN GLACIER BAY NATIONAL PARK

9:15 AM **Taggart, S. J.**; Shirley, T. C.; O'Clair, C. E.: DRAMATIC SHIFT IN THE SIZE FREQUENCY DISTRIBUTION OF DUNGENESS CRABS FOLLOWING CLOSURE OF COMMERCIAL FISHING IN GLACIER BAY NATIONAL PARK

9:30 AM **Nielsen, J. K.**; Taggart, S. J.; Shirley, T. C.; Mondragon, J. M.; Andrews, A. G.: TANNER CRAB NURSERY AREAS IN GLACIER BAY, ALASKA: IMPLICATIONS FOR MARINE RESERVE DESIGN

CS-08: Ecosystem Restoration: Comparisons of Approaches and Assessments

Chair(s): Bill Taylor

Location: 4C4

- 8:00 AM **Anderson, S. S.**: TESTING THE FIELD OF DREAMS HYPOTHESIS: IF WE BUILD IT, WILL THEY COME?
- 8:15 AM **Magnien, R.**; Goshorn, D.; Parham, T.; Karrh, L.; Naylor, M.; Michael, B.; Trice, M.; Halka, J.: INNOVATIVE RESTORATION AND ASSESSMENT METHODOLOGIES FOR SHALLOW-WATER ESTUARINE HABITATS
- 8:30 AM **Orth, R. J.**; Marion, S. R.; Moore, K. A.; Combs, D. C.; Wilcox, D. J.; van Montfrans, J.; Canuel, E. A.: A LARGE SCALE SEAGRASS RESTORATION PROGRAM IN VIRGINIA'S COASTAL LAGOONS: CHALLENGES AND OPPORTUNITIES
- 8:45 AM **Breaux, A. M.**; Martindale, M.: ASSESSMENT METHODOLOGIES FOR WETLANDS IN THE SAN FRANCISCO BAY REGION
- 9:00 AM **Nur, N.**; Stralberg, D.; Warnock, N.; Spautz, H.; Page, G.: A HABITAT CONVERSION MODEL FOR SAN FRANCISCO BAY: PREDICTING THE IMPACTS ON BIRD POPULATIONS
- 9:15 AM **Morzarria-Luna, H.**; Zedler, J. B.: DO HYDROCHORY AND SEED BANKS LIMIT TIDAL MARSH RESTORATION?
- 9:30 AM **Gray, A.**; Simenstad, C. A.; Beauchamp, D. A.; Bottom, D. L.; Wissmar, R. C.: HOW A BIOENERGETIC MODEL HELPS ASSESS RESTORATION SUCCESS AT THE SALMON RIVER ESTUARY
- 10:15 AM **Shreffler, D.**; Johnson, R.; Rot, B.: A VISION OF UNDEVELOPMENT: RESTORATION OF JIMMYCOMELATELY CREEK AND ESTUARY
- 10:30 AM **Taylor, W. J.**; Cordell, J.; Rummel, B. W.; Berkompas, B.; Gilbert, J.: SAMPLING TIDAL FLUX OF INVERTEBRATE PREY ORGANISMS FROM A CONSTRUCTED ESTUARINE HABITAT RESTORATION SITE TO ASSESS DESIGN PERFORMANCE.
- 10:45 AM **Craft, C. B.**; Sacco, J. N.: LONG-TERM SUCCESSION OF BENTHIC INFRAUNA COMMUNITIES ON CONSTRUCTED S. ALTERNIFLORA MARSHES
- 11:00 AM **Smith, S. M.**; Portnoy, J. W.; Farris, C. N.; Roman, C. T.; James-Pirri, M. J.: RESPONSES OF *PHRAGMITES AUSTRALIS* TO TIDAL RESTORATION OF A DIKED SALT MARSH IN CAPE COD NATIONAL SEASHORE
- 11:15 AM **Wolfe, R. K.**; Adams, A.; Newton, M.: WETLAND RESTORATION IMPACTS ON FISH ASSEMBLAGES IN OLIGOHALINE STREAMS IN SOUTHWESTERN FLORIDA
- 11:30 AM **Yozzo, D. J.**; Laska, M. S.; Peter, N.: RESTORATION PROGRAM ASSESSMENT FOR THE NATIONAL ESTUARINE RESEARCH RESERVE SYSTEM (NERRS)

CS-09: Role of Estuaries as Nurseries Sustaining Fisheries

Chair(s): Anne Shafer

Location: 2A

1:15 PM	Polivka, K. : RESOURCES AND RISKS AFFECT THE PROFITABILITY OF ESTUARINE HABITATS FOR EARLY LIFE STAGES OF OPPORTUNIST FISH
1:30 PM	Cabral, H. N. ; Costa, M. J.: THE IMPACT OF FISHERIES WITHIN COASTAL AND ESTUARINE NURSERY AREAS IN THE PORTUGUESE COAST: WILL SUSTAINABILITY BE A REALITY OR A FICTION?
1:45 PM	MacRae, P. S. ; Cowan Jr., J. H.: CHARACTERIZING FISH COMMUNITY STRUCTURE IN RELATION TO HYDROGRAPHIC VARIABLES AND MARSH LOSS IN BARATARIA BAY, LOUISIANA
2:00 PM	Switzer, T. S. ; Baltz, D. M.: UTILIZATION OF ESTUARINE NURSERIES BY TWO SYMPATRIC TONGUEFISHES (<i>SYMPHURUS</i> : <i>CYNOGLOSSIDAE</i>) IN BARATARIA BAY, LOUISIANA, USA
2:15 PM	Waggy, G. L. ; Peterson, M. S.: ASPECTS OF EARLY LIFE HISTORY AND REPRODUCTION OF SILVER PERCH, <i>BAIRDIELLA CHRYSOURA</i> , FROM NORTH-CENTRAL GULF OF MEXICO ESTUARIES
2:30 PM	Hay, D. E. ; McCarter, P. B.; Beacham, T.: ESTUARIES, IMPRINTING, AND POPULATION STRUCTURE OF THE ANADROMOUS EULACHONS (<i>THALEICHTHYS PACIFICUS</i>) IN THE EASTERN PACIFIC OCEAN
2:45 PM	Metelev, E. A. ; Marchenko, S. L.: SPAWNING ECOLOGY OF ARCTIC TOOTHED SMELT (<i>OSMERUS MORDAX DENTEX</i>) IN AVEKOV RIVER OF GHIZHIGA BAY
3:30 PM	Smirnov, A. A. : CASUAL RELATIONSHIP BETWEEN BEGINNING OF SPAWNING OF GHIZHIGA-KAMCHATka HERRING POPULATION AND OPENING THAWING RIVERS NEAR SPAWNING AREAS (ESTUARY ZONES)
3:45 PM	Dailey, W. H. ; Landry, Jr., A. M.: ICHTHYOFAUNAL ASSEMBLAGES AND SPECIES DIVERSITY IN TEXAS ESTUARINE HABITAT SAMPLED FOR YOUNG-OF-THE-YEAR TARPOON (<i>MEGALOPS ATLANTICUS</i>)
4:00 PM	Litvin, S. Y. ; Weinstein, M. P.; Guida, V. G.: HABITAT UTILIZATION PATTERNS OF A JUVENILE MARINE TRANSIENT: EFFECTS ON BIOCHEMICAL CONDITION AND IMPLICATIONS ON THE VALUE OF HABITAT FOR FISH PRODUCTION
4:15 PM	McLain, J. S.; Castillo, G. C. : FALL-RUN FRY CHINOOK SALMON RELATIVE ABUNDANCE AND LENGTH COMPOSITION IN THE WEST SACRAMENTO-SAN JOAQUIN DELTA
4:30 PM	Semmens, B. X. : METER-SCALE HABITAT SELECTION OF CHINOOK SALMON SMOLTS (<i>ONCORHYNCHUS Tshawytscha</i>) IN WILLAPA BAY, WASHINGTON
4:45 PM	Bretsch, K. P. ; Allen, D. M.: NEKTON BEHAVIOR IN SALT MARSH INTERTIDAL CREEKS: PATTERNS AND MECHANISMS OF TIDAL MOVEMENT

CS-10: Land Use Linkages to Estuarine Conditions

Chair(s): Bruce Williamson, Chet Rakocinski, Valerie Brady

Location: 4C4

1:15 PM	Hale, S. S. ; Paul, J. F.; Heltshe, J. F.: FROM LANDSCAPE ECOLOGY OF WATERSHEDS TO BENTHIC ECOLOGY OF ESTUARIES
1:30 PM	Rakocinski, C. F. ; Zapfe, G. A.: MACROBENTHIC-PROCESS INDICATORS OF RESIDENTIAL LAND-USE IN THE GRAND BAY NATIONAL ESTUARINE RESEARCH RESERVE.
1:45 PM	Williamson, R. B. ; Becker, K.; Seyb, R.; Green, M. O.: PROTECTION AND RESTORATION OF ESTUARINE ECOSYSTEMS FROM STORMWATER-DERIVED CONTAMINATION IN AUCKLAND, NEW ZEALAND
2:00 PM	Dusterhoff, S. R. ; Schwarz, K.; Haltiner, J.: WATERSHED MANAGEMENT, EROSION CONTROL, AND RESTORATION TO REDUCE ESTUARINE SEDIMENT LOADING AND PRESERVE HABITAT AT MORRO BAY, CALIFORNIA
2:15 PM	Green, M. O. ; Williamson, R. B.: PREDICTION OF DECADAL-SCALE CONTAMINANT ACCUMULATION IN ESTUARIES TO SUPPORT PLANNING FOR URBAN DEVELOPMENT
2:30 PM	Hayes, K. C. ; Lewitus, A. J.; Shurleff, A. S.: AN ASSESSMENT OF SOUTH CAROLINA COASTAL WATERS: IS EUTROPHICATION A PROBLEM?
2:45 PM	Scarborough, R. W. : NITROGEN IN THE ST. JONES RIVER ESTUARY: SOURCE IDENTIFICATION AND TRANSPORT MODELING
3:30 PM	Apple, J. K. ; del Giorgio, P. A.: THE EFFECT OF AGRICULTURAL NUTRIENT LOADING ON BACTERIOPLANKTON COMMUNITY METABOLISM IN MONIE BAY NATIONAL ESTUARINE RESEARCH RESERVE
3:45 PM	Brown-Peterson, N. J. ; Brouwer, M.; Larkin, P.; Manning, C. S.; Denslow, N.: MOLECULAR INDICATORS OF HYPOXIC AND CYCLIC DISSOLVED OXYGEN STRESS IN BLUE CRAB, <i>CALLINECTES SAPIDUS</i>
4:00 PM	Kelly, J. R. ; Yurista, P. M.; Morrice, J. A.; Cotter, A. M.; Peterson, G. S.; Hollenhorst, T.: FINDING THE SCALES OF OPEN NEARSHORE ECOSYSTEM RESPONSE TO LANDSCAPE CHARACTER AND TRIBUTARY INPUTS, A GREAT LAKES COAST-WIDE EXPERIENCE
4:15 PM	Yeo, I. ; Gordon, S. I.: HOW DOES LAND-USE CHANGE IN THE WATERSHED INFLUENCE THE CHARACTERISTICS OF THE ESTUARY? — LESSONS FROM THE OLD WOMAN CREEK ESTUARY, OHIO
4:30 PM	Mumford, T. F. ; Wyllie-Echeverria, S.; Thom, R. T.; Penttila, D. E.: LOSS OF EELGRASS (<i>ZOSTERA MARINA</i> L.) IN SMALL EMBAYMENTS, PUGET SOUND, WASHINGTON: SIMILARITY TO WORLDWIDE EARLY SIGNS OF COLLAPSE
4:45 PM	Gallegos, C. L. ; Weller, D.; Baker, M.; Biber, P. D.; Kenworthy, W. J.; Fonseca, M. S.: EVALUATION OF AN OPTICALLY BASED INDICATOR OF ESTUARINE WATER CLARITY: LINKS TO WATERSHED LAND USE

SPS-14: Plankton, Physics and Production: Linking Biology and Physics in Meso-Scale Features

Chair(s):	Elizabeth North, Edward Houde, Raleigh Hood, Michael Roman
Location:	2A
8:00 AM	Houde, E. D. : FISH RECRUITMENTS: BIOLOGY, PHYSICS AND FEATURES IN ESTUARINE ECOSYSTEMS
8:15 AM	Taylor, J. C. ; Rand, P. S.: SPATIAL STRUCTURING OF ANCHOVY BIOMASS DURING EPISODIC HYPOXIC DISTURBANCES
8:30 AM	Dodson, J. J. ; Lecomte, F.: ESTUARINE MESO-SCALE FEATURES AND MICRO-EVOLUTIONARY PROCESSES: THE SYMPATRIC RAINBOW SMELT POPULATIONS (<i>OSMERUS MORDAX</i>) OF THE ST. LAWRENCE ESTUARY, CANADA
8:45 AM	Winkler, G. ; Simons, R.; Monismith, S.; Johnson, L. E.; Saucier, F.; Dodson, J. J.: SWIMMING WITH THE TIDES: POSITION MAINTENANCE OF MESOPLANKTON IN THE HIGHLY DYNAMIC ESTUARY OF THE ST. LAWRENCE RIVER
9:00 AM	Benfield, M. C. ; Trevorrow, M. V.; Mackas, D. L.; Yelland, D.; Keenan, S. F.; Tsurumi, M.; Campbell, R. W.; Tuele, D.: BIOPHYSICAL FOCUSING OF ZOOPLANKTON AT A FJORD SILL
9:15 AM	Shanks, A. L. : UPWELLING DOWNWELLING AND THE CROSS-SHELF DISPERSAL OF LARVAE
9:30 AM	Simons, R. D. ; Monismith, S. G.; Winkler, G.; Johnson, L. E.; Saucier, F. J.: MODELING THE PHYSICAL AND BIOLOGICAL MECHANISMS FOR ZOOPLANKTON RETENTION IN THE ESTUARINE TRANSITION ZONE OF ST. LAWRENCE ESTUARY
10:15 AM	Roman, M. R. ; Zhang, X.; McGilliard, C.; Boicourt, W.: PHYSICAL CONTROLS OF PLANKTON "HOT SPOTS" IN CHESAPEAKE BAY
10:30 AM	Kimmerer, W. J. : PARADOXES IN THE RESPONSE OF ZOOPLANKTON TO FRESHWATER FLOW IN THE SAN FRANCISCO ESTUARY
10:45 AM	Bochdansky, A. B. ; Bollens, S. M.: DISTRIBUTION, FEEDING AND REPRODUCTION OF THE ESTUARINE COPEPOD <i>ACARTIA</i> IN A PATCHY FOOD ENVIRONMENT.
11:00 AM	Rollwagen Bollens, G. C. ; Bollens, S. M.; Penry, D. L.: PROTOZOAN-METAZOAN LINKAGES IN THE SAN FRANCISCO ESTUARY PLANKTONIC FOOD WEB, 1997 – 2000
11:15 AM	Koepfler, E. ; Lewitus, A.; Madden, C.; Akman, O.; Tymowski, R.; Buzzelli, C.: SPATIAL-TEMPORAL CHARACTERIZATION OF MICROBIAL GROWTH PROCESSES AT NORTH INLET, SC BASED UPON TIME-SERIES DATAFLOW MEASUREMENTS.
11:30 AM	Crump, B. C. ; Hopkinson, C. S.; Baross, J. A.; Hobbie, J. E.: ESTUARINE BACTERIOPLANKTON: RESIDENCE TIME, GROWTH RATE AND COMMUNITY COMPOSITION

SPS-15: Assessing the Ecological Functions of Shallow Water Habitats in Estuarine-River Ecosystems

Chair(s):	Stuart Findlay, Chuck Nieder
Location:	3A
8:00 AM	Nieder, W. C. ; Findlay, S. E.; Bain, M.; Barnaba, E. M.; Eckerlin, G.; Hoskins, S.; Strayer, D.: EXTENT, DISTRIBUTION AND ECOLOGICAL FUNCTIONS OF SUBMERGED AQUATIC VEGETATION IN THE TIDAL FRESHWATER HUDSON RIVER
8:15 AM	Lewis, E. A. ; Wetzel, R. L.; Ralph, P. J.; Moore, K. A.; Anderson, I. C.: INVESTIGATION OF RELATIONSHIPS BETWEEN SHORT-TERM PHOTOSYNTHETIC PERFORMANCE AND LONG-TERM GROWTH OF <i>ZOSTERA MARINA</i>
8:30 AM	Turner, S.; Schwarz, A. : EXISTING AND POTENTIAL CONSTRAINTS TO SEAGRASS BIOMASS PRODUCTION IN NEW ZEALAND ESTUARIES
8:45 AM	Stevenson, J. C. : LINKAGES BETWEEN WATER QUALITY AND SUBMERSED AQUATIC VEGETATION (SAV) IN SHALLOW WATERS: THE EASTERN SHORE OF CHESAPEAKE BAY
9:00 AM	Pope, A. J. : SEAGRASS EXTENT AND DECOMPOSITION IN RELATION TO FRESHWATER FLOW AND MOUTH CLOSURES OF BAR-BLOCKED ESTUARIES IN SOUTHERN AUSTRALIA
9:15 AM	Rybicki, N. B. ; Landwehr, J. M.: ASSESSING CHANGES IN A SUBMERSED AQUATIC VEGETATION COMMUNITY FOLLOWING THE APPEARANCE OF AN EXOTIC IN AN ESTUARINE-RIVER WITH IMPROVING WATER QUALITY
9:30 AM	Caraco, N. F. : CONTRASTING IMPACTS OF A NATIVE AND ALIEN MACROPHYTE ON DISSOLVED OXYGEN IN A LARGE RIVER
10:15 AM	Marion, S. ; Orth, R. J.: HABITAT FRAGMENTATION EFFECTS ON INVERTEBRATE MACROFAUNAL DENSITIES AND PRODUCTION IN SEAGRASS (<i>ZOSTERA MARINA</i>): ROLES OF PATCH SIZE, CONNECTIVITY, AND EDGE.
10:30 AM	Turner, S. J.; Hewitt, J. E. ; Van Houte, K.; Pilditch, C. A.: THE INFLUENCE OF SEAGRASS LANDSCAPES ON BENTHIC MACROFAUNA IN NEW ZEALAND ESTUARIES
10:45 AM	Bell, S. S. ; Hall, M. O.; Fonseca, M. S.: SEAGRASS-FAUNAL RELATIONSHIPS: WHAT HAVE WE LEARNED AFTER 15 YEARS OF STUDY?
11:00 AM	Adams, A. J. ; Wolfe, R. K.; Newton, M. E.: EXAMINING EFFECTS OF FRESHWATER FLOW ALTERATIONS ON SEAGRASS-ASSOCIATED FISHES IN CHARLOTTE HARBOR, FL
11:15 AM	Kanouse, S. ; La Peyre, M. K.; Nyman, J. A.: NEKTON USE OF THREE BRACKISH MARSH POND MICROHABITAT TYPES
11:30 AM	Powers, M. J. ; Peterson, C. H.: THE INFLUENCE OF HABITAT SETTING ON SPATIAL AND TEMPORAL VALUE OF FISHERIES HABITAT: SITE-SPECIFIC PATTERNS IN SCIAENID RECRUITMENT

SPS-16: Impacts of Shoreline Modifications on the Estuarine Nearshore

Chair(s): Melora Haas, Greg Williams

Location: 2B

- 8:00 AM **Fresh, K. L.**: STUDYING AND MANAGING IMPACTS ON SHORELINES IN PUGET SOUND: THE CHALLENGE OF CUMULATIVE IMPACTS
- 8:30 AM **Daborn, G. R.**; Brylinsky, M.; Wells, P. G.; Amos, C. L.: RESPONSES OF MACROTIDAL ESTUARIES TO TIDAL RESTRICTIONS IN THE BAY OF FUNDY SYSTEM, CANADA.
- 8:45 AM **Newell, R. I.**; Koch, E. W.; Hood, R. R.: THE EFFECT OF MAN-MADE BREAKWATERS AND OYSTER REEFS ON ADJACENT SEAGRASSES
- 9:00 AM **Roland, R. M.**; Douglass, D. L.; Stout, J. P.: BULKHEADS ON URBAN ESTUARINE SHORELINES ON THE GULF COAST
- 9:15 AM **Shafer, D. J.**: DESIGN AND CONSTRUCTION OF RESIDENTIAL DOCKS TO MINIMIZE SEAGRASS IMPACTS
- 9:30 AM **Sobociński, K. L.**; Cordell, J. R.; Simenstad, C. A.; Brennan, J.: THE IMPACT OF SHORELINE ARMORING ON UPPER BEACH FAUNA OF CENTRAL PUGET SOUND
- 10:15 AM **Williams, G. D.**; Shreffler, D. K.; Thom, R. M.; Toohey, J.: PREDATION RISK OF JUVENILE SALMON NEAR OVERWATER STRUCTURES: FIELD OBSERVATIONS AND RECOMMENDED PROTOCOLS
- 10:30 AM **Bozek, C. M.**; Burdick, D. M.: IMPACTS OF SEAWALLS ON SALT MARSH PLANT COMMUNITIES
- 10:45 AM **Haas, M. E.**; Cordell, J. R.; Simenstad, C. A.: EFFECTS OF LARGE OVERWATER STRUCTURES ON EPIBENTHIC JUVENILE SALMON PREY ASSEMBLAGES IN PUGET SOUND, WASHINGTON
- 11:00 AM **Robinson, M. H.**; Alexander, C.: GIS AND FIELD-BASED ANALYSIS OF THE INDIVIDUAL AND CUMULATIVE IMPACTS OF RECREATIONAL DOCKS ON THE SALT MARSHES OF GEORGIA
- 11:15 AM **Sanger, D. M.**; Holland, A. F.: EVALUATION OF THE IMPACTS OF DOCK STRUCTURES ON SOUTH CAROLINA ESTUARINE ENVIRONMENTS WITH AN EMPHASIS ON *SPARTINA ALTERNIFLORA* SHADING EFFECTS
- 11:30 AM **Chigbu, P.**; Comyns, B. H.; Peterson, M. S.; Remata, H.: INFLUENCE OF HABITAT ALTERATION AND PHYSICO-CHEMICAL FACTORS ON ABUNDANCE AND DISTRIBUTION OF MYSIDS IN MARSH-EDGE HABITATS OF THE MISSISSIPPI SOUND

SPS-17: New Conceptual Approaches for the Assessment and Evaluation of Seagrass Ecosystems Under Stress

Chair(s): Sandy Wyllie-Echeverria, Kurt L. Fresh

Location: 3B

- 10:15 AM **Waycott, M.**: GENETIC FACTORS IN SEAGRASS ECOSYSTEMS, IMPLICATIONS TO MANAGEMENT
- 10:30 AM **Procaccini, G.**: MEADOW-SCALE GENE FLOW AND GENETIC STRUCTURE IN MEDITERRANEAN SEAGRASSES

- 10:45 AM **Boese, B. L.**; Robbins, B. D.: NATURAL FACTORS CONTROLLING INTERTIDAL EELGRASS: IS THIS AS HIGH AS WE CAN GET?
- 11:00 AM **Borde, A. B.**; Thom, R. M.: PARTITIONING FACTORS INFLUENCING HISTORICAL, SPATIAL AND ANNUAL VARIABILITY IN EELGRASS (*ZOSTERA MARINA* L.) MEADOWS IN THE PACIFIC NORTHWEST
- 11:15 AM **Specht, D. T.**: INTERTIDAL SEDIMENT TEMPERATURE VARIANCE AS A POSSIBLE HABITAT LIMITING FACTOR FOR EELGRASSES *ZOSTERA MARINA* AND *ZOSTERA JAPONICA* IN YAQUINA BAY, OR
- 11:30 AM **Iizumi, H.**; Mukai, H.; Kishi, M. J.; Akabane, H.: EFFECTS OF LAND USE PRACTICES ON WATER QUALITY ASSOCIATED WITH SEAGRASS BEDS NEAR A RIVER MOUTH: NITRATE QUANTITY VERSUS CONCENTRATION
- 1:15 PM **Pergent, G.**; Pergent-Martini, C.; Ferrat, L.: *POSIDONIA OCEANICA* RESPONSES TO NATURAL ENVIRONMENTAL CONDITIONS AND ANTHROPOGENIC ACTIVITIES IN THE MEDITERRANEAN SEA
- 1:30 PM **Biber, P. D.**; Paerl, H. W.; Kenworthy, W. J.; Fonseca, M. S.; Gallegos, C. L.: LINKING WATER QUALITY TO SAV HEALTH: INDICATORS OF ESTUARINE CONDITION
- 1:45 PM **Onuf, C. P.**: CAN CONTINUOUS MONITORING OF TURBIDITY AND CHLOROPHYLL EXPLAIN CAUSES OF LIGHT ATTENUATION WHERE SEAGRASSES HAVE FAILED TO RECOVER FROM THE TEXAS BROWN TIDE?
- 2:00 PM **Heck, K. L.**; Valentine, J. F.; Pennock, J. R.; Spitzer, P. M.; Chaplin, G.: PREDICTING THE EFFECTS OF EUTROPHICATION ON SEAGRASS MEADOWS: THE IMPORTANCE OF MANIPULATIVE EXPERIMENTS AND THE UNDERAPPRECIATED ROLE OF ALGAL HERBIVORES
- 2:15 PM **Boettcher, A. A.**; Tanner, C. E.; Arnold, T. M.: CHEMICAL DEFENSE LOST? THE AFFECT OF CHANGING ENVIRONMENTS AND REDUCED PHENOLIC METABOLISM ON SEAGRASS DISEASE RESISTANCE
- 2:30 PM **Jagtap, T. G.**; Ramaiah, N.; Charulata, S.; Suja, P.; Baksh, R.; Coutinho, F. B.: COULD ASSOCIATED MICROFLOARA BE A INDICATOR OF SEAGRASS ECOSYSTEMS UNDER STRESS?
- 2:45 PM **Durako, M. J.**; Hall, M. O.; Merello, M.: LANDSCAPE-SCALE APPROACHES TO THE ASSESSMENT OF SEAGRASSES IN A PERTURBED SUBTROPICAL ECOSYSTEM
- 3:30 PM **Pulich, Jr., W. M.**; Virnstein, R. W.; Wyllie-Echeverria, S.; Fletcher, R. S.; Berry, H. D.: DERIVING LANDSCAPE INDICATORS OF STRESS FOR THE SEAGRASS BIOME
- 3:45 PM **Santos, R.**; Cunha, A.: LANDSCAPE-SCALE DYNAMICS OF SEAGRASSES IN RESPONSE TO DISTURBANCES ASSOCIATED TO THE MIGRATION AND RELOCATION OF A LAGOON INLET
- 4:00 PM **Kenna, R. E.**; Hyndes, G. A.; Lavery, P.; Bastyan, G.: IS LANDSCAPE STRUCTURE SUFFICIENT TO EVALUATE THE SUCCESS OF SEAGRASS TRANSPLANTATIONS?
- 4:15 PM **Kenworthy, W. J.**; Schwarzschild, A. C.; Fonseca, M. S.; McNeese, P.; Krueger, C.: A NOVEL METHOD FOR RESTORING TROPICAL SEAGRASS MEADOWS BASED ON OUR UNDERSTANDING OF NUTRIENT CYCLING, DISTURBANCE ECOLOGY AND RECOVERY DYNAMICS.

4:30 PM	Fonseca, M. S. ; Whitfield, P. E.; Kenworthy, W. J.; Piniak, G.; Colby, D. R.; Julius, B. E.; Fisher, G.: SPATIALLY EXPLICIT MODELS FOR DESCRIBING THE RESPONSE OF SEAGRASS AND OTHER BENTHIC RESOURCES TO DISTURBANCE	SPS-19: Biocomplexity in Mangrove Forests: an Indo-West Pacific vs. Atlantic-East Pacific Comparison
4:45 PM	Eldridge, P. M. ; Kaldy, J. E.: CARBON AND NITROGEN ALLOCATION MODEL FOR THE SUB-TROPICAL SEAGRASS <i>THALASSIA TESTUDINUM</i> AND THE TEMPERATE SEAGRASS <i>ZOSTERA MARINA</i> .	Chair(s): Ilka C. Feller, Norm Duke
		Location: 2B
1:15 PM	DeAngelis, D. L. : EFFECTS OF SPATIAL SCALE AND CONFIGURATION IN ESTUARINE POPULATION MODELS	1:15 PM Feller, I. C. ; Lovelock, C. E.; McKee, K. L.; Ball, M. C.; Ellis, J. I.: BIOCOMPLEXITY IN MANGROVE FORESTS: INDO-WEST PACIFIC VS. ATLANTIC-EAST PACIFIC COMPARISON OF THE EFFECTS OF NUTRIENT AVAILABILITY ON GROWTH AND HERBIVORY
1:45 PM	Lopez, C. B. ; Lucas, L. V.; Cloern, J. E.; Schraga, T. S.: SPATIAL VARIABILITY OF PHYTOPLANKTON DYNAMICS IN A TIDAL FLOODED ISLAND	1:30 PM Ball, M. C. ; Lovelock, C. E.: SALINITY AND SPECIATION IN MANGROVES
2:00 PM	Breitburg, D. L. ; Adamack, A.; Jordan, T. E.; Lung, W. S.; Rose, K. A.; Weller, D. E.: LINKING WATERSHED LAND USE, CLIMATE VARIABILITY, WATER QUALITY AND SURVIVAL OF EARLY LIFE STAGES OF FISH IN THE PATUXENT RIVER	1:45 PM Lovelock, C. E. ; Ball, M. C.; Feller, I. C.: PATTERNS IN PHOTOSYNTHETIC CARBON GAIN AND RESOURCE ALLOCATION UNDER NUTRIENT ENRICHMENT IN MANGROVE FORESTS IN TWO BIOGEOGRAPHIC REGIONS
2:15 PM	Schoch, C. ; Dethier, M.; Berry, H.: THE CONSEQUENCES OF SCALE IN PUGET SOUND: ASSESSING THE DISTRIBUTION OF BENTHIC POPULATIONS IN A COMPLEX ESTUARINE FJORD	2:00 PM Fogel, M. L. ; Wooller, M. J.; Jacobson, M.; Smallwood, B. J.: ATMOSPHERIC-BIOSPHERIC-GEOSPHERIC N CYCLES IN A MANGROVE FOREST, TWIN CAYS, BELIZE
2:30 PM	Hunt, H. L. ; Chant, R. J.: "SCALING UP" TO UNDERSTAND THE IMPORTANCE OF POSTLARVAL TRANSPORT OF BIVALVES IN AN ESTUARY	2:15 PM Fry, B. ; Cormier, N.: USING DELTA ¹⁵ N IN RED MANGROVES (<i>RHIZOPHORA MANGLE</i> L.) TO TRACK WATERSHED NITROGEN INPUTS TO THE COASTAL OCEAN ON OAHU, HAWAIIAN ISLANDS
2:45 PM	Whaley, S. D. ; Burd, J. J.: RELATIONSHIPS BETWEEN ESTUARINE HABITAT STRUCTURE AND THE SPATIAL DISTRIBUTION AND ABUNDANCE OF JUVENILE FISHERY SPECIES IN TAMPA BAY, FLORIDA, USA.	2:30 PM Manceira, J. E. ; Twilley, R. R.: TESTING THE ENERGY SIGNATURE HYPOTHESIS OF MANGROVES, USING CARBON ISOTOPE RATIO ANALYSIS
3:30 PM	Haas, H. L. ; Deegan, L. A.; Fry, B.; Logan, J. M.: USING CHEMICAL INDICATORS TO INVESTIGATE MESO SCALE ANIMAL MOVEMENT	2:45 PM Proffitt, C. E. ; Travis, S. E.; Devlin, D. J.: GENETIC AND REPRODUCTIVE ECOLOGY OF <i>RHIZOPHORA MANGLE</i> L IN FLORIDA: COUPLING ALBINO MUTATION FIELD SURVEYS WITH DNA ANALYSES OF POPULATIONS
3:45 PM	Butler, M. J. ; Dolan, T. W.: FROM INDIVIDUALS TO ECOSYSTEMS: A SPATIALLY-EXPLICIT, INDIVIDUAL-BASED MODEL OF LOBSTER RECRUITMENT	3:30 PM Duke, N. C. : ARE MANGROVES Affected BY INCREASED USE OF AGRICULTURAL CHEMICALS ON CATCHMENT LANDS? AN EASTERN CASE STUDY.
4:00 PM	Hood, W. G. : INDIRECT EFFECTS OF DIKES ON ESTUARINE TIDAL CHANNELS: THINKING OUTSIDE OF THE DIKE FOR HABITAT RESTORATION AND MONITORING.	3:45 PM Weis, J. S. ; Weis, P.: UTILIZATION OF MANGROVE ROOTS BY REEF FISHES IN THE WAKATobi MARINE PARK, INDONESIA
4:15 PM	White, D. ; Lewitus, A. J.; Porter, D. E.: SPATIO-TEMPORAL VARIABILITY AND TREND ANALYSIS OF WATER QUALITY AND PHYTOPLANKTON COMMUNITY STRUCTURE IN AN URBANIZED LAGOONAL ESTUARINE SYSTEM	4:00 PM Ambler, J. W. ; Gregg, T.: CONTRIBUTION OF FLOATING MATS TO WATER COLUMN AND ECOSYSTEM PRIMARY PRODUCTION IN A MANGROVE CHANNEL
4:30 PM	Reyes, E. : INFERRING APPROPRIATE SCALES FOR LANDSCAPE ESTUARINE SIMULATION MODELS	4:15 PM Polsenberg, J. F. : RIVERINE MANGROVE ESTUARIES AS BUFFER SYSTEMS FOR AGRICULTURALLY-DERIVED NITROGEN RUNOFF
4:45 PM	Boumans, R. M. ; Wilson, M.; Liu, S.; Costanza, R.: VALUATION OF ECOSYSTEM SERVICES PROVIDED BY COASTAL SYSTEMS,	4:30 PM Twilley, R. R.; Cormier, N.; Rivera-Monroy, V. H.; Casteneda, E.; Mancera, E.: ABOVE- AND BELOWGROUND PRODUCTIVITY ALONG FERTILITY GRADIENTS IN MANGROVE FORESTS OF SOUTH FLORIDA AND MICRONESIA
		4:45 PM Jacobson, M. E. ; Feller, I. C.; Fogel, M. L.; Frischer, M. E.; Lee, C.; Romero, I.; Thornton, D.; Rudnick, G.; Smallwood, B. J.; Vargas, M.; Wooller, M.: A COMPARISON OF TREE AND MICROBIAL NUTRIENT LIMITATION IN A MANGROVE SYSTEM IN BELIZE.

SYM-04: Global Climate Change and Climate Variability, Impacts on Estuaries

Chair(s): Jan Newton

Location: 4C2

8:00 AM	Wallace, J. M. : THE DOMINANT PATTERNS OF CLIMATE VARIABILITY
8:30 AM	Harrison, D. E. : THE GLOBAL OCEAN AT THE LAND'S EDGE
8:45 AM	Mote, P. M. ; Mantua, N. J.: COASTAL TEMPERATURES AND UPWELLING IN A WARMER FUTURE
9:00 AM	Montagna, P. A. ; Morehead, S.; Russell, M.: TEMPERATURE INCREASES CAN DECREASE DISSOLVED OXYGEN IN ESTUARINE WATERS
9:15 AM	Lehman, P. W. : MECHANISTIC PATHWAYS THROUGH WHICH CLIMATE INFLUENCED LOWER FOOD WEB PRODUCTION IN NORTHERN SAN FRANCISCO BAY ESTUARY
9:30 AM	Boesch, D. F. ; Giblin, A. E.: IMPLICATIONS OF CLIMATE CHANGE FOR ESTUARINE BIOCOMPLEXITY
10:15 AM	Wilson, B. D. ; Madsen, J. A.; Martin, R. E.; Scarborough, R. W.: THE PALEO-ENVIRONMENTAL HISTORY OF THE ST. JONES ESTUARY, DE: PRE-HOLOCENE TO PRESENT
10:30 AM	Savarese, M. ; Tolley, S. G.; Volety, A. K.: LATE HOLOCENE HISTORY OF OYSTER REEF DEVELOPMENT IN SOUTHWEST FLORIDA: IMPLICATIONS FOR MANAGEMENT AND FUTURE COASTAL ENVIRONMENTAL CHANGE
10:45 AM	Rybicky, J. M. ; Day, J. W.: SAVING THE MERCHANTS OF VENICE, BUT AT WHAT COST TO WETLANDS IN THE VENICE LAGOON?
11:00 AM	Maxwell, S. ; Rybicky, J.: PROJECTED SEA-LEVEL RISE AND STABILITY OF A HYDROLOGICALLY ALTERED PACIFIC NORTHWEST ESTUARY
11:15 AM	Callaway, J. C. : SEDIMENT ACCRETION AND SHALLOW COMPACTION IN SAN FRANCISCO BAY SALT MARSHES
11:30 AM	Koch, E. W. ; Stevenson, J. C.: LINKING SEA LEVEL RISE AND SEAGRASS DISTRIBUTION VIA MARSH RETREAT
1:15 PM	Alber, M. ; Cronin, T.; Giblin, A.; Howarth, R.; Jay, D.; Justic, D.; Kimmerer, W.; Knowles, N.; Montagna, P.; Najjar, R.; Peterson, B.; Scavia, D.; Ulanowicz, R.; Walker, H.: EFFECTS OF CLIMATE-INDUCED CHANGES OF FRESHWATER INFLOW ON ESTUARIES: REPORT OF THE ERF BIOCOMPLEXITY WORKING GROUP
1:30 PM	Royer, T. C. ; Grosch, C. E.: NORTHEAST PACIFIC FRESHWATER DISCHARGE; PAST AND FUTURE
1:45 PM	Vorosmarty, C. J. : ANTHROPOGENIC DISTURBANCE OF THE TERRESTRIAL WATER SYSTEM: A SEARCH FOR MAUNA LOA
2:00 PM	Nelson, B. W. : SEASONAL VARIATIONS IN TIDAL DYNAMICS IN RANGOON RIVER, MYANMAR
2:15 PM	Justic, D. ; Rabalais, N. N.; Turner, R. E.: SIMULATED RESPONSES OF THE GULF OF MEXICO HYPOXIA TO VARIATIONS IN CLIMATE AND ANTHROPOGENIC NUTRIENT LOADING
2:30 PM	Giblin, A. E. ; Banta, G. T.; Tucker, J.; Hopkinson, C. S.: POTENTIAL EFFECTS OF VARIATIONS IN FRESHWATER DISCHARGE ON THE NITROGEN CYCLE IN THE OLIGOHALINE ZONE OF ESTUARIES

2:45 PM	Thessen, A. E. ; Stoecker, D. K.; Boicourt, B. C.: CHESAPEAKE BAY TRIBUTARIES DURING THE SPRING DROUGHT OF 2002: A TEMPORARY RETURN TO LESS EUTROPHIC CONDITIONS
3:30 PM	Jamieson, G. S. : GLOBAL CLIMATE CHANGE AND SOME POTENTIAL IMPLICATIONS ON INVASIVE SPECIES IN THE NORTHEAST PACIFIC OCEAN
3:45 PM	Mendelsohn, I. A. ; McKee, K. L.; Lin, Q.; Hester, M. W.: SUDDEN SALT MARSH DIEBACK IN THE NORTHERN GULF OF MEXICO: A POTENTIAL CLIMATE CHANGE SCENARIO
4:00 PM	Williams, S. L. ; Lieberman, C. H.; Johnson, M. R.: CHANGES IN SEAGRASS DISTRIBUTIONS DURING AN EL NIÑO EVENT & CONSEQUENCES FOR SECONDARY PRODUCTION
4:15 PM	Newton, J. A. ; Horner, R. A.; Siegel, E. J.; Hickey, B. M.: OCEANIC CONTROL OF ESTUARINE PHYTOPLANKTON SPECIES COMPOSITION AND ABUNDANCE: WHAT DOES A VARIABLE OCEAN PORTEND?
4:30 PM	Kimmel, D. G. ; Roman, M. R.: WEATHER PATTERNS INFLUENCE MESOZOOPLANKTON DYNAMICS IN THE CHESAPEAKE BAY: IMPLICATIONS FOR CLIMATE CHANGE
4:45 PM	Bennett, W. A. : CLIMATE CHANGE AND FISH POPULATIONS OF THE SAN FRANCISCO ESTUARY: A FRAMEWORK FOR ASSESSING DIRECT AND INDIRECT EFFECTS

SYM-05: Dynamics of Estuarine Particles

Chair(s): Larry Sanford, Carl Friedrichs

Location: 4C3

10:15 AM	Sanford, L. P. ; Friedrichs, C. T.: PARTICLE DYNAMICS IN ESTUARIES: A REVIEW
10:45 AM	Schaffner, L. C. : EFFECTS OF MACROFAUNA ON PARTICLE DYNAMICS CHANGE ALONG THE ESTUARINE GRADIENT.
11:00 AM	Widdows, J. ; Brinsley, M. D.; Wood, R. G.: IMPACT OF ECOSYSTEM ENGINEERS ON ESTUARINE SEDIMENT DYNAMICS
11:15 AM	Parsons, J. D. : GRAVITATIONAL STABILITY OF FINE-GRAINED SUSPENSIONS
11:30 AM	Scully, M. E. ; Friedrichs, C. T.: OBSERVATIONS OF SUSPENDED SEDIMENT-INDUCED STRATIFICATION IN A PARTIALLY MIXED ESTUARY
1:15 PM	Agrawal, Y. C. ; Pottsmith, H. C.: MEASURING MARINE PARTICLE PHYSICAL PROPERTIES - TECHNOLOGY, LIMITATIONS, DATA
1:30 PM	Grant, J. ; Xizhu, Y.: DEPOSITION AND RESUSPENSION OF BIODEPOSITS: LABORATORY AND FIELD EXPERIMENTS WITH BLUE MUSSELS
1:45 PM	Jago, C. F. ; Jones, S. E.: TURBULENCE CONTROL OF VERTICAL AND LATERAL FLUXES OF SUSPENDED MATTER
2:00 PM	Schoellhamer, D. H. ; Ganju, N. K.; Gartner, J. W.; Murrell, M. C.; Wright, S. A.: SEASONAL AND LONGITUDINAL HOMOGENEITY OF SUSPENDED SEDIMENT IN SAN FRANCISCO BAY, CALIFORNIA
2:15 PM	Kineke, G. C. ; Milligan, T. G.; Geyer, W. R.: VARIABLE PARTICLE CHARACTERISTICS AT ESTUARINE FRONTS

2:30 PM	Orton, P. M. ; Jay, D. A.; Chisholm, T.: MULTI-CLASS SEDIMENT DYNAMICS AND EXPORT IN THE FRASER RIVER ESTUARY	Armstrong, S. J. ; Williams, D. F.; Dodson, N. J.: MODELING OF SALINE DIFFUSION FOR DROUGHT CONDITIONS IN THE WINYAH BAY ESTUARY, SC
2:45 PM	Burke, P. B. ; Rankin, K. L.; Bruno, M. S.: SEDIMENT TRANSPORT BETWEEN DEEP NAVIGATION CHANNELS AND SHALLOW SIDE BANKS UNDER VARIABLE TIDAL AND METEOROLOGICAL FORCINGS	Atilla, N. ; Rabalais, N. N.: PHYTOPLANKTON COMPOSITION (HPLC) THROUGH AN ANNUAL CYCLE OF HYPOXIA IN THE GULF OF MEXICO
3:30 PM	Uncles, R. J. ; Stephens, J. A.: TIDAL AND SEASONAL VARIABILITY OF THE TURBIDITY MAXIMUM IN THE HIGHLY TURBID HUMBER-OUSE ESTUARY	Babson, A. L. ; Kawase, M.: SEASONAL AND INTERANNUAL VARIABILITY IN THE CIRCULATION OF PUGET SOUND, WASHINGTON: A BOX MODEL STUDY
3:45 PM	Suttles, S. E. ; Sanford, L. P.; North, E. W.; Dickhudt, P.: DISTRIBUTION AND DYNAMICS OF SALINITY AND SUSPENDED SEDIMENTS IN THE CHANNEL OF UPPER CHESAPEAKE BAY, USA	Barton, J. L. ; Fairweather, P. G.: REDUNDANCY AND EFFECTIVENESS OF INDICATORS, CONVENTIONAL AND NOVEL, FOR ASSESSING ESTUARINE HEALTH IN SMALL TEMPERATE RIVERINE ESTUARIES IN SOUTHERN AUSTRALIA
4:00 PM	Fugate, D. C. ; Friedrichs, C. T.; Battista, G. M.; Sanford, L. P.: THE ROLE OF LATERAL SHOALS IN SEDIMENT TRANSPORT PROCESSES IN THE ETM REGION OF THE CHESAPEAKE BAY	Bernhard, A. E. ; Donn, T. M.; Stahl, D. A.: COMMUNITY STRUCTURE OF AMMONIA-OXIDIZING BACTERIA BASED ON THE FUNCTIONAL GENE, AMMONIA MONOOXYGENASE
4:15 PM	North, E. W. ; Sanford, L. P.; Chao, S. Y.; Hood, R. R.: MODELLING PARTICLE DYNAMICS IN AN ESTUARINE TURBIDITY MAXIMUM: EXAMINING THE EFFECTS OF WIND, FLOW, BATHYMETRY, AND AGGREGATION	Bilkovic, D. M. ; Berman, M. R.; Stanhope, D. M.; Hershner, C. H.: EVALUATING SHORELINE CONDITIONS AS INDICATORS OF ECOSYSTEM HEALTH
4:30 PM	Warner, J. C. ; Sherwood, C. R.; Geyer, W. R.; Lerczak, J. A.; Traykovski, P. A.: ESTUARINE TURBIDITY MAXIMUM DYNAMICS: SENSITIVITY TO TURBULENCE CLOSURE	Bos, J. K. ; Newton, J. A.; Eriksen, C. C.; Perry, M. J.: ON THE USE OF AUTONOMOUS SEAGLIDERS TO GAIN 4-D MEASUREMENTS OF BIO-OPTICAL AND CHEMICAL PARAMETERS AND PROCESSES THAT GOVERN THEM IN A NORTHWEST ESTUARY.
4:45 PM	Schutteelaars, H. M. ; Friedrichs, C. T.; De Swart, H. E.: FORMATION OF ESTUARINE TURBIDITY MAXIMA IN PARTIALLY MIXED ESTUARIES	Brooks, R. A. ; Sulak, K. J.: POTENTIAL FOOD RESOURCES IN THE SUWANNEE RIVER ESTUARY FOR JUVENILES OF THE THREATENED GULF STURGEON, <i>ACIPENSER OXYRINCHUS DESOTOI</i> .

Poster Session: Large-scale Processes

Location: Exhibit Hall 4E

Time: 5:30 PM – 6:30 PM

- Abdella, J. A.**; Paul, R. W.; Tanner, C. E.; Larsen, R. K.: LINKING NON-TIDAL STREAM HEALTH TO NUTRIENTS AND HARMFUL ALgal BLOOMS IN THE TIDAL ST. MARY'S RIVER, MARYLAND
- Akman, O.**; Koepfler, E.; Madden, C.; Lewitus, A.: MULTIVARIATE TIME SERIES ANALYSIS OF NESTED BIO-PHYSICAL DATA FROM NORTH INLET, SC
- Albertson, S. L.**; Newton, J.: MODELED VERSUS ACTUAL VARIATIONS IN RESPONSE TO CLIMATE IN A SOUTH PUGET SOUND ESTUARY OVER A FIVE-YEAR INTERVAL, 1996-2001
- Altieri, A. H.**; Parikh, M. S.; Warren, D. E.; Witman, J. D.: FROM PHYSIOLOGY TO FOOD-WEBS: INTEGRATING LARGE-SCALE FIELD STUDIES WITH COMPARATIVE PHYSIOLOGY TO PREDICT THE IMPACT OF COASTAL HYPOXIA ON BENTHIC COMMUNITIES
- Anderson, B. A.**; Moore, K. A.; Wilcox, D. J.; Neikirk, B. B.; Hoffman, F. A.: USE OF SPATIALLY INTENSIVE WATER SAMPLING SYSTEMS TO EVALUATE WATER QUALITY AS A MEASURE OF SAV RESTORATION POTENTIAL AND ATTAINMENT OF WATER QUALITY CRITERIA
- Anderson, G. H.**; Teague, P. D.; Walker, C.; Smith, T. J.: VARIATIONS IN MANGROVE PEAT SALINITY FROM APRIL 1997 TO APRIL 2003, HARNEY RIVER ESTUARY, EVERGLADES NATIONAL PARK: A SPATIAL ANALYSIS.
- Cardona-Olarre, P. P.**; Twilley, R. R.: PERFORMANCE OF MANGROVE SAPLINGS UNDER THE EFFECTS OF SALINITY AND HYDROPERIOD. PRELIMINARY RESULTS
- Chockalingam, C. V.**; Roegner, G. C.; Parr, L. A.: GENETIC HETEROGENEITY IN MEGALOPAE OF DUNGESSION CRAB.
- Cluer, B.**; Mullan, A.; Packer, D.; Bigford, T.; Griffin, K.: GRAVEL EXTRACTION ON THE WEST COAST: POLICY AND PRACTICE
- Coffin, A. W.**; Henkel, H.; Mounts, H.; Foster, A. M.; Smith, T. J.; Wertz, R. R.: CREATION OF A GEODATABASE OF THE DIGITAL AERIAL PHOTOGRAPHY ARCHIVES FOR THE GREATER EVERGLADES OF SOUTH FLORIDA AND THE SOUTHERN INLAND AND COASTAL SYSTEM
- Cole, M. L.**; Kroeger, K. D.; Valiela, I.: STABLE ISOTOPIC TRACERS OF WASTEWATER NITROGEN IN AQUATIC ECOSYSTEMS
- Cox, K. M.**; Newton, J. A.; Bos, J. K.: ON THE ORIGIN OF HARMFUL ALgal BLOOM SPECIES IN THE WILLAPA BAY, WA ESTUARY: PERSPECTIVES FROM ORHAB
- Day, R. H.**; Milan, B. J.; Shaw, R. F.; Wells, C. J.; Doyle, T. W.; Michot, T. C.; Handley, L. R.: MARSH TO MANGROVES: CONSEQUENCES OF HABITAT CHANGE IN LOUISIANA ESTUARIES

- Delano, K. A.**; Lipcius, R. N.; Hines, A. H.; Seitz, R. D.: HABITAT QUALITY AND METAPOPULATION DYNAMICS IN THE BALTIC CLAM
- Dettmann, E. H.**; Mason, L. B.: SPATIAL AND TEMPORAL RELATIONSHIPS BETWEEN TOTAL NITROGEN AND PLANKTONIC CHLOROPHYLL IN LONG ISLAND SOUND
- DeVries, P.**; Goetz, F.; Fresh, K.; Seiler, D.; Simenstad, C.: SALMON SMOLT OUTMIGRATION TIMING THROUGH A RESTORED TIDAL BARRIER AND MOON PHASE
- DeWitt, T. H.**; D'Andrea, A. F.: DISTRIBUTION AND ABUNDANCE OF BURROWING SHRIMP IN TWO OREGON ESTUARIES AND IMPLICATIONS FOR ESTUARINE-SCALE NITROGEN DYNAMICS
- Dierssen, H. M.**; Zimmerman , R. C.: BENTHIC ECOLOGY FROM SPACE: SEAGRASS NET PRIMARY PRODUCTION ACROSS THE BAHAMAS BANKS
- Dukes, A. W.**; Wenner, E. L.; Lizotte, M.: IMPROVING DISSOLVED OXYGEN DATA
- Dunsmuir, A. L.**; Corcoran, A.; Cebrian, J.: EFFECTS OF ANTHROPOGENIC EUTROPHICATION ON ESTUARINE MICROPHYTOBENTHIC COMMUNITIES: ARE NET COMMUNITY PRODUCTION AND RESPIRATION AFFECTED BY LIGHT AND NUTRIENTS
- Evans, C. T.**; Van Mooy, B.; Keil, R. G.; Greengrove, C.; Chin-Leo, G.: FACTORS AFFECTING THE COMPOSITION OF ACTIVE HETEROTROPHIC BACTERIAL COMMUNITIES IN COASTAL AND ESTUARINE WATERS
- Filipowicz, A. B.**; Sanger, D. M.: A BASELINE ENVIRONMENTAL ASSESSMENT OF HEADWATER TIDAL CREEKS OF THE MAY RIVER, BEAUFORT COUNTY, BLUFFTON, SOUTH CAROLINA.
- Fletcher, M.**; Porter, D. E.; Buckley, E.; Pietrafesa, L.; Xie, L.; Johnson, J.; Cothran, J.; Purvis, C.; White, D.: A DATA MANAGEMENT AND INFORMATION SYSTEM FOR DISSEMINATION OF HURRICANE STORM SURGE MODELS AND NEAR REAL-TIME DATA FROM THE CARO-COOPS MOORED BUOY NETWORK
- Fram, J. P.**; Martin, M.; Stacey, M. T.: FLUX OBSERVATIONS AT THE GOLDEN GATE
- Galavotti, H. S.**; Mills, A. L.: SPATIAL AND TEMPORAL GRADIENTS OF SEDIMENT DENITRIFICATION POTENTIAL IN A COASTAL STREAM
- Garono, R. J.**; Simenstad, C. A.; Robinson, R. R.; Sutherland, B.: MULTI-SCALED, HIERARCHICAL HABITAT MAPPING ON THE LOWER COLUMBIA RIVER (USA) USING REMOTE SENSING TECHNIQUES
- Hagy, J. D.**; Murrell, M. C.; Campbell, J. G.; Cherry, J. S.: SUSCEPTIBILITY OF A NORTHEASTERN GULF OF MEXICO ESTUARY TO HYPOXIA
- Harper, J. R.**; Saupe, S.; Morris, M. C.: SHOREZONE MAPPING IN THE GULF OF ALASKA: REGIONAL VARIATIONS
- Henry, M. L.**: HEATING AND COOLING ON A MUDFLAT: MODELING SNAIL TEMPERATURES
- Holden, P. A.**; LaMontagne, M. G.: BACTERIAL COMMUNITIES AS INDICATORS OF ESTUARINE ECOSYSTEM HEALTH AND LINKS TO WATERSHEDS
- Holderied, K.**; Pirhalla, D.; Ransibrahmanakul, V.; Stumpf, R. P.: APPLICATION OF IMPROVED SEAWIFS CHLOROPHYLL DATA IN ESTUARINE AND COASTAL WATERS
- Hunter, A. E.**; Cebrian, J.: THE APPLICATION OF GROWTH RECONSTRUCTION TECHNIQUES TO JUNCUS ROEMERIANUS.
- Ilami, F.**; Anderson, G. H.; Walker, C.; Smith, T. J.: SPATIAL AND TEMPORAL ANALYSIS OF SOIL PORE WATER NUTRIENTS IN AN ESTUARINE FRINGE MANGROVE FOREST, EVERGLADES NATIONAL PARK.
- Jancaitis, L. B.**; Petrone, C.; Natunewicz, C.; Epifanio, C. E.: GENESIS, MAINTENANCE, AND TRANSPORT OF PATCHES OF CRAB LARVAE
- Jett, C. E.**; Bledsoe, E. L.; Phlips, E. J.: AN ESTIMATION OF THE ZOOPLANKTON GRAZING IMPACT ON PHYTOPLANKTON COMMUNITY OF THE SUWANNEE ESTUARY, FLORIDA, U.S.A.
- Johnson, M. W.**; Heck Jr., K. L.: HABITAT FRAGMENTATION IN SEAGRASS ECOSYSTEMS OF THE NORTHERN GULF OF MEXICO
- Johnston, R. K.**; Wang, P. F.; Halkola, H.; Richter, K. E.; Skahill, B. E.; Choi, W. H.; Ambrose, R.; Roberts, M.; Kawase, M.: AN INTEGRATED WATERSHED RECEIVING WATER MODEL FOR SINCLAIR AND DYES INLET, PUGET SOUND, WASHINGTON, USA
- Kiesling, R. L.**: WATERSHED LINKAGES BETWEEN UPSTREAM WATER DEVELOPMENT, HYDROLOGIC ALTERATION, AND WATER QUALITY IN THE TIDAL REACH OF THE LOWER RIO GRANDE
- Lee, A. R.**; Pinckney, J. L.: A SPATIAL STUDY OF BENTHIC MICROALGAE IN AN INTERTIDAL SANDFLAT AT EAST BEACH IN GALVESTON BAY, TEXAS

COLLEGE OF OCEAN AND FISHERY SCIENCES UNIVERSITY OF WASHINGTON

Global knowledge, locally applied

- **School of Aquatic and Fishery Sciences**
- **School of Oceanography**
- **School of Marine Affairs**
- **Applied Physics Laboratory**
- **Washington Sea Grant Program**

www.cofs.washington.edu



- Lin, H. M.**; Peng, C. W.; Chang, C. S.: THE GEOMORPHOLOGICAL EFFECTS OF TYPHOONS ON THE ESTUARIES IN TAIWAN: A COMPARATIVE STUDY ON THE CHUNG-KANG RIVER AND SHUI-LIEN RIVER
- Machás, R.**; Cabaço, S.; Santos, R.; Peterson, B. J.; Kennedy, H. A.: EFFECT OF URBAN EFFLUENTS ON THE STABLE ISOTOPE SIGNALS OF ORGANIC MATTER AND *ZOSTERA NOLTHII*
- McCarthy, D.**; Timperley, M. H.; Williamson, R. B.; Kelly, S.: MONITORING CONFIRMS RAPID CHANGES IN ESTUARINE SEDIMENT CONTAMINANT CONCENTRATIONS IN AUCKLAND, NEW ZEALAND
- Michael, B. D.**; Magnien, R. E.; Trice, T. M.; Stankelis, R. M.; Boynton, W. R.; Preston, S. D.: SHALLOW WATER MONITORING DESIGN UTILIZING NEW TECHNOLOGIES TO ASSESS CHESAPEAKE BAY WATER QUALITY CRITERIA
- Milan, B. J.**; Shaw, R. F.: FISH AND DECAPOD CRUSTACEAN UTILIZATION OF SMOOTH CHORDGRASS AND BLACK MANGROVE MARSH EDGE IN CENTRAL LOUISIANA: IMPLICATIONS OF GLOBAL CLIMATIC CHANGE
- Miller, W. D.**; Harding, L. W.: INFLUENCE OF SYNOPTIC-SCALE CLIMATE VARIABILITY ON CHESAPEAKE BAY PHYTOPLANKTON BIOMASS
- Mir Gonzalez, D.**; Boyer, J. N.; Meeder, J.: THE EFFECT OF GROUNDWATER NUTRIENT INPUTS ON BENTHIC MACROPHYTE COMMUNITY STRUCTURE IN BISCAYNE BAY, FLORIDA
- Moncreiff, C. A.**; Caldwell, J. D.; Wells, T. M.; Nelson, D. B.; Blackburn, B. R.: PHYTOPLANKTON POPULATION DYNAMICS AND WATER QUALITY IN MISSISSIPPI'S COASTAL ESTUARIES AND STREAMS: ARE HARMFUL ALGAL BLOOM EVENTS INCREASING?
- Morgan, S. G.**; Bennett, W. A.; Williams, S. L.; Grosholz, E. E.; Cherr, G. N.; Nisbet, R. M.; Anderson, S. L.: A QUANTITATIVE APPROACH FOR ASSESSING THE ECOLOGICAL HEALTH OF ESTUARINE MARSHES: THE PACIFIC ESTUARINE ECOSYSTEM INDICATOR RESEARCH CONSORTIUM (PEIIR)
- Morris, M. C.**; Saupe, S. M.; Lindeberg, M. R.: SHOREZONE MAPPING IN THE GULF OF ALASKA: LINKING INTERTIDAL SPECIES ASSEMBLAGES FROM GROUND-SURVEYS TO REGIONAL MAPPING.
- Newstead, D. J.**; Tolan, J.; McKee, D. A.; Tunnell, Jr., J. W.; Hickman, G.: SPRING ICHTHYOPLANKTON DISTRIBUTION RELATIVE TO FRESHWATER INFLOW IN A SOUTH TEXAS ESTUARY
- Novakowski, K. I.**; Torres, R.: MARSH RESTORATION: INTERTIDAL CREEK LENGTH AND DRAINAGE AREA SCALING
- Nuwer, J. M.**; Keil, R. G.: SEDIMENTARY MARINE AND TERRESTRIAL ORGANIC MATTER OF CLAYOQUOT SOUND, BC
- O'Connor, T. P.**; Matlock, G. C.; Scavia, D.: TRENDS IN SHRIMP LANDINGS AS MEASURES OF ESTUARINE HABITAT QUALITY
- Ozretich, R. J.**: UPWELLING EFFECTS ON THE DISTRIBUTION OF NITRATE IN YAQUINA BAY, A COASTAL OREGON ESTUARY
- Page, H. M.**: STABLE NITROGEN ISOTOPE VALUES OF THE CRAB, *PACHYGRAPSUS CRASSIPES*: RELATIONSHIPS TO ANTHROPOGENIC NITROGEN INPUTS AND POTENTIAL PREY
- Paul, R. W.**: USING GIS TO UNDERSTAND HIGH RESOLUTION LINKAGES BETWEEN NON-TIDAL WATERSHED STREAMS AND A RECEIVING ESTUARY
- Pawley, A. L.**; Detwiler, S.; van Bergen, S.; Abbott, J.: A REVIEW OF BENTHIC INVERTEBRATE RESPONSES TO CONTAMINANTS: A PROPOSED IBI FOR WEST COAST ESTUARINE SYSTEMS
- Peterson, B. J.**; Holmes, R. M.; McClelland, J. W.; Vorosmarty, C. J.; Lammers, R. B.; Shiklomanov, A. I.; Shiklomanov, I. A.: INCREASING RIVER DISCHARGE TO THE ARCTIC OCEAN
- Preston, S. D.**; Perry, E.; Jacobson, P. T.: ASSESSMENT OF WATER-QUALITY CRITERIA IN THE CHESAPEAKE BAY BY ACCOUNTING FOR SPATIAL GRADIENTS AND TEMPORAL FREQUENCIES
- Pride, L.**; Rabalais-Turner, N.; Barker, A.; Lizotte, M.; Tengberg, A.: COMPARING MOORED OXYGEN SENSORS IN THE HYPOXIA ZONE IN THE GULF OF MEXICO
- Purcell, J. E.**; Decker, M. B.: COMPARISON OF PREDATION EFFECTS ON COPEPODS BY MEDUSAE AND CTENOPHORES IN TWO DECADES DIFFERING IN FRESHWATER INPUT TO CHESAPEAKE BAY
- Putland, J. N.**; Iverson, R. L.: SUMMERTIME HERBIVORY AND CARNIVORY BY MICRO- AND MESOZOOPLANKTON IN APALACHICOLA BAY, FLORIDA
- Quinones-Rivera, Z. J.**; Justic, D.; Wissel, B.; Fry, B.: USING STABLE ISOTOPES TO EVALUATE SOURCES AND SINKS OF OXYGEN IN THE HYPOXIC ZONE OF THE GULF OF MEXICO
- Ransibrahmanakul, V.**; Stumpf, R. P.; Holderied, K.; Tester, P.; Budd, J. W.: RETRIEVAL OF CHLOROPHYLL IN US ESTUARIES AND LAKES
- Raz-Guzman, A.**: MACROFLORA AND MACROFAUNA OF THE LITTORAL SYSTEMS OF MICHOACAN, MEXICO.
- Renfro, A. A.**; Leonard, L. A.; Rohrbacher, D.; Croft, A. L.; O'reilly, J. M.: THE EFFECTS OF DROUGHT CONDITIONS ON PARTICULATE LOADING IN THE LOWER CAPE FEAR RIVER ESTUARY
- Reyns, N. B.**; Eggleston, D. B.: BIO-PHYSICAL DETERMINANTS OF EARLY JUVENILE BLUE CRAB DISPERSAL IN A WIND-DRIVEN ESTUARY
- Rigobello-Masini, M.**; Aidar, E.; Masini, J. C.: THE PATHWAYS LEADING TO THE REGULATION OF NITRATE REDUCTASE AND CARBONIC ANHYDRASE OF THE MARINE MICROALGAE *TETRAISELMIS GRACILIS*
- Rinker, K. R.**; Powell, R. T.: DEVELOPMENT AND APPLICATION OF A FLOW INJECTION ANALYSIS TECHNIQUE FOR DISSOLVED ORGANIC NITROGEN AND PHOSPHORUS IN SEAWATER
- Robinson, R. R.**; Garono, R. J.; Simenstad, C. A.; Mortimer, A.: USING HIGH SPATIAL RESOLUTION HYPERSPECTRAL IMAGERY TO MAP INTERTIDAL HABITAT STRUCTURE IN HOOD CANAL (WA)

Roegner, G. C.; Armstrong, D. A.; Shanks, A. L.: PATTERNS OF LARVAL CRAB TRANSPORT TO PACIFIC NORTHWEST ESTUARIES

Rubio, G. A.; Childers, D. L.: MODELING THE DECOMPOSITION CYCLE OF CLADIUM JAMAICENSE IN THE EVERGLADES ESTUARIES

Saenger, C. P.; Cronin, T. M.; Vann, C.; Thunell, R. C.: RIVER DISCHARGE, PRECIPITATION, AND CHESAPEAKE BAY SALINITY: APPLICATION TO HOLOCENE PALEOCLIMATE HISTORY

Sandhei, P. T.; Swaney, D. P.; Smith, S. V.; McLaughlin, C. J.; Buddemeier, R. W.: ANTHROPOGENIC SOURCES OF NUTRIENT LOADING TO THE COASTAL ZONE

Schraga, T. S.; Lopez, C. B.; Lucas, L. V.; Cloern, J. E.: STRONG DIEL PATTERNS OF PHYTOPLANKTON BIOMASS IN A TIDAL LAKE: HIGH FREQUENCY AND "FAST BIOLOGY"

Seyb, R.; Williamson, R. B.: EVALUATING MANAGEMENT OPTIONS FOR MITIGATING STORMWATER QUALITY IMPACTS IN ESTUARINE AREAS

Shanks, A. L.; Roegner, C.; Armstrong, D.: MEASURING VARIATION IN LARVAL SUPPLY TO ESTUARINE SITES WITH LIGHT TRAPS

Small, D. J.; Mizell, M. C.; Waldbillig, C. M.; Kim, H.; Fresh, K. L.; Carr, M. I.: MASS MARKING OF JUVENILE CHINOOK SALMON WITH FLUORESCENT PIGMENT: RESURRECTION OF AN OLD TOOL AND POTENTIAL APPLICATIONS FOR STUDIES IN THE NEARSHORE

Smith, D. P.: OPTIMIZING ENVIRONMENTAL DATA USING RELATIONAL DATABASES

Taub, F. B.; Petersen, J. E.; Kemp, W. M.; Hinkle, D.: OXYGEN DYNAMICS IN ESTUARINE 'COSMS; NET PHOTOSYNTHESIS AND NIGHT-TIME RESPIRATION

Tribou, E.; Lewitus, A. J.; Tymowski, R. G.; Noble, P. A.: APPLICATION OF NEURAL NETWORK APPROACHES FOR DETERMINING ASSOCIATIONS BETWEEN ESTUARINE PHYTOPLANKTON COMMUNITIES AND ENVIRONMENTAL VARIABLES.

Tsou, T.; Matheson, R. E.; Leffler, D. L.: NEKTON COMMUNITY STRUCTURE OF THE LITTLE MANATEE RIVER AND CLIMATE CHANGES

Vincenty Aymat, A.; Minnigh, H. A.; Ramírez, G. I.; Hertler, H.: SEDIMENTATION RATES AND LIGHT ATTENUATION EFFECTS ON THE GROWTH OF *THALASSIA TESTUDINUM* IN LA PARQUERA, PUERTO RICO

Vines, C. A.; Fairbairn, E.; Walsh, S.; Higashi, R. M.; Anderson, S.; Cherr, G. N.: A BIOINDICATOR APPROACH TO ASSESSING THE EFFECTS OF CONTAMINANTS IN ESTUARINE SPECIES

Weber, M. R.; Ross, S. T.; Partyka, M.; Peterson, M. S.: A MODELING APPROACH TO QUANTIFY NURSERY FUNCTION FOR ESTUARINE-DEPENDENT NEKTON IN THE PASCAGOULA RIVER ESTUARY, MS USING ATLANTIC CROAKER

Yamamoto, M.; Nishimura, K.; Nozaki, K.; Kato, K.; Negishi, A.; Otani, K.; Shimizu, H.; Hayashibara, T.; Tamaki, M.; Fukuoka, K.: MAPPING TROPICAL SEAGRASS BEDS WITH AN UNDERWATER REMOTELY OPERATED VEHICLE (ROV)

Poster Session: Physical Processes

Location: Exhibit Hall 4E

Time: 5:30 PM – 6:30 PM

Baird, S.; Schoch, C.; Cope, J.: THE ROLE OF ESTUARINE HYDRODYNAMICS IN THE DISTRIBUTION OF KELP FORESTS IN KACHEMAK BAY, ALASKA

Barbosa, A. A.; Patchineelam, S. R.; Kuehl, S. A.; Kjerfve, B.: ANTRHOPOLOGICAL IMPACT AND COASTAL SEDIMENTATION IN SACO DO BRACUI, RIBEIRA BAY, ANGRA DOS REIS, BRAZIL

Brasseur, L. H.; Friedrichs, C. T.; Suttles, S. E.: EDDY DIFFUSIVITY AND BOTTOM STRESS ESTIMATED FROM ACOUSTIC DOPPLER CURRENT PROFILER (ADCP) BACKSCATTER MEASUREMENTS

Cope, J.; Roberts, M.; Schoch, C.: HIGH RESOLUTION MAPPING OF INTERTIDAL AND SHALLOW SUBTIDAL SHORES IN KACHEMAK BAY, ALASKA

Dellapenna, T. M.; Allison, M. A.; Majzlik, E. J.; Gill, G. A.; Lehman, R. A.: SOURCES OF TURBIDITY IN SHALLOW GULF COAST ESTUARIES: RELATIVE IMPORTANCE OF SHRIMP TRAWLING, WINTER STORMS, AND RIVERINE INPUTS TO TRINITY BAY, TEXAS

Di Iorio, D.; Kang, K.: TURBULENT MIXING IN THE ALTAMAHIA ESTUARY: AN OBSERVATION AND MODEL COMPARISON

Dickhudt, P.; Sanford, L. P.: SPATIAL AND TEMPORAL VARIABILITY IN BOTTOM SEDIMENT ERODIBILITY IN NORTHERN CHESAPEAKE BAY

Faubion, L.; Rupp, J.; Greengrove, C.; Keil, R.: DISTRIBUTION AND ABUNDANCE OF PHYTOPLANKTON IN BARKLEY AND CLAYOQUOT SOUNDS, BRITISH COLUMBIA, AUGUST 2002

Finlayson, D. P.; Parsons, J. D.; Simenstad, C.; Shipman, H.; Gelfenbaum, G.: ESTUARINE SEDIMENTARY PROCESSES ON COARSE CLASTIC BEACHES IN PUGET SOUND, WASHINGTON

Godhantaraman, N.: TAXONOMIC COMPOSITION, ABUNDANCE AND BIOMASS VARIATIONS OF MICROZOOPLANKTON AT TROPICAL ESTUARINE SYSTEMS, PARANGIPETTAI, SOUTH INDIA

Gray, N. P.; Kellogg, J. P.; Kawase, M.; Newton, J.; Warner, M. J.: PRISM CRUISES: DEVELOPING A DATABASE TO EVALUATE INTERANNUAL VARIABILITY IN PUGET SOUND. PART 2: OXYGEN AND NUTRIENTS 1998-2003

Greengrove, C.; Keil, R.; Chin-Leo, G.; Grocock, J.: PHYSICAL OCEANOGRAPHIC CONDITIONS IN BARKLEY AND CLAYOQUOT SOUNDS, BRITISH COLUMBIA CANADA - LATE SUMMER 2000-2002

Haas, L. W.; Brasseur, L.; Condon, R. H.; Darrow, E. S.; Gascoigne, J.; Tozzi, S.: CHARACTERIZATION AND ENVIRONMENTAL REGULATION OF THE SPRING BLOOM IN THE YORK RIVER ESTUARY, VIRGINIA, USA.

Hendrickson, J. C.; Sucsy, P.; Cerco, C. F.: DEVELOPMENT OF NUTRIENT REDUCTION TARGETS FOR CONTROL OF DISCHARGE-MEDIATED OSCILLATIONS IN SEASONAL PHYTOPLANKTON STANDING STOCK IN A BLACKWATER RIVER ESTUARY

- Hunter, E. J.**; Chant, R. J.; Hunt, H.: THE USE OF RDI'S MODE-11 TO MEASURE TURBULENCE AND BOTTOM STRESS IN A WEAKLY STRATIFIED ESTUARY.
- Kellogg, J. P.**; Gray, N. P.; Kawase, M.; Newton, J.; Warner, M. J.: PRISM CRUISES: DEVELOPING A DATABASE TO EVALUATE INTERANNUAL VARIABILITY IN PUGET SOUND. PART 1: TEMPERATURE AND SALINITY 1998-2003
- Kostoglidis, A.**; Pattiaratchi, C. B.; Hamilton, D. P.: THE SPATIAL AND TEMPORAL VARIABILITY OF THE UNDERWATER LIGHT CLIMATE IN A HIGHLY-COLOURED, MICROTIDAL ESTUARY: THE SWAN RIVER, WESTERN AUSTRALIA.
- Kruger, D. B.**; Pence, A. M.: NEW SCHEMES TO APPROXIMATE DENSITY OF SEA WATER FOR USE IN COMPUTER MODELING
- Li, M.**: MODELING ESTUARINE FLOWS USING LARGE EDDY SIMULATIONS (LES) MODEL
- Luther, M. E.**; Meyers, S. D.; Gilbert, S. A.; Subramanian, V.; Hansen, M. E.: AN INTEGRATED OBSERVING AND MODELING SYSTEM FOR TAMPA BAY, FLORIDA
- Maddox, D. S.**; Sager, W. W.; Dellapenna, T. M.: SIDE-SCAN SONAR IMAGING OF BAY BOTTOM SEDIMENT IN GALVESTON BAY, TEXAS: ANTHROPOGENIC IMPACTS ON THE BAY BOTTOM AND SEDIMENTATION
- McCabe, R. M.**; MacCready, P.; Pawlak, G.: ESTIMATES OF FORM DRAG FROM DRIFTER TRACKS
- Misra, G.**; Paytan, A.: VARIABILITY IN GROUNDWATER SOURCES AND CIRCULATION PATTERNS IN ELKHORN SLOUGH, CALIFORNIA
- Nairn, B. J.**; Kawase, M.: COMPARISON OF MODELED AND OBSERVED HYDROGRAPHY AND CIRCULATION IN PUGET SOUND, WASHINGTON: YEAR 2000
- North, E. W.**; Hood, R. R.; Chao, S. Y.; Sanford, L. P.: LINKING BIOLOGY AND PHYSICS IN AN ETM: THE EFFECT OF FRESHWATER FLOW AND WIND ON RETENTION OF FISH EARLY-LIFE STAGES
- Otosaka, S.**; Togawa, O.; Aramaki, T.; Suzuki, T.; Baba, M.; Senju, T.; Noriki, S.; Karasev, E. V.; Scherviniin, A.; Volkov, E.: PARTICULATE FLUX AND BIOGEOCHEMICAL CYCLE IN THE JAPAN SEA
- Pegau, W. S.**; Schoch, C.; Hedstrom, K.; Musgrave, D.: CONNECTIVITY BETWEEN KACHEMAK BAY AND THE GULF OF ALASKA
- Pence, A. M.**; Fullerton, B. J.; Kruger, D. B.: CALIBRATION OF THE LISST-100 USING QUARTZ SAND AND SILICON CARBIDE
- Power, J. H.**: AN APPROACH FOR CLASSIFYING TIDAL REGIMES BASED ON TIDAL CONSTITUENTS
- Reed, R. E.**; Glasgow, H. B.; Burkholder, J. M.; Cooney, D.; Kinder, C.: LONG- AND SHORT-TIME SCALE VARIABILITY IN WATER SURFACE ELEVATION IN THE NEUSE ESTUARY, NORTH CAROLINA, U.S.A.
- Smith, N. P.**: WIND AND TIDE-FORCED LAGOON-SHELF EXCHANGES IN A MULTI-INLET COASTAL LAGOON
- Smythe, S. A.**; Valle-Levinson, A.: SUBTIDAL EXCHANGE AT A TRIBUTARY TO THE CHESAPEAKE BAY: THE LAFAYETTE RIVER
- Uncles, R. J.**; Bale, A. J.; Brinsley, M. D.; Frickers, P. E.; Harris, C.; Lewis, R. E.; Staff, F. J.; Stephens, J. A.; Turley, C. M.; Widdows, J.: TIDAL AND SEASONAL DEPENDENCE OF INTERTIDAL MUDFLAT PROPERTIES AND CURRENTS IN A PARTIALLY MIXED ESTUARY
- Weishar, L. L.**; Teal, J. M.; Hinkle, R.: CHANNEL FORMATION PROCESS IN RESTORED SALT MARSHES
- Williams, E.**; Simpson, J. H.; Brasseur, L. H.: TURBULENCE MEASUREMENTS USING A FAST-SAMPLING ADCP IN A PARTIALLY MIXED ESTUARY
- Winter, T. C.**; Mitchell-Tapping, H. J.; Mallon, J. C.: INTERIM RESULTS FROM A STUDY OF ESTERO BAY, A FLORIDA COASTAL AQUATIC PRESERVE

Poster Session: Restoration

Location: Exhibit Hall 4E

Time: 5:30 PM – 6:30 PM

Brockmeyer, R. E.; Hinkle, C. R.; Collazo, J. A.; Blum, L. K.; Cahoon, D. R.; Scheidt, D. M.: WETLANDS INITIATIVE AT MERRITT ISLAND NWR: I. PROJECT HISTORY AND OVERVIEW

Catena, J. G.; Kiernan, S.; Sacco, J.; Craft, C.; Sturdevant, A.; Alderson, C.: TIDAL WETLAND RESTORATION IN A HIGHLY URBANIZED ESTUARY, WOODBRIDGE, NEW JERSEY

Coen, L. D.; Bolton-Warberg, M.; Cullen, K.; Finkbeiner, M.: NOVEL APPROACHES FOR EVALUATING TIDAL CREEK HABITATS AND ASSOCIATED ANTHROPOGENIC IMPACTS: IMPLICATIONS FOR MANAGEMENT AND RESTORATION IN THE SOUTHEASTERN U.S.

Cornu, C. E.; Koehler, M. E.: REESTABLISHING ESTUARINE CHANNEL COMPLEXITY AT HEAD OF TIDE: ANDERSON CREEK RESTORATION PROJECT IN COOS BAY'S SOUTH SLOUGH

Croft, A. L.; Leonard, L. A.; Childers, D. L.; Mitchell-Bruker, S.; Solo-Gabriele, H.; Wood, A.: THE EFFECT OF FLOW VELOCITY ON SEDIMENT TRANSPORT, SHARK RIVER SLOUGH, ENP.

Diefenderfer, H. L.; Ward, J. A.; Thom, R. M.: APPROACH FOR ASSESSING POTENTIAL CONTAMINANT RELEASES FROM COASTAL AND ESTUARINE HABITAT RESTORATION PROJECTS

Eberhardt, A.; Burdick, D.: FISH VERSUS HUMAN CORRIDORS – THE IMPACT OF ROAD CULVERTS ON FISH MOVEMENT

Ehlinger, G. S.; Holloway-Adkins, K. G.; Simpson, J. B.; Peterson, B. V.; Daumer, K. A.; Adams, J. L.; Scheidt, D. M.; Blum, L. K.: WETLANDS INITIATIVE AT MERRITT ISLAND NWR: IV. COMPARISON OF WATER QUALITY IN THE DIFFERENT WATER MANAGEMENT REGIMES OF IMPOUNDED MARSHES.

Ellis, W. L.; Bell, S. S.: *IN SITU* INFRARED VIDEO MONITORING OF ESTUARINE FISHES: A USEFUL MANAGEMENT TOOL IN STRUCTURALLY COMPLEX SYSTEMS

Gaeckle, J. L.; Short, F. T.; Kopp, B. S.: THE EFFECT OF TRANSPLANT PATCH SIZE ON AREAL EXPANSION OF EELGRASS (*ZOSTERA MARINA* L.)

- Glass, P.**; Hollingsworth, T.: MARSH TERRACING AND GEOTEXTILE TUBES USED TO RESTORE ERODED TEXAS COASTAL MARSH
- Hall, M. O.**; Berns, D.; Carlson, P.; Ferenc, K.; Hyniova, J.; Ketron, A.; Merello, M.; Saindon, D.; Fonseca, M.; Bell, S.: COMPARISON OF MECHANICAL AND MANUAL SEAGRASS PLANTING TECHNIQUES AT THREE SITES IN TAMPA BAY, FLORIDA
- Heatwole, D. W.**; Simenstad, C. A.: PREDICTING THE BENEFITS OF RESTORING TIDALLY RESTRICTED SALT MARSHES IN NORTHERN PUGET SOUND
- Hoeppner, S. S.**; Rose, K. A.; Reyes, E.; Day, J. W.: AN INDIVIDUAL-BASED MODELING APPROACH TO PREDICT MULTIPLE STRESSOR EFFECTS ON SWAMP PRODUCTIVITY AND FOREST DYNAMICS IN A COASTAL LANDSCAPE
- Howard, J. L.**; Faulkner, S. P.: STORM WATER DIVERSION AS METHOD OF WETLAND RESTORATION
- Huffman, J. A.**; Roach, R. W.; Williams, D. S.; Sparks, D. L.; Pridgeon, B.: SEAGRASS RECOVERY IN WEST GALVESTON BAY
- Hutchins, E.**: TOWN BROOK DAM REMOVAL: TECHNICAL ASPECTS
- Leonard, L. A.**; Posey, M.; Cahoon, L.; Alphin, T.; Croft, A. L.; Panasik, G.: USE OF DREDGED MATERIAL TO RESTORE DETERIORATING TIDAL MARSHES: MASONBORO ISLAND, NORTH CAROLINA
- Lowers, R. H.**; Reyier, E. A.; Scheidt, D. M.: WETLANDS INITIATIVE AT MERRITT ISLAND NWR: V. SALT MARSH ICHTHYOFAUNAL COMMUNITY STRUCTURE UNDER THREE DIFFERENT WATER MANAGEMENT STRATEGIES
- Merello, M. F.**: EFFECTS OF SEDIMENT DEPTH AND ROOTING HORMONE ON THE SURVIVAL AND HERMINATION OF *THALASSIA TESTUDINUM* BANKS EX KONIG SEEDS.
- Murphy, R. F.**; Moulds, S.: SUBMERGED AQUATIC VEGETATION RESTORATION: CREATING DONOR BEDS TO REDUCE IMPACT TO NATURAL POPULATIONS
- Neikirk, B. B.**; Moore, K. A.; Anderson, B. A.; Orth, R. J.; Bieri, J. G.; Grandstaff, J.: WATER QUALITY, HERBIVORY AND SAV RESTORATION IN THE FRESHWATER TIDAL JAMES RIVER, VIRGINIA, USA
- Nestlerode, J. A.**; Luckenbach, M. W.; Diaz, R. J.: BENTHIC COMMUNITY STRUCTURE AND SECONDARY PRODUCTION ON VARYING TYPES OF INTERTIDAL OYSTER REEF HABITATS
- Owens, A. B.**; Proffitt, C. E.: FIRE AND VEGETATION CLIPPING: EFFECTS OF TWO EXPERIMENTAL DISTURBANCE REGIMES ON RE-GROWTH AND RECRUITMENT OF *IVA FRUTESCENS*
- Park, S. B.**; Cho, G. I.; Lee, C. W.; Kim, G. Y.; Joo, G. J.: PHYSICAL ALTERATIONS AND RESTORATION OF THE ESTUARINE WETLAND OF THE NAKDONG RIVER, S. KOREA
- Parkinson, R. W.**; Cahoon, D. R.; Blum, L. K.; Stewart, J. B.; DeLaune, R. D.; Lowers, R. H.; Reyier, E. A.: WETLANDS INITIATIVE AT MERRITT ISLAND NATIONAL WILDLIFE REFUGE (MINWR): III. SEDIMENTATION AND ELEVATION DYNAMICS
- Parsons, L. S.**; Allen, L. J.: THE ROLE OF ECOSYSTEM RESTORATION IN IMPROVING HEALTH OF THE TOMALES BAY WATERSHED
- Payne, W. V.**; Hunt, D. K.; Brockmeyer, R. E.: WETLANDS INITIATIVE AT MERRITT ISLAND NWR: VII. DATA MANAGEMENT
- Poirrier, M. A.**: SUBMERSED AQUATIC VEGETATION RESTORATION THROUGH BIVALVE RESTORATION IN LAKE PONTCHARTRAIN, LA
- Rodney, W. S.**; Paynter, K. T.: COMPARISON OF FISH TROPHIC INTERACTIONS ON RESTORED AND UNRESTORED OYSTER REEFS IN CHESAPEAKE BAY, MARYLAND, USA
- Rogers, R. E.**: THE STATUS AND MANAGEMENT OF DENMAN ISLAND DISEASE OF OYSTERS IN WASHINGTON STATE AND ITS POTENTIAL EFFECT ON OLYMPIA OYSTER RESTORATION
- Russell, L. R.**: HARDY BAY - ESTUARY IN TRANSITION
- Stanhope, D. M.**; Havens, K. J.; O'Brien, D. L.; Berquist, H. E.; Hershner, C. H.: WE'VE GOT THAT SINKING FEELING: METHODS FOR INCREASING SUBSIDING ELEVATION IN AN OLIGOHALINE MARSH SYSTEM
- Stewart, J. B.**; Brockmeyer, R. E.; Provancha, M. J.; Beck, J. E.; Carter, E. W.: WETLANDS INITIATIVE AT MERRITT ISLAND NWR: II. SITE DESCRIPTION AND HISTORY.
- Takacs, R.**: CHALLENGES TO IMPLEMENTING OYSTER RESTORATION IN CHESAPEAKE BAY-IS IT IN OUR CONTROL?
- White, J.**; Bloch, P.: TITLE: NEW METHODS TO EVALUATE NEARSHORE CONSERVATION AND RESTORATION OPPORTUNITIES
- Wozniak, A. S.**; James-Pirri, M. J.; Roman, C. T.; Wainright, S. C.; McKinney, R.: MONITORING THE SUCCESS OF SALT MARSH RESTORATION BY EVALUATING TROPHIC RELATIONSHIPS: A MULTIPLE STABLE ISOTOPE APPROACH

Graduate students have the opportunity to conduct their research in one of 25 living laboratories through the National Estuarine Research Reserve System's

Graduate Research Fellowship

program. Learn more by visiting www.ocrm.nos.noaa.gov/grf.

**Study...
Get
Muddy!!!**

Application deadline is Nov. 1, 2003.

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

THURSDAY, SEPTEMBER 18, 2003

CS-11: Private and Public Partnerships in Estuarine Restoration

Chair(s): Gordon Thayer, Jennifer Macal

Location: 4C3

8:00 AM	Bergstrom, P. : INTEGRATING VOLUNTEER AND PROFESSIONAL STAFF IN COMMUNITY BASED RESTORATION BY THE MAGOTHY RIVER ASSOCIATION
8:15 AM	Bruckner, R. J. : THE NOAA COMMUNITY-BASED RESTORATION PROGRAM - TECHNICAL AND FINANCIAL FEDERAL ASSISTANCE FOR GRASS-ROOTS FISHERY HABITAT RESTORATION PROJECTS AND PARTNERSHIPS
8:30 AM	Meyer, D. L. ; Johnson, J. M.; Page, G. G.; Gill, J.: EASTERN NECK AND BARREN ISLAND SALT MARSH RESTORATIONS: COMMUNITY GROUPS AND SCIENTISTS WORKING TOGETHER
8:45 AM	Page, G. G. ; Nemerson, D.; Ashley, A.; Meyer, D. L.; Johnson, J. M.; Gill, J.: A MODEL FOR COMMUNITY-BASED MARSH CREATION AND MONITORING IN CHESAPEAKE BAY
9:00 AM	Paynter, K. T. : RESULTS FROM IMPLEMENTING OYSTER RESTORATION IN CHESAPEAKE BAY-WHAT, HOW, AND WHY WE ARE MONITORING...AND IS IT WORKING?
9:15 AM	MacBroom, J. : TOWN BROOK DAM REMOVAL: FIRST IN MASSACHUSETTS FOR MARINE FISH
9:30 AM	Rozas, L. P. ; Minello, T. J.; Caldwell, P.: THE EFFECT OF CELL SIZE ON THE HABITAT VALUE OF MARSH TERRACES

CS-12: Innovative Approaches and Techniques for Restoration

Chair(s): Aimee Kinney

Location: 2B

8:00 AM	Wanless, H. ; Thorhaug, A.: CORAL RESTORATION IN SOFT BOTTOM ESTUARINE ENVIRONMENTS: PORIETES COMPLEX.
8:15 AM	Piazza, B. P. ; Supan, J.; Plunket, J.; La Peyre, M. K.: SUSTAINABILITY AND FISHERIES IMPACT OF CREATED OYSTER REEFS FOR COASTAL PROTECTION
8:30 AM	Kurz, R. C. ; Repenning, R.; Laakkonen, K.; Tomasko, D.: ALLIGATOR CREEK - HYDROLOGIC RESTORATION OF A COMPLEX ESTUARINE LANDSCAPE
8:45 AM	Davis, C. L. ; Kitting, C. L.: SHORES RESTORED WITH MARSH TIDAL POOLS IN SAN FRANCISCO ESTUARY YIELD COMMON, ANCIENT AQUATIC INVERTEBRATES
9:00 AM	Cornu, C. E. ; Sadro, S.: PHYSICAL AND FUNCTIONAL RESPONSES TO EXPERIMENTAL MARSH SURFACE ELEVATION MANIPULATION IN COOS BAY'S SOUTH SLOUGH

9:15 AM Martini-Lamb, J. E.; **Parsons, L. S.**: TURNING WASTE INTO WATER: USE OF RECLAIMED WASTEWATER FOR RESTORATION AND WILDLIFE HABITAT ENHANCEMENT PURPOSES

9:30 AM Steyer, G. D.; **Foret, J. D.**; Lee, D. M.: BRACKISH MARSH RESTORATION UTILIZING WATER MANAGEMENT, SEDIMENT NOURISHMENT AND VEGETATION PLANTINGS IN SOUTH-CENTRAL LOUISIANA

CS-13: Distinguishing Natural and Anthropogenic Signals in Estuarine Ecosystems

Chair(s): David Tomasko

Location: 3A

8:00 AM	Tomasko, D. A. : DISTINGUISHING NATURAL AND ANTHROPOGENIC SIGNALS IN ESTUARINE ECOSYSTEMS - EXAMPLES FROM SOUTHWEST FLORIDA
8:15 AM	Corbett, C. A. ; Tomasko, D. A.; Barnes, T. K.; Madley, K. A.: ISSUES WITH USING SUBMERGED AQUATIC VEGETATION AS AN INDICATOR OF ECOSYSTEM HEALTH IN CHARLOTTE HARBOR, FLORIDA
8:30 AM	Woithe, R. ; Robison, D.; Montgomery, R.; McConnell, R.; Janicki, A.: DEFINING BASELINE CONDITIONS IN THE TAMPA BAY ESTUARY IN ORDER TO DISTINGUISH BETWEEN NATURAL PATTERNS AND THE EFFECTS OF FRESHWATER WITHDRAWALS
8:45 AM	Mausner, J. ; Jaeger, J. M.; Hart, M. L.: AN EXAMINATION OF ANTHROPOGENICALLY INFLUENCED SEDIMENTATION IN HIGHLY DEVELOPED FLORIDA ESTUARIES
9:00 AM	Rutten, L. M. ; Fourqurean, J. W.; Philippi, T.: AN ASSESSMENT OF NEARSHORE BENTHIC COMMUNITIES OF THE FLORIDA KEYS
9:15 AM	Johnson, R. L. ; Perez, K. T.; Davey, E. W.; Cardin, J. A.; Rocha, K. J.; Dettmann, E. H.; Heltshe, J. F.: DISCRIMINATING THE BENTHIC EFFECTS OF ANTHROPOGENIC POINT SOURCES FROM SALINITY AND NITROGEN LOADING
9:30 AM	Ruesink, J. L. ; Trimble, A. C.: POST-INVASION SHIFTS IN RECRUITMENT TIMING AND MAGNITUDE OF PACIFIC OYSTERS (<i>CRASSOSTREA GIGAS</i>)

CS-14: Estuarine-Coastal Ocean Exchange

Chair(s): Cheryl Brown

Location: 3B

8:00 AM	Brown, C. A. ; Ozretich, R. J.: ROLE OF OCEANIC AND RIVERINE SOURCES IN NUTRIENT AND PHYTOPLANKTON DYNAMICS IN YAQUINA BAY, OREGON
8:15 AM	Miller, J. A. ; Shanks, A. L.: OTOLITH MICROCHEMISTRY OF PACIFIC STAGHORN SCULPIN (<i>LEPTOCOTTUS ARMATUS</i>): WHAT CAN IT TELL US ABOUT LARVAL DISPERSAL?
8:30 AM	Martin, M. A. ; Fram, J.; Stacey, M.: MIXING OF WATER MASSES AT THE MOUTH OF AN ESTUARY WITH TWO SUBEMBAYMENTS: CENTRAL SAN FRANCISCO BAY

8:45 AM	Hanrahan, G. S. ; Powell, R. T.; Del Castillo, C.: PHOTOCHEMICAL RELEASE OF NITROGEN FROM DISSOLVED ORGANIC MATTER IN THE EFFLUENT PLUME OF THE MISSISSIPPI RIVER
9:00 AM	Wysocki, L. A. ; Bianchi, T. S.; Filley, T. R.: SOURCES OF ORGANIC CARBON ON THE LOUISIANA SHELF: THE USE OF CHEMICAL BIOMARKERS TO TRACE ORGANIC MATTER IN MISSISSIPPI RIVER PLUME SEDIMENTS
9:15 AM	Pollard, C. A.; Bauer, J. E. : CONCURRENT FLUXES OF DOC, DON AND DOP IN A MID-ATLANTIC COASTAL PLAIN ESTUARY: IMPLICATIONS FOR EXPORT OF CARBON AND NUTRIENTS TO THE TEMPERATE COASTAL OCEAN
9:30 AM	Miller, C. J. ; Soong, Y. S.; Ambler, J. W.: FINE-SCALE HYDROGRAPHIC SURVEY OF CHINCOTEAGUE INLET

CS-15: Integrating Climate Change into Estuarine Management

Chair(s): Henry Walker, Candace Oviatt

Location: 2A

1:15 PM	Walker, H. A. ; O'Connor, T. P.; Anderson, N. J.; Cronin, T. M.; Paul, J. F.; Boesch, D. F.: MONITORING AND UNDERSTANDING CONDITIONS AND TRENDS IN U.S. ESTUARIES
1:30 PM	Howarth, R. W. ; Marino, R. M.; Boyer, E. W.; Swaney, D. P.: POTENTIAL CONSEQUENCES OF CLIMATE CHANGE ON DELIVERY OF NUTRIENTS TO ESTUARIES
1:45 PM	Cronin, T. M. : PALEOCLIMATE RECORDS FROM ESTUARIES
2:00 PM	Hunt, C. D. : LINKING ECOSYSTEM UNDERSTANDING AND COASTAL PROTECTION AND RESTORATION GOALS
2:15 PM	Anderson, N. J. : HOLOCENE ENVIRONMENTAL CHANGE IN THE NORTH ATLANTIC REGION: LINKING CLIMATE, LANDSCAPE AND PEOPLE
2:30 PM	Oviatt, C. A. : CS-09 PERSPECTIVES ON THE CHANGING CLIMATE AND ECOLOGICAL IMPACTS IN COASTAL WATERS
2:45 PM	Swanson, R. L. ; Wilson, R. E.: PERSPECTIVES OF LONG-TERM HYPOXIC CONDITIONS IN LONG ISLAND SOUND
3:30 PM	Tucker, J. ; Giblin, A. E.; Howes, B. L.; Hopkinson, C. S.: CONTROLS ON INTER-ANNUAL VARIATION IN BENTHIC FLUXES IN MASSACHUSETTS BAY
3:45 PM	Rabalais, N. N. ; Turner, R. E.; Justic, D.; Sen Gupta, B. K.; Dortch, Q.; Parsons, M. L.; Scavia, D.; Goolsby, D. A.: CENTURY AND DECADAL CHANGES IN THE MISSISSIPPI RIVER SYSTEM: PAST, PRESENT AND FUTURE
4:00 PM	Rudnick, D. T. : THE CHALLENGE OF FLORIDA BAY RESTORATION: UNDERSTANDING AND MANAGING ECOSYSTEM CHANGE
4:15 PM	Paul, J. P. ; Galloway, W.; Pesch, G.; Charpentier, M.; Heltshe, J.; Cobb, D.; Strobel, C.: THE USE OF EXISTING MONITORING PROGRAM SITES IN A PROBABILITY SURVEY DESIGN – EVALUATION

SPS-20: Response of Estuaries and Coastal Landscapes to Climate Related Phenomena

Chair(s): Douglas F. Williams, Norman J. Dodson

Location: 4C4

8:00 AM	Whitman, K. J. ; Oviatt, C. A.: CHARACTERIZING WINTER PHYTOPLANKTON DYNAMICS IN MASSACHUSETTS BAY IN RELATION TO THE NORTH ATLANTIC OSCILLATION
8:15 AM	Rankin, K. L. ; Bruno, M. S.; Pence, A. M.; Fullerton, B. J.; Burke, P.: METEOROLOGICAL FORCING OF THE NEWARK BAY/KILLS SYSTEM
8:30 AM	Burger, N. H. : ECOSYSTEM RESPONSES TO INTERNAL AND WATERSHED LOADING IN SIX EUTROPHIC CHESAPEAKE BAY TRIBUTARIES
8:45 AM	Pietrafesa, L. J. ; Xie, L. A.; Fletcher, M. A.; Buckley, E. B.: OBSERVATIONS AND MODELING OF CLIMATE RELATED IMPACTS OF TROPICAL CYCLONES IN THE CAROLINAS: PAST AND FUTURE
9:00 AM	Notestein, S. K. ; Frazer, T. K.; Hale, J. A.: THE INFLUENCE OF AN EL NINO EVENT ON ESTUARINE WATER QUALITY PARAMETERS
9:15 AM	Livingston, R. J. : LONG-TERM CLIMATOLOGICAL EFFECTS ON COASTAL PLANKTON BLOOMS AND RESPONSES OF ASSOCIATED FOOD WEBS
9:30 AM	Mulitsch, M. J. ; Usttin, S. L.; Lay, M. C.: EFFECTS OF INTERANNUAL CLIMATE CHANGE ON CALIFORNIA ESTUARIES: INTEGRATING REMOTE SENSING AND SPATIAL ECOSYSTEM MODELING

SPS-21: Long-Term and Large-Scale Patterns in Coastal and Freshwater Aquatic Ecosystems

Chair(s): Dan Childers, Chuck Hopkinson, Steve Pennings, Dan Reed, Jay Zieman

Location: 4C2-4C1

8:00 AM	Grimm, N. B. : A LONG-TERM PERSPECTIVE ON BIOGEOCHEMISTRY OF DESERT STREAMS
8:30 AM	Frankovich, T. A. ; Zieman, J. C.: EPIPHYTIC DIATOM SPECIES ASSEMBLAGES: RELATIONSHIPS TO ESTUARINE WATER QUALITY
8:45 AM	Daoust, R. J. ; Morris, J. T.: FACTORS AFFECTING OLIGOHALINE MARSH MACROPHYTE ZONATION AND PRODUCTION AT THE PLUM ISLAND ECOSYSTEM LTER SITE.
9:00 AM	Hackney, C. T. ; Leonard, L. L.; Hall, J. L.; Lomax, R. W.; Wimmer, K. M.: FLOODING FREQUENCY, DURATION, AND SALINITY OF TIDAL SWAMPS IN THE UPPER CAPE FEAR RIVER ESTUARY, NORTH CAROLINA
10:15 AM	Mullan, C. P. ; Silliman, B. R.; Bertness, M. D.: SPATIAL SEGREGATION OF NEW ENGLAND MARSH PLANTS ACROSS AN ESTUARINE SALINITY GRADIENT
10:30 AM	Kennison, R. L. ; Kamer, K.; Fong, P.: SEASONAL PATTERNS IN NUTRIENT DYNAMICS AND MACROALGAL BLOOMS COMPARED BETWEEN FIVE SOUTHERN CALIFORNIA ESTUARIES
10:45 AM	Carlson, P. R. ; Mattson, R. A.; Yarbro, L. A.; Saindon, D. D.; Ketron, A. D.; Merello, M.: OPTICAL WATER QUALITY AND SEAGRASS DISTRIBUTION IN FLORIDA'S BIG BEND

11:00 AM	Blum, L. K. ; Lindquist, L. E.; Mills, A. L.; Roberts, M. S.; Garland, J. L.: LATITUDINAL VARIATION OF PLANT LITTER DECOMPOSITION IN TEN EAST COAST SALT MARSHES	9:15 AM	da Silva, S. N. ; Lussier, S. M.; Wigand, C.; Charpentier, M.; Cormier, S. C.; Klemm, D. J.: INDICATORS OF ANTHROPOGENIC DISTURBANCE IN STREAMS AND RECEIVING SALT MARSHES
11:15 AM	Newell, S. Y. : GEOGRAPHIC VARIATION IN FUNGAL DECOMPOSITION IN MARSHES	9:15 AM	Decker, C. J. ; O'Dor, R.; Yarincik, K. M.: THE CENSUS OF MARINE LIFE: UNKNOWN OR JUST UNKNOWABLE?
11:30 AM	Pennings, S. C. : LATITUDINAL VARIATION IN PLANT-HERBIVORE INTERACTIONS IN ATLANTIC COAST SALT MARSHES	9:15 AM	Buck, T. L. ; Allen, D. M.; Foose, S. E.; Kenny, P.; Ogburn-Matthews, G.; Buzzelli, C.: MACROZOOPLANKTON DYNAMICS IN A SOUTHEASTERN ESTUARY: PATTERNS AND MECHANISMS OF LONG-TERM CHANGE
1:15 PM	Zimmerman, R. C. ; Dierssen, H. M.; Reed, D. C.: GEOGRAPHIC UNDERSTANDING OF COASTAL AQUATIC MACROPHYTE DYNAMICS	9:15 AM	Foster, A. M. ; Smith Jr., T. J.: DISTRIBUTION OF MANGROVES IN THE WESTERN FLORIDA EVERGLADES: 1927 TO THE PRESENT
1:30 PM	Brush, M. J. ; Latour, R. J.; Wetzel, R. L.; Steinberg, D. K.: ANALYSIS OF A 17-YEAR DATABASE FOR PLANKTON IN CHESAPEAKE BAY	9:15 AM	White, S. N. ; Alber, M.: CONTROLS OF <i>SPARTINA</i> ZONATION PATTERNS ALONG THE ALTAMAHA RIVER ESTUARY, GA: ABIOTIC AND BIOTIC MECHANISMS
1:45 PM	Paerl, H. W. ; Piehler, M. F.; Valdes, L. M.; Lebo, M. E.: IMPACTS OF FRESHWATER NUTRIENT MANAGEMENT AND CLIMATIC PERTURBATIONS ON ESTUARINE EUTROPHICATION DYNAMICS: A LONG TERM STUDY OF THE NEUSE RIVER ESTUARY, NC	9:15 AM	Piehler, M. F. ; Dyble, J.; Paerl, H. W.: UNDERSTANDING PHYTOPLANKTON-NUTRIENT RELATIONSHIPS IN THE ST. JOHN'S RIVER ESTUARY, FLORIDA, USA: EFFECTS OF UPSTREAM PHYTOPLANKTON DYNAMICS
2:00 PM	Melack, J. M. ; Beighley, E.; Leydecker, A.; Robinson, T.; Coombs, S.: GEOGRAPHICAL VARIATIONS IN FLUVIAL FLUXES TO COASTAL WATERS: INTERMITTENCY AND MAGNITUDES	9:15 AM	Picard, C. R. ; Bornhold, B. D.; Harper, J. R.: WOOD DEBRIS ACCUMULATION AND IMPACTS ON BENTHIC ECOLOGY IN BRITISH COLUMBIA ESTUARIES
2:15 PM	Day, J. W. ; Cable, J.; Day, J. N.; Fry, B.; Hyfield, E.; Jusatic, D.; Lane, R.; Reyes, E.; Sneden , G.; Wissel, B.: THE IMPACT OF PULSED INTRODUCTIONS RIVER WATER ON THE FUNCTIONING OF AN ESTUARINE ECOSYSTEM IN THE MISSISSIPPI DELTA	9:15 AM	Gallagher, E. D. ; Keay, K. E.; Blake, J. A.; Maciolek, N.; Banik, A.; Kropp, R. K.: PATTERNS IN BOSTON HARBOR COMMUNITY STRUCTURE FROM 1991-2001
2:30 PM	Lehrter, J. C. ; Pennock, J. R.; Hornstra, H. M.; Craig, L. J.: CARBON, NITROGEN, AND PHOSPHORUS EXPORT FROM COASTAL PLAIN WATERSHEDS WITH DIFFERENT PREDOMINANT LAND-USE/LAND-COVER		
2:45 PM	Ewanchuk, P. J. ; Pennings, S. C.; Bertness, M. D.; Selig, E. R.; Houser, L. T.: GEOGRAPHIC AND TEMPORAL VARIATION IN THE NATURE OF BIOLOGICAL INTERACTIONS AMONG SALT MARSH PLANTS		
3:30 PM	Van Beusekom, J. : INFLUENCE OF DECREASING RIVERINE PHOSPHORUS LOADS ON THE PHOSPHORUS CYCLE IN THE WADDEN SEA, EUROPE.	8:00 AM	Morris, J. T. ; Christian, R. R.: FOOD WEB SIZE, COMPLEXITY AND FUNCTION
3:45 PM	Hensel, P. F. ; Cahoon, D. R.: THE VALUE OF LONG-TERM SEDIMENT ELEVATION DATASETS USING THE SEDIMENT ELEVATION TABLE	8:30 AM	Baird, D. ; Waldron, H.; Christian, R. R.: COMPARATIVE ASSESSMENT OF ECOSYSTEM FUNCTION DERIVED FROM NETWORK ANALYSES AND THE LOICZ BIOGEOCHEMICAL BUDGETING PROTOCOL FOR ESTUARIES OVER TEMPORAL SCALES
4:00 PM	Butler, T. J. ; Tartowski, S. L.; Bashkin, V. N.; Lychagin, M. Y.; Sisengalieva, G.; Yergaliyev, T.: HYDROLOGIC INPUT, NUTRIENT AND POLLUTANT BUDGETS, AND BIOTIC COMPONENTS OF THE NORTH CASPIAN SEA	8:45 AM	Krause, A. E. ; Mason, D. M.: INVASIVE SPECIES AND FOOD WEB DISRUPTION: EXAMPLE FROM THE LAURENTIAN GREAT LAKES
4:15 PM	Monaco, M. E. ; Caldow, C.; Morrison, W.; Gill, T. A.; Waddell, J.; Christensen, J. D.: A BIOGEOGRAPHIC ASSESSMENT OF THE MARINE REGION ENCOMPASSING THE CORDELL BANK, GULF OF THE FARALLONES, AND MONTEREY BAY NATIONAL MARINE SANCTUARIES	9:00 AM	Leguerrier, D. ; Niquil, N.; Pouvreau, N.; Brenon, I.; Bacher, C.: FOOD-WEB MODELING OF AN INTERTIDAL MUDFLAT IN MARENNE-OLERON BAY (FRANCE) : COMBINATION OF TRANSPORT AND TROPHIC FLUXES

Interactive Posters

9:15 AM	Frazer, T. K. ; Notestein, S. K.; Keller, S. R.; Phlips, E. J.; Jett, C. E.: PHOSPHORUS LIMITATION OF A NITROGEN ENRICHED ESTUARINE COMPLEX	9:15 AM	Dame, J. K. : INFERENCE OF ECOSYSTEM PROPERTIES FROM NETWORK ANALYSIS OF SALT MARSH POND FOOD WEBS.
9:15 AM	Gann, T. T. ; Childers, D. L.: NUTRIENT CYCLING, LITTER ACCUMULATION, AND DECOMPOSITION IN SEASONALLY FLOODED TREE ISLANDS OF THE SOUTHERN EVERGLADES	9:30 AM	Wilson, J. G. ; Foley, N.: NETWORK ANALYSIS AND MODELLING OF THE DUBLIN BAY SYSTEM

10:30 AM	Scharler, U. M. ; Ulanowicz, R. E.: USING NETWORK ANALYSIS TO INVESTIGATE NUTRIENT LIMITATIONS IN A TROPICAL MANGROVE ECOSYSTEM.	3:30 PM	Sommerfield, C. K. ; Klingbeil, A. D.: NATURAL AND ANTHROPOGENIC INFLUENCES ON ESTUARINE EROSION: A HUDSON RIVER CASE STUDY
10:45 AM	Harris, L. A. ; Nixon, S. W.: ALLOMETRIC RELATIONSHIPS AND AGENT-BASED MODELING FOR MARINE MACROPHYTES	3:45 PM	Alexander, C. ; Kineke, G.; Venherm, C.: THE ESTUARINE SEDIMENTARY RECORD OF RAPID, FINE-GRAINED SEDIMENT ACCUMULATION IN THE ACE BASIN NERR, SC
11:00 AM	Tester, P. A. ; Litaker, R. W.: AIRBORNE DETECTION OF ECOSYSTEM RESPONSES TO AN EXTREME EVENT	4:00 PM	Johannessen, J. W. ; Chase, M. A.: SPIT DYNAMICS AND SHORELINE (BASIN) CHANGE ANALYSIS FOR HYDRODYNAMIC MODELING AT PORTAGE BAY, LUMMI INDIAN RESERVATION, WA
11:15 AM	Kemp, W. M. ; Brooks, M.; Boynton, W. R.: TROPHIC YIELD, NUTRIENT ENRICHMENT AND ENVIRONMENTAL VARIATION IN CHESAPEAKE BAY	4:15 PM	Bohlen, W. F. ; Howard-Strobel, M. M.; Cohen, D. R.: MATERIAL CYCLING WITHIN THE ESTUARINE SEDIMENT-WATER INTERFACIAL REGION
11:30 AM	de Jonge, V. N. : THE ECOSYSTEM APPROACH TO ESTUARINE MANAGEMENT		

SPS-23: Estuarine Sedimentary Processes and Products

Chair(s): Timothy M. Dellapenna, Steven A. Kuehl

Location: 2B

10:15 AM	Porubsky, W. P. ; Weston, N. B.; Joye, S. B.: EXAMINATION OF DENITRIFICATION AND DISSIMILATORY NITRATE REDUCTION TO AMMONIUM AS PATHWAYS FOR THE REDUCTION OF INORGANIC NITROGEN IN SALTMARSH SEDIMENT
10:30 AM	Kozlowski, G. J. ; McKee, B. A.; Powell, R. T.; Duncan, D. A.: RATES OF REDOX DRIVEN PROCESSES IN A SHALLOW, ESTUARINE ENVIRONMENT
10:45 AM	Jaeger, J. M. ; Sun, M. Y.; White, J. R.; Hendrickson, J.: A SEASONAL TIME-SERIES STUDY OF SEDIMENTARY PROCESSES IN A HIGH-ORGANIC-CARBON BLACKWATER ESTUARY, LOWER ST. JOHNS RIVER FLORIDA
11:00 AM	Corbett, D. R. ; Giffin, D.; Frank, J.; West, T.; Clough, L.; Calfee, W.: THE ROLE OF SEDIMENT RESUSPENSION IN NUTRIENT CYCLING
1:15 PM	Cowan, J. L. ; Daniel, J.; Hintz, Y.; Russell, C.: RELATIONSHIPS BETWEEN SEDIMENT TYPE AND SEDIMENT-WATER NUTRIENT EXCHANGES
1:30 PM	Sundareshwar, P. V. ; Richardson, C. J.: ROLE OF FLOODPLAIN SEDIMENTS IN REGULATING PHOSPHORUS DYNAMICS IN THE CAPE FEAR RIVER
1:45 PM	Osher, L. J. : RECORDS OF SEDIMENTARY PROCESSES AS REVEALED BY ESTUARY SOIL MORPHOLOGY AND CHEMISTRY
2:00 PM	Wilson, C. G. ; Matisoff, G.; Whiting, P. J.: DETERMINING FINE SEDIMENT SOURCES IN THE SOUTH SLOUGH, OR, NERR USING BE-7 AND PB-210
2:15 PM	Dellapenna, T. M. ; Kuehl, S. A.; Schaffner, L. C.: ROLE OF TROPICAL STORMS IN PRODUCING DEEP SEABED MIXING AND SEDIMENT FLUSHING IN ESTUARIES: THE IMPACT OF TROPICAL STORM ANGES ON THE YORK RIVER
2:30 PM	Romine, H. M. ; Kuehl, S. A.; Friedrichs, C. T.: DOCUMENTING THE SUSPENDED AND BOTTOM SEDIMENT DYNAMICS OF A TWO ESTUARINE TURBIDITY MAXIMUM SYSTEM USING BE-7 AND TH-234
2:45 PM	Hinchey, E. K. ; Schaffner, L. C.: THE ROLE OF SEABED DYNAMICS IN STRUCTURING A MESOHALINE MACROBENTHIC INFANAL COMMUNITY.

Interactive Posters

11:15 AM	Bronikowski, J. L. ; Dellapenna, T. M.; Sager, W.; Simons, J.; Harper, J.; Patch, M.: SEDIMENTARY ENVIRONMENTS IN A SHALLOW, GULF COAST ESTUARY-LAVACA BAY, TEXAS
11:15 AM	Kusuda, T.; Sakita, S.; Hashimoto, A. : VERTICAL TRANSPORTATION PROCESS BETWEEN SEDIMENT AND SURFACE WATER INDUCED BY TIDE IN ESTUARIES
11:15 AM	Chen, M. ; Wartel, S.; Van den Winkel, P.: EFFECT OF MAINTENANCE DREDGING ON FLUVIAL-MARINE EQUILIBRIUM OF SUSPENDED MATTER IN THE SCHELDT ESTUARY
11:15 AM	Surratt, D. D.; Kineman, J. ; Cherrier, J.; Robinson, L.; Johnson, E.: NUTRIENT DRIVEN ANALYSIS OF THE APALACHICOLA BAY: PAST, PRESENT, AND FUTURE
11:15 AM	Flanagan, C. ; Osher, L. J.: SUBAQUEOUS SOIL SURVEY OF TAUNTON BAY, MAINE: TECHNIQUES AND APPLICATIONS
11:15 AM	Kniskern, T. A. ; Kuehl, S. A.: ALONG- VERSUS ACROSS-CHANNEL VARIABILITY IN SEDIMENTARY PROCESSES IN THE YORK RIVER SUBESTUARY
11:15 AM	Choumiline, E. ; Silverberg, N.: DISTINCT COMPOSITION OF SEDIMENTING MATERIAL IN SAN LAZARO BASIN (WESTERN BAJA CALIFORNIA MARGIN) BEFORE AND DURING THE 1997/1998 EL NIÑO EVENT
11:15 AM	Slagle, A. L. ; Carbotte, S. M.; Ryan, W. B.; Bell, R. E.; Nitsche, F. O.: HIGH-RESOLUTION SEISMIC REFLECTION EVIDENCE FOR CHANGING SEDIMENTARY CONDITIONS IN THE HUDSON RIVER ESTUARY, PIERMONT, NY
11:15 AM	Panasik, G. M. : DETERIORATED MARSH ECOSYSTEMS: CAN THE ADDITION OF DREDGED SEDIMENT MATERIAL FOR RENOURISHMENT PURPOSES INCREASE BENTHIC MICROALGAL BIOMASS?
11:15 AM	Noll, C. J. ; Dellapenna, T. M.; Gilkinson, A.; Davis, R.; Weltz, F.: CONTROLS ON MODERN SEDIMENTARY PROCESSES AND DEPOSITIONAL ENVIRONMENTS INFLUENCED BY ANTECEDENT GEOLOGY OF A FJORD: SIMPSON BAY, PRINCE WILLIAM SOUND, ALASKA.

SPS-24: Nitrogen Inputs to the Coastal Zone at Regional Scales

Chair(s):	Robert W. Howarth, Elizabeth W. Boyer
Location:	4C4
10:15 AM	Boyer, E. W. ; Howarth, R. W.; Galloway, J. N.: RIVERINE NITROGEN EXPORT FROM THE WORLD'S WATERSHEDS
10:45 AM	McIsaac, G. F. : NET NITROGEN INPUTS AND RIVERINE N FLUXES IN THE MISSISSIPPI RIVER BASIN 1955-2002
11:00 AM	Goolsby, D. A. ; Rabalais, N. N.; Aulenbach, B. T.: USING MISSISSIPPI RIVER STREAMFLOW AND NITRATE CONCENTRATIONS TO ESTIMATE THE AREA OF THE GULF OF MEXICO HYPOXIC ZONE
11:15 AM	Kendall, C. ; Silva, S. R.; Chang, C. C.; Wankel, S. D.: SPATIAL AND TEMPORAL CHANGES IN NITROGEN SOURCES AND BIOGEOCHEMICAL CYCLING IN THE MISSISSIPPI RIVER BASIN
11:30 AM	Preston, S. D. ; Brakebill, J. W.: APPLICATION OF SPATIALLY REFERENCED REGRESSION (SPARROW) MODELS TO ESTIMATE SOURCES AND SINKS OF NITROGEN DELIVERED TO CHESAPEAKE BAY
2:00 PM	Neill, C. ; Lezberg, A.; McHorney, R.; Hinckley, E.; Chase, T.: HISTORICAL INFLUENCES OF LAND CLEARING AND BURNING ON SOIL N DYNAMICS AND N DELIVERY TO COASTAL WATERS IN THE NORTHEASTERN US COASTAL PLAIN REGION
2:15 PM	Burkholder, J. M. ; Glasgow, H. B.; Reed, R. E.; Melia, G. M.; Toms, D.; Kinder, C.; Deamer, N.; Allen, E.; Cooney, D.: A DECADE OF CHANGES IN LAND USE AND NITROGEN LOADING TO THE NEUSE ESTUARY, AND RELATED IMPACTS ON THE NEUSE AND PAMLICO SOUND, NORTH CAROLINA, U.S.A.
2:30 PM	Mallin, M. A. ; McIver, M. R.; Parsons, D. C.; Posey, M. H.; Alphin, T. D.: NITROGEN LOADING FROM A LARGE SOUTH ATLANTIC WATERSHED DRIVES A COASTAL ZONE OF ENHANCED BIOLOGICAL PRODUCTION
2:45 PM	Carruthers, T. J. ; Barnes, P.; Fourqurean, J.: LINKING RAINFALL, WATERSHED SOURCES AND SEAGRASS NUTRIENTS IN A HIGH RAINFALL TROPICAL COASTAL SYSTEM
3:30 PM	Stacey, P. E. ; Tedesco, M. A.: NITROGEN MANAGEMENT TO ALLEVIATE LONG ISLAND SOUND HYPOXIA
3:45 PM	Smith, S. V. ; Swaney, D. P.; Sandhei, P. T.; Talaue-McManus, L.; Buddemeier, R. W.; McLaughlin, C.: HUMANS, HYDROLOGY, AND THE DISTRIBUTION OF INORGANIC NUTRIENT LOADING TO THE OCEAN
4:00 PM	Harrison, J. A. ; Seitzinger, S. P.; Kroeze, C.; Caraco, N.; Dumont, E.: DISSOLVED NITROGEN AND PHOSPHORUS EXPORT TO THE COASTAL ZONE: EARLY RESULTS FROM A MULTI-ELEMENT, MULTI-FORM APPROACH AT THE REGIONAL SCALE
4:15 PM	Seitzinger, S. P. ; Harrison, J.; Kroeze, C.; Bouwman, A. F.; Dumont, E.: REGIONAL SCALE ESTIMATES OF NITROGEN EXPORT TO COASTAL SYSTEMS: WHAT MODELS DO OR DON'T TELL US

Interactive Posters

1:15 PM	Wankel, S. D. ; Paytan, A.; Misra, G.; Kendall, C.: NEW STABLE ISOTOPIC TECHNIQUES OF NITRATE APPLIED TO INVESTIGATION OF ESTUARINE NITROGEN CYCLING, ELKHORN SLOUGH, CA
---------	---

1:15 PM	Glibert, P. M. : UREA: INCREASING AGRICULTURAL USE AND INCREASING EVIDENCE OF ITS RELATIONSHIP WITH HARMFUL ALGAL BLOOMS
1:15 PM	Addy, K. ; Gold, A. J.; Nowicki, B. L.; McKenna, J. H.: GROUNDWATER DENITRIFICATION IN COASTAL RIPARIAN ZONES
1:15 PM	Swaney, D. P. ; Howarth, R. W.; Boyer, E. W.: RENUMA: A REGIONAL SCALE NUTRIENT LOADING MODEL FOR MANAGEMENT
1:15 PM	Savage, C. ; Elmgren, R.; Leavitt, P. R.: SPATIAL AND TEMPORAL IMPACTS OF SEWAGE NITROGEN FOLLOWING TREATMENT IN A COASTAL EMBAYMENT
1:15 PM	Stanhope, J. W. ; Anderson, I. C.; Perry, J. E.; Reay, W. G.: RELATIONSHIP BETWEEN WATERSHED CHARACTERISTICS AND BASE FLOW NUTRIENT DISCHARGES TO EASTERN SHORE COASTAL LAGOONS, VIRGINIA
1:15 PM	Silva, S. R. ; Kendall, C.; Wankel, S. D.: SPATIAL AND TEMPORAL CHANGES IN NUTRIENT SOURCES, TRANSFORMATIONS, AND SINKS IN THE SAN JOAQUIN RIVER SYSTEM, FROM THE CENTRAL VALLEY TO THE SAN FRANCISCO BAY
1:15 PM	Meyers, M. B.; Fitzpatrick, J. J. ; Isleib, R. R.; Mueller, J. A.: THE EFFECTS OF NUTRIENT INPUTS IN A HEAVILY URBANIZED TIDAL BAY
1:15 PM	Cardoch, L. : EMISSIONS OF N_2O IN THE NEUSE RIVER BASIN
1:15 PM	Strom, S. L. ; Bright, K.: EFFECTS ON PLANKTONIC FOOD WEBS OF ORGANIC NITROGEN USE BY BLOOM-FORMING PHYTOPLANKTON
1:15 PM	Hyfield, E. C. ; Day, J. W.; Cable, J. E.; Justic, D.: HYDROLOGIC AND BIOGEOCHEMICAL BUDGETS OF A DELTAIC ESTUARY IN SOUTHEASTERN LOUISIANA.

SPS-25: River-Estuary Interaction

Chair(s):	Gerardo M. E. Perillo, Björn Kjerfve, James Syvistki, Eric Wolanski
Location:	3B
10:15 AM	Perillo, G. M. ; Perez, D. E.; Piccolo, M. C.: INTERNAL WAVES IN HIGHLY STRATIFIED QUEQUÉN RIVER ESTUARY, ARGENTINA
10:45 AM	Milliman, J. D. : RIVER DISCHARGE TO THE COASTAL OCEAN: ROLE OF EVENTS, BOTH HUMAN AND NATURAL
11:00 AM	Syvitski, J. P. ; Kettner, A.: PREDICTING THE FLUX OF RIVER SEDIMENT INTO ESTUARIES
11:15 AM	Wolanski, E. ; Spagnol, S.: THE IMPACT OF THE ORD RIVER DAM ON CAMBRIDGE GULF, NORTHWESTERN AUSTRALIA
1:15 PM	Lane, R. R. ; Day, J. W.; Reyes, E.; Hyfield, E.: THE EFFECTS PULSED RIVERINE DISCHARGE ON CHLOROPHYLL A, SUSPENDED SEDIMENTS, SALINITY, AND TEMPERATURE IN THE BRETON SOUND ESTUARY, LOUISIANA.
1:30 PM	Muylaert, K. ; Van Wichelen, J.; Vyverman, W.: IMPACT OF FLOOD EVENTS ON THE PLANKTONIC COMMUNITY OF A FRESHWATER TIDAL ESTUARY (SCHELDE, BELGIUM)

1:45 PM	Möller, O. O. ; Fernandes, E. H.; Soares, I. D.: RIVER-ESTUARY INTERACTIONS IN PATOS LAGOON ECOSYSTEM	10:30 AM	Bronk, D. A. ; Sanderson, M. P.; See, J. H.; Koopmans, D. J.: INORGANIC AND ORGANIC NITROGEN COMPOSITION, UTILIZATION, AND PHOTOCHEMISTRY IN THE ALTamaha AND SAVANNAH RIVERS OF GEORGIA, U.S.A.
2:00 PM	Depetris, P. J. ; Gaiero, D. M.; Probst, J. L.; Kempe, S.: CARBON AND NUTRIENT DYNAMICS IN PATAGONIAN RIVERS	10:45 AM	Tobias, C. ; Peterson, B.; Deegan, L.; Fry, B.; Vallino, J.; Holmes, R.; Hughes, J.; Cieri, M.: HYDROLOGIC AND BIOLOGICAL CONTROLS ON THE FATE OF WATERSHED-DERIVED NITROGEN IN ESTUARIES: INSIGHTS FROM "WHOLE-ESTUARY" STABLE ISOTOPE ENRICHMENTS
2:15 PM	Sepulveda, H. H. ; Valle-Levinson, A.; Framinan, M. B.: OBSERVATIONS OF SUBIDAL AND TIDAL FLOW IN THE RIO DE LA PLATA ESTUARY	11:00 AM	Torres-Valdes, S. ; Purdie, D. A.: THE IMPORTANCE OF PHYTOPLANKTON ACTIVITY IN CONTROLLING NUTRIENT LEVELS IN A TEMPERATE MACROTIDAL ESTUARY; SOUTHAMPTON WATER, UK
2:30 PM	Chisholm, T. A. ; Jay, D. A.: SUSPENDED SEDIMENT INPUT TO THE COLUMBIA RIVER ESTUARY - QUANTITY AND QUALITY	11:15 AM	Watson, A. M. ; Mulholland, M. R.; Bernhardt, P.; Rocha, A.; Reynolds, S.; Boneillo, G.: THE RELATIVE IMPORTANCE OF PHOTOTROPHY, OSMOTROPHY AND PHAGOTROPHY TO DINOFLAGELLATE NUTRITION OVER A SEASONAL TIME SCALES.
2:45 PM	Framiñan, M. B. ; Brown, O. B.: VARIABILITY OF THE TURBIDITY FRONT IN THE RÍO DE LA PLATA ESTUARY AND THE RESPONSE TO RIVER DISCHARGE, TIDES AND WIND STRESS	11:30 AM	Parker, A. E. ; Sharp, J. H.: ^{13}C AND ^{15}N ISOTOPE TAGGING EXPERIMENTS TO ASSSES THE IMPORTANCE OF THE MICROBIAL LOOP IN ESTUARINE SYSTEMS
3:30 PM	Holmes, R. M. ; McClelland, J. W.; Peterson, B. J.; Zhulidov, A. V.; Gordeev, V. V.; Milburn, D.; Brabets, T. P.; Makkaveev, P. N.; Shiklomanov, I. A.: BIOGEOCHEMICAL FLUXES TO LARGE ARCTIC ESTUARIES	1:15 PM	Anderson, I. C. ; Parker III, F. M.; McGlathery, K. J.: PARTITIONING OF MINERALIZED NITROGEN IN SEDIMENTS OF SHALLOW COASTAL ECOSYSTEMS
3:45 PM	Chawla, A. ; Baptista, A.; Zhang, Y.; Wilkin, M.: RESIDUAL CIRCULATION AND SALT INTRUSION IN THE COLUMBIA RIVER ESTUARY	1:30 PM	Barrón, C. ; Middelburg, J.; Duarte, C. M.: ORGANIC MATTER RETENTION WITHIN SEAGRASS (<i>POSIDONIA OCEANICA</i>) SEDIMENTS: AN <i>IN SITU</i> ISOTOPIC LABELLING EXPERIMENT
4:00 PM	Jordan, T. E. ; Cornwell, J. C.; Boynton, W. R.: CHANGES IN PHOSPHORUS BIOGEOCHEMISTRY ACROSS THE TRANSITION FROM FRESHWATER TO SALTWATER	1:45 PM	Canuel, E. A. ; Spivak, A.; Waterson, E. J.; Duffy, J. E.: ACCUMULATION AND COMPOSITION OF ORGANIC CARBON IN EELGRASS BED SEDIMENTS: EFFECTS OF BENTHIC BIODIVERSITY AND FOOD WEB STRUCTURE
4:15 PM	Powell, S. L. ; Rumrill, S. S.: NERR- SWMP: A FRAMEWORK TO ASSESS SHORT-TERM VARIABILITY AND LONG-TERM CHANGE IN THE TIDAL CHANNELS OF THE SOUTH SLOUGH ESTUARY, OR	2:00 PM	Mutchler, T. ; Sullivan, M. J.; Fry, B.; Zimba, P. V.; Sanderson, P. A.: RESPONSE OF SEAGRASS COMMUNITY FOOD WEBS TO NUTRIENT ENRICHMENT WITH A ^{14}N -LABELED FERTILIZER
Interactive Posters			
11:30 AM	Bledsoe, E. L. ; Phlips, E. J.: THE RELATIONSHIPS BETWEEN PHYTOPLANKTON BIOMASS, NUTRIENT LOADING AND HYDRODYNAMICS IN AN INNER-SHELF ESTUARY	2:15 PM	Hamersley, M. R. ; Howes, B. L.: COMPETITION FOR REGENERATED AMMONIUM BETWEEN PLANT UPTAKE AND COUPLED NITRIFICATION-DENITRIFICATION IN SALT MARSH SEDIMENTS
11:30 AM	Raber, M. J. ; Leonard, L. A.; Benedetti, M. M.: CHARACTERISTICS OF SEDIMENTS ENTERING AND RETAINED IN THE LOWER CAPE FEAR RIVER ESTUARY, NORTH CAROLINA	2:30 PM	Carman, K. R. ; Maddi, P.; Fry, B.; Wissel, B.: SEASONAL VARIATION IN THE USE OF PRIMARY PRODUCTION BY MEIOFAUNA IN A LOUISIANA SALTMARSH
11:30 AM	Jiann, K. T. ; Wen, L. S.: TRACE METAL DYNAMICS IN ESTUARINE WATERS OF THE DANSHUEI RIVER (TAIWAN), AN ANOXIC ESTUARY	2:45 PM	Currin, C. A. ; Levin, L. A.; Carman, K. R.: WHICH SCUM IS WHICH? UNRAVELLING BENTHIC ALGAL-BASED FOOD WEBS USING ISOTOPIC TRACER TECHNIQUES
11:30 AM	Alphin, T. D. ; Posey, M. H.; Leonard, L. A.; Hackney, C. T.: FLUCTUATIONS IN INFANAL AND EPIFAUNAL UTILIZATION OF TIDAL WETLANDS ACROSS AN ESTUARINE GRADIENT IN RESPONSE TO CHANGING SALINITY, TIDAL AMPLITUDES, AND FLOW	3:30 PM	Levin, L. A. ; Neira, C.: TROPHIC PATHWAYS OF INVASIVE <i>SPARTINA</i> REVEALED THROUGH ^{15}N ENRICHMENTS
11:30 AM	Fulweiler, R. W. ; Nixon, S. W.: QUANTIFYING CARBON AND NUTRIENT EXPORT FROM THE PAWCATUCK WATERSHED TO LITTLE NARRAGANSETT BAY, RHODE ISLAND/CONNECTICUT	3:45 PM	MacKenzie, R. A. ; Dionne, M.: ENERGY TRANSFER ON THE SURFACE OF SOUTHERN MAINE SALT MARSH SYSTEMS: A SALT MARSH POOL (PANNE) MODEL
SPS-26: Insights into Estuarine Food Webs and Organic Matter Cycling from Isotopic Tracer Enrichment Studies			
Chair(s):	Lisa A. Levin, Carolyn Currin	4:00 PM	Montoya, J. P. ; Rathbun, K. M.; Sheats, N.; Michener, R. H.; Mayo, C. S.: ISOTOPIC TRACKING OF SEWAGE NITROGEN IN MASSACHUSETTS BAY
Location:	3A	4:15 PM	Dunton, K. H. ; Schonberg, S. V.; Alexander, H. D.; Jackson, K.: N-ASSIMILATION OF TREATED WASTEWATER INTO A GULF COAST ESTUARINE FOOD WEB USING ^{15}N AS AN ISOTOPIC TRACER
10:15 AM	Wiegner, T. N. ; Kaplan, L. A.; Newbold, J. D.; Ostrom, P. H.; Gandhi, H.: DISSOLVED ORGANIC CARBON UPTAKE IN A PIEDMONT STREAM DETERMINED BY A WHOLE-STREAM ^{13}C TRACER ADDITION		

SYM-06: Sustainability Science and Estuarine Habitat Restoration: An International Perspective on Integrating Ecology and the Social Sciences

Chair(s): Michael P. Weinstein, Denise J. Reed, R. Eugene Turner

Location: 4C3

10:15 AM	Baird, R. C. : SUSTAINABILITY, SCIENCE AND ESTUARINE HABITAT RESTORATION: AN INTERNATIONAL PERSPECTIVE ON INTEGRATING ECOLOGY AND THE SOCIAL SCIENCES
10:30 AM	Higgs, E. S. : THE TWO CULTURE PROBLEM: ECOLOGICAL RESTORATION AND THE INTEGRATION OF KNOWLEDGE
11:00 AM	Hobbs, R. J. : COMBINING SCIENTIFIC UNCERTAINTY WITH VALUE-LADEN DECISIONS: HABITAT RESTORATION IN THE REAL WORLD
11:15 AM	Aronson, J. C. ; Clewell, A. F.: RESTORING NATURAL CAPITAL - ON LAND, AT SEA AND IN BETWEEN
1:15 PM	Zedler, J. B. : REPORT CARD ON WETLAND BIODIVERSITY: ARE WE FLUNKING SUSTAINABILITY 101?
1:30 PM	Turner, R. E. : CRAWLING UP THE POLICY-SHED
1:45 PM	Swart, J. ; van der Windt, H.: VISIONS ON NATURE AND SUSTAINABILITY
2:00 PM	Pfadenhauer , J. : INTEGRATION OF RESTORATION GOALS IN (CENTRAL) EUROPEAN LAND USE SYSTEMS
2:15 PM	Thom, R. M. ; Williams, G. D.: BALANCING THE NEED TO DEVELOP COASTAL AREAS WITH THE DESIRE FOR MORE FISHERIES RESOURCES: IS NET ECOSYSTEM IMPROVEMENT POSSIBLE?
2:30 PM	Weinstein, M. P. ; Balletto, J. H.: PARALLELS IN VALUATION APPROACHES TO ESTUARINE HABITAT RESTORATION IN EUROPE AND THE UNITED STATES

2:45 PM **Mitsch, W. J.**: YOU CAN'T RESTORE THE ESTUARY IF YOU DON'T FIX THE WATERSHED: A CASE STUDY OF THE MISSISSIPPI RIVER BASIN

3:30 PM **Ishikawa, M.**: MOSAIC STRUCTURE OF HUMAN USES AND HABITAT RESTORATIONS IN TOKYO BAY, AND THE STRATEGIES FOR ENVIRONMENTAL MANAGEMENT

3:45 PM **Peterson, S. B.**; Teal, J. M.: NUTRIENT LOADING OVERLAY DISTRICTS FOR COASTAL LAND USE PLANNING

4:00 PM **Teal, J. M.**; Peterson, S. B.: THE INTERACTION BETWEEN SCIENCE AND POLICY IN CONTROL OF PHRAGMITES IN OLIGOHALINE MARSHES OF DELAWARE BAY

4:15 PM **Handel, S. N.**: ECOLOGICAL AND REGULATORY LIMITS TO RESTORING COASTAL HABITATS IN URBAN CENTERS.

Interactive Posters

11:30 AM	Nordstrom, K. F. : RESTORATION POTENTIAL FOR COASTAL HABITATS ON INTENSIVELY DEVELOPED BARRIER ISLANDS
11:30 AM	Flessa, K. W. ; Rowell, K.; Cintra-Buenrostro, C. E.; Dettman, D. L.: NATURE'S FAIR SHARE: HOW MUCH FRESHWATER IS NEEDED TO RESTORE MEXICO'S COLORADO RIVER ESTUARY?
11:30 AM	Sklar, F. ; Newman, S.; Gawlik, D.; Ogden, J.; Rutcher, K.; Coronado-Molina, C.: THE SCIENTIFIC UNDERPINNINGS AND MANAGEMENT STRUCTURE OF EVERGLADES RESTORATION
11:30 AM	Thorhaug, A. : SUSTAINABLE FISHERIES NURSERIES THROUGH SEAGRASS RESTORATION: ATLANTIC, PACIFIC, ARABIAN GULF MODELS
11:30 AM	Van den Bergh, E. C. ; Meire, P.; Van Damme, S.; Graveland, J.; Baten, I.: ECOLOGICAL REHABILITATION OF THE SCHELDE ESTUARY (NW-EUROPE; NL-BE): LINKING ECOLOGY, SAFETY AGAINST FLOODS AND ACCESSIBILITY FOR PORT DEVELOPMENT.

AUTHOR INDEX

A

Abbott, J. 54
Abboud, E. R. 33
Abdella, J. A. 52
Abdelrhman, M. 31
Able, K. W. 33, 36
Ablog, M. A. 28
Adamack, A. 39, 50
Adamack, A. T. 39
Adams, A. 46, 48
Adams, A. J. 48
Adams, D. A. 37
Adams, J. L. 56
Addy, K. 62
Adriaenssens, V. 37
Agrawal, Y. C. 51
Aguíñiga, S. 23, 25
Ahrens, M. 46
Aidar, E. 54
Aioi, K. 25
Akabane, H. 49
Akman, O. 48, 52
Akob, D. 45
Alafita, H. V. 31
Alatorre-Mendieta, M. A. 38
Alber, M. 25, 35, 42, 51, 60
Albert, E. M. 28
Albertson, S. L. 52
Alcantara-Eguren, A. 22
Alderson, C. 56
Alexander, C. 25, 49, 61
Alexander, C. R. 25
Alexander, H. D. 43, 63
Alexander, J. 27
Alford, M. H. 36
Allee, B. 25
Allen, D. M. 36, 47, 60
Allen, E. 62
Allen, L. J. 57
Allen, W. 31
Allison, M. A. 55
Alperin, M. J. 23
Alphin, T. 42, 57, 62, 63
Alphin, T. D. 42, 62, 63
Althauser, L. L. 46
Altieri, A. H. 52
Alvarez-Guillen, H. 43
Ambler, J. W. 50, 59
Ambrose, R. 53
Amos, C. L. 49
An, S. 23
Andersen, C. P. 44
Anderson, B. 33, 44, 52, 57
Anderson, B. A. 44, 52, 57
Anderson, E. P. 25
Anderson, G. H. 52, 53
Anderson, I. C. 26, 48, 62, 63

Anderson, M. R. 37
Anderson, N. J. 59
Anderson, S. 46, 54, 55
Anderson, S. L. 54
Anderson, S. S. 46
Andrews, A. G. 42, 46
Apitz, S. E. 32, 38
Apodaca, M. M. 25
Appeldoorn, R. S. 36
Apple, J. K. 47
Aramaki, T. 56
Aranda-Cirerol, N. 32
Arango, H. 34
Arango, H. G. 34
Archer, J. A. 43, 45
Arias, E. 38
Armitage, A. R. 38, 46
Armstrong, D. 26, 55
Armstrong, D. A. 26, 55
Armstrong, S. J. 52
Arneborg, L. 36
Arnold, G. 44
Arnold, T. M. 49
Arnold, W. S. 39
Aronson, J. C. 64
Arreola Lizarraga, J. A. 35
Arrivillaga, A. 43
Aryuthaka, C. 43, 44
Ashley, A. 58
Asmus, H. 26
Asmus, R. 26
Atilla, N. 52
Attrill, M. J. 42
Auer, C. L. 28
Aulenbach, B. T. 62
Austin, H. M. 32
Avent, S. 27
Avery, W. M. 44
Aveytua-Alcazar, L. 28
Awal, S. 31
Ayvazian, S. G. 37

B

Baba, M. 56
Babson, A. L. 24, 52
Bacher, C. 60
Backman, T. W. 25
Bailey, A. R. 37
Bailey, E. M. 23
Bain, M. 48
Baird, D. 26, 60
Baird, R. C. 64
Baird, S. 55
Baker, J. A. 27
Baker, J. D. 37
Baker, M. 47
Baksh, R. 49

Bale, A. J. 56
Ball, D. A. 34
Ball, M. C. 50
Balletto, J. H. 64
Baltz, D. M. 23, 35, 39, 47
Banas, N. S. 24
Banik, A. 60
Banks, P. D. 39
Banta, G. T. 51
Baptista, A. 33, 34, 63
Baptista, A. M. 33, 34
Barba, E. 28
Barba, K. 31
Barbosa, A. A. 55
Barile, P. J. 22
Barker, A. 54
Barnaba, E. M. 48
Barnes, J. 33
Barnes, P. 62
Barnes, T. B. 25
Barnes, T. K. 58
Baross, J. A. 48
Barriga, I. S. 28
Barrón, C. 63
Barsh, R. L. 25
Bartoli, M. 60
Barton, J. L. 52
Bashkin, V. N. 60
Bastyan, G. 49
Baten, I. 64
Batiuk, R. A. 31, 33
Battisto, G. M. 52
Bauer, J. E. 35, 59
Beach, K. S. 28
Beacham, T. 47
Beauchamp, D. A. 37, 46
Beck, A. 44
Beck, J. 31, 45, 57
Beck, J. E. 31, 57
Beck, M. W. 32, 46
Becker, K. 47
Beets, J. P. 46
Beever, J. W. 32, 46
Beever, L. B. 32
Beighley, E. 60
Bell, R. E. 61
Bell, S. S. 43, 48, 56
Belpaire, C. 37
Beltran, H. S. 39, 42
Bemis, B. E. 25
Benedetti, M. M. 63
Benfield, M. C. 48
Bennett, R. J. 28
Bennett, W. A. 51, 54
Berg, P. 36
Bergamaschi, B. A. 25
Bergen, B. 31
Bergstrom, P. 58

Berkenbusch, K. 46
Berkompas, B. 46
Berman, M. R. 52
Bernhard, A. E. 52
Bernhardt, P. 26, 27, 63
Berno, D. 25, 57
Berno, D. M. 25
Berquist, H. E. 57
Berry, H.
 37, 43, 44, 45, 49, 50
Berry, H. D. 37, 43, 45, 49
Bertness, M. D. 22, 31, 59, 60
Beskenis, J. L. 37
Bianchi, T. S. 59
Biber, P. D. 47, 49
Bieri, J. G. 57
Bigford, T. 52
Bilkovic, D. M. 52
Bills, J. M. 38
Bingler, L. S. 38
Bishop, M. A. 42
Bishop, T. D. 38, 42
Blaas, M. 34
Black, R. A. 32
Blackburn, B. R. 54
Blackmon, D. 39, 46
Blackmon, D. C. 39
Blake, A. 38
Blake, A. C. 38
Blake, D. A. 33
Blake, J. A. 26, 60
Blake, R. E. 38
Blakesley, B. A. 25
Blanton, J. O. 28
Bledsoe, E. L. 53, 63
Blickley, M. 28
Bloch, P. 57
Bloomfield, A. L. 39
Blukis Onat, A. R. 25
Blum, L. K.
 34, 45, 56, 57, 60
Blumberg, A. F. 24
Blundon, J. J. 37
Bobker, G. 37
Bochdansky, A. B. 48
Bode, A. 31
Bodensteiner, L. 33
Boesch, D. F. 51, 59
Boese, B. L. 49
Boettcher, A. A. 49
Bohlen, W. F. 61
Boicourt, B. C. 51
Boicourt, W. 24, 34, 48
Boicourt, W. C. 24, 34
Bollens, S. M. 25, 27, 38, 48
Bolton-Warberg, M. 56
Boneillo, G. 26, 27, 63
Bonnaventura, C. 24

- Boothe, P. N. 31
 Borde, A. B. 49
 Borgatti, R. 39
 Bornhold, B. D. 33, 60
 Borowitzka, M. A. 33
 Bortman, M. 32
 Bos, J. K. 52
 Bottom, D. L. 36, 37, 46
 Botton, M. L. 39
 Boumans, R. M. 34, 50
 Bouwman, A. F. 62
 Bowen, J. L. 28
 Bowen, M. 39
 Boyer, E. W. 59, 62
 Boyer, J. N.
 26, 27, 28, 35, 54
 Boyer, K. E. 38
 Boynton, W. R.
 23, 33, 45, 54, 61, 63
 Boynton, W. S. 23
 Bozek, C. M. 49
 Brabets, T. P. 63
 Braby, C. E. 22
 Brakebill, J. W. 62
 Brasseur, L. 55, 56
 Brasseur, L. H. 55, 56
 Breaux, A. M. 46
 Breine, J. J. 37
 Breitburg, D. L. 46, 50
 Bremner, A. 37
 Brennan, J. 26, 38, 39, 49
 Brennan, J. S. 26, 38, 39
 Brenon, I. 60
 Bretsch, K. P. 47
 Bricker, E. 43
 Bricker, S. 32, 35
 Bricker, S. B. 35
 Bright, K. 62
 Brinsley, M. D. 51, 56
 Brinson, M. 34, 46
 Brinson, M. M. 34
 Briscoe, E. 35, 36
 Brockmeyer, R. E. 56, 57
 Brocksmith, R. F. 39
 Bronikowski, J. L. 61
 Bronk, D. A. 63
 Bronson, J. M. 27
 Brooks, K. M. 42
 Brooks, M. 61
 Brooks, R. A. 52
 Brouwer, M. 47
 Browder, J. 28
 Brown, C. A. 36, 58
 Brown, D. 25
 Brown, G. 24
 Brown, K. M. 39
 Brown, M. E. 39
 Brown, O. B. 63
 Brown, S. A. 33
 Brown-Peterson, N. J. 47
 Browne, J. 44
 Brubaker, J. M. 35
 Bruckner, R. J. 58
 Bruno, M. S. 52, 59
 Brusati, E. D. 38
 Brush, M. J. 60
 Bryant, M. 46
 Brylinsky, M. 49
 Buchanan, C. 31, 37
 Buchsbaum, R. N. 43
 Buck, T. L. 60
 Buckley, E. 53, 59
 Buckley, E. B. 59
 Buckley, R. M. 37
 Budd, J. W. 54
 Buddemeier, R. W. 55, 62
 Buhle, E. R. 22
 Bulthuis, D. A. 43
 Burau, J. R. 35, 36
 Burd, B. 33
 Burd, J. J. 50
 Burdick, D. 49, 56
 Burdick, D. M. 49
 Burdige, D. J. 33
 Burger, N. H. 59
 Burgess, R. 38
 Burke, P. 52, 59
 Burke, P. B. 52
 Burkholder, J. M.
 24, 38, 56, 62
 Burla, M. 33
 Burns, J. 43, 44
 Burns, J. A. 43
 Burton, J. L. 25
 Burton, W. 27, 37, 39
 Burton, W. H. 37, 39
 Bush, R. A. 36
 Bushaw-Newton, K. L. 33
 Bushek, D. 36, 42, 43
 Buskey, E. J. 24
 Butler, M. J. 50
 Butler, T. J. 60
 Butzler, R. E. 25
 Buzzelli, C. 33, 48, 60
 Buzzelli, C. P. 33
 Byrne, R. H. 52
 Byron, D. A. 43
- C**
- Cabaço, S. 54
 Cable, J. 36, 60, 62
 Cable, J. E. 36, 62
 Cabral, H. N. 47
 Cadien, D. B. 37
 Caffrey, J. M. 25
 Cahoon, D.
 27, 34, 45, 56, 57, 60
 Cahoon, D. R.
 27, 34, 45, 56, 57, 60
 Cahoon, L. 31, 57
 Cahoon, L. B. 31
 Cajal-Medrano, R. 28
 Caldow, C. 60
 Caldwell, J. D. 54
 Caldwell, P. 23, 58
 Caldwell, P. A. 23
 Calfee, M. W. 28
 Calfee, W. 61
 Callahan, M. R. 52
 Callaway, J. C. 51
 Calvert, S. 23
 Camacho-Ibar, V. F. 28
 Camisa, M. 43
 Campbell, D. 38
 Campbell, J. 44, 53
 Campbell, J. G. 53
 Campbell, R. W. 48
 Campbell, S. J. 31
 Campfield, P. A. 39
 Cannon, G. A. 24
 Canuel, E. A. 35, 46, 63
 Capone, D. G. 43
 Caraco, N. 48, 62
 Caraco, N. F. 48
 Carbotte, S. M. 61
 Cardin, J. A. 58
 Cardoch, L. 62
 Cardona-Olarte, P. P. 52
 Carle, D. 39
 Carlisle, B. K. 27
 Carlisle, B. K. 37
 Carlisle, E. L. 43
 Carlson, P. 33, 44, 45, 57, 59
 Carlson, P. R. 33, 59
 Carman, K. R. 63
 Carmichael, R. H. 25
 Carpenter, K. 37
 Carr, M. I. 55
 Carr, S. D. 39, 42
 Carriquiry, J. D. 26, 28
 Carriquiry-Beltran, J. D. 25
 Carruthers, T. J. 62
 Carter, D. B. 33
 Carter, E. W. 57
 Carter, J. 38, 43
 Casillas, E. 42
 Castañeda, E. 22
 Castellanos, D. L. 45
 Castello, J. P. 28
 Casteneda, E. 34, 50
 Castillo, G. C. 22, 47
 Catena, J. G. 56
 Cayan, D. 46
 Cebrian, J. 28, 45, 53
 Cederholm, C. J. 42
 Cerco, C. F. 33, 55
 Cervantes-Duarte, R. L. 23
 Chadwick, D. 32, 38, 39
 Chadwick, D. B. 32, 38, 39
 Chalmers, A. C. 43
 Chamberlain, A. H. 25
 Chamberlain, R. H. 31, 44
 Chang, C. C. 62
 Chant, R. J. 36, 50, 56
 Chao, S. Y. 52, 56
 Chaplin, G. 49
 Chapman, J. W. 22
 Charpentier, M. 31, 59, 60
 Charulata, S. 49
 Chase, M. A. 61
 Chase, T. 62
 Chawla, A. 33, 63
 Cheeseman, J. 45
 Chen, M. 61
 Chen, R. F. 24
 Chen, X. C. 23
 Chen, Y. C. 38
 Cheney, D. P. 39, 42
 Cherr, G. N. 54, 55
 Cherrier, J. 35, 61
 Cherrier, J. E. 35
 Cherry, J. S. 53
 Chesney, E. J. 23, 39
 Chestnut, D. E. 37
 Chigbu, P. 49
 Childers, A. R. 24
 Childers, D. L. 55, 56, 60
 Childs, C. R. 25
 Childs, J. N. 31
 Chin-Leo, G. 53, 55
 Chintala, M. 37
 Chisholm, T. 52, 63
 Chisholm, T. A. 63
 Chisholm-Brause, C. J. 39
 Chmura, G. L. 34, 36
 Cho, G. I. 57
 Chockalingam, C. V. 52
 Choi, K. H. 38
 Choi, W. H. 53
 Choumiline, E. 61
 Christensen, J. D. 60
 Christian, J. C. 46
 Christian, R.
 31, 34, 42, 46, 60
 Christian, R. R. 34, 42, 60
 Christy, A. E. 39, 42
 Cicchetti, G. 23, 31
 Cieri, M. 63
 Cinkovich, A. M. 25
 Cintra-Buenrostro, C. E. 64
 Civille, J. C. 32, 33
 Clark, L. B. 27
 Clesceri, E. J. 23
 Clewell, A. F. 64
 Clinton, P. J. 45
 Cloern, J. E. 32, 35, 50, 55
 Clough, L. 28, 61
 Clough, L. M. 28
 Cluer, B. 52
 Cobb, D. 59
 Cochran, J. K. 44
 Coen, L. 33, 43, 56
 Coen, L. D. 43, 56
 Coffin, A. W. 52

- Cohen, D. R. 61
 Cohen, R. A. 32
 Coiro, L. 31
 Colby, D. R. 50
 Cole, F. A. 23, 38
 Cole, K. B. 33
 Cole, M. L. 52
 Coleman, R. A. 26, 42
 Coles, R. G. 31, 45
 Collazo, J. A. 31, 56
 Collins, B. D. 24
 Collins, J. A. 26
 Combs, D. C. 46
 Comin, F. A. 26, 32
 Comyns, B. H. 49
 Condon, R. H. 55
 Connell, S. D. 22
 Connelly, W. J. 32
 Conner, E. 39
 Connolly, R. M. 26
 Connor, M. S. 31
 Conrads, P. A. 33
 Coombs, S. 60
 Cooney, D. 56, 62
 Cope, J. 55
 Copping, A. E. 31
 Corbett, C. A. 58
 Corbett, D. R. 28, 61
 Corcoran, A. 28, 45, 53
 Cordell, J.
 22, 38, 39, 45, 46, 49
 Cordell, J. R. 22, 38, 39, 49
 Cordova, A. L. 32
 Cormier, N. 34, 43, 50
 Cormier, S. C. 60
 Cornelisen, C. D. 23
 Cornu, C. E. 56, 58
 Cornwell, J. C.
 23, 25, 26, 38, 63
 Cornwell, T. J. 36, 37
 Coronado-Molina, C.
 43, 45, 64
 Corrozi, M. B. 32
 Costa, M. J. 47
 Costanza, R. 50
 Cothran, J. 53
 Cotter, A. M. 47
 Cotton, P. A. 42
 Courtenay, S. C. 37
 Coutinho, F. B. 49
 Cowan, J. L. 61
 Cowan Jr., J. H. 39, 47
 Cox, K. M. 52
 Craft, C. 27, 46, 56
 Craft, C. B. 27, 46
 Craig, A. H. 25
 Craig, L. J. 60
 Craven, W. G. 31
 Crawford, M. 42
 Creasser, J. C. 26
 Croft, A. L. 54, 56, 57
 Cronin, T. 51, 55, 59
 Cronin, T. M. 55, 59
 Crump, B. C. 48
 Crusius, J. 23
 Cuba, T. R. 45
 Culberson, S. D. 43
 Cullen, K. 33, 56
 Culter, J. K. 23
 Culver, M. E. 24
 Culver, M. E. 24
 Cummings, V. J. 46
 Cunha, A. 49
 Cunniff, K. M. 43
 Curran, M. C. 25
 Currin, C. A. 63
- D**
- da Silva, S. N. 60
 Daborn, G. R. 49
 Dailey, S. K. 26, 27, 35
 Dailey, W. H. 47
 Dalkey, A. 37
 Dame, J. K. 60
 Dame, R. F. 36
 Daniel, J. 61
 Daoust, R. J. 59
 Darrow, E. S. 55
 Dasey, M. W. 28
 Dauer, D. M. 37
 Daumer, K. A. 56
 Davey, E. W. 58
 David, C. P. 39
 Davidson, B. M. 38
 Davidson-Arnott, R. G. 45
 Davis, C. L. 58
 Davis, J. L. 25
 Davis, J. P. 42
 Davis, R. 26, 61
 Davis, R. H. 26
 Davis, S. E. 25
 Dawes, C. J. 43
 Day, J. N. 38, 60
 Day, J. W.
 31, 38, 42, 43, 51, 57, 60, 62
 Day, R. H. 52
 De Brabandere, L. 42
 de Jonge, V. N. 61
 De Pauw, N. 37
 De Swart, H. E. 52
 Deacutis, C. 35
 Deamer, N. 62
 Dean, A. 25, 27
 Dean, A. F. 25
 DeAngelis, D. L. 25, 50
 Decker, C. J. 60
 Decker, M. B. 54
 Deegan, L. 37, 50, 63
 Deegan, L. A. 37, 50
 deFur, P. L. 32
 Dehairs, F. 42
 Del Castillo, C. 59
 del Giorgio, P. A. 47
 Delano, K. A. 53
 DeLaune, R. D. 57
 Dellapenna, T. M. 55, 56, 61
 Demopoulos, A. W. 43
 Denslow, N. 47
 Depetris, P. J. 63
 Detenbeck, N. 38
 Detenbeck, N. E. 38
 Dethier, M. 32, 37, 50
 Dethier, M. N. 32, 37
 Dettinger, M. 46
 Dettman, D. L. 64
 Dettmann, E. 31, 53, 58
 Dettmann, E. H. 53, 58
 Detwiler, S. 54
 Deur, D. E. 24
 Devlin, D. J. 50
 DeVries, P. 53
 DeWitt, T. H. 23, 53
 Di Iorio, D. 55
 Di Lorenzo, E. 34
 Diaz, R. J. 26, 37, 46, 57
 Dick, A. 24
 Dickhut, P. 52, 55
 Dickhut, R. M. 39
 DiDomenico, G. P. 33
 Diefenderfer, H. L. 56
 Dierssen, H. M. 53, 60
 Ding, P. X. 45
 Dionne, M. 63
 Doaty, S. 33
 Dobberfuhl, D. 45
 Doctor, K. 32
 Dodson, J. J. 48
 Dodson, N. J. 52
 Doering, P. H. 28, 31, 44
 Dolan, T. W. 50
 Donn, T. M. 52
 Donovan, C. 25, 26, 33
 Donovan, L. A. 45
 Dortch, Q. 24, 59
 Doucette, G. J. 24
 Douglass, D. L. 49
 Downing, B. D. 25
 Doyle, T. W. 52
 Draheim, R. C. 22
 Drake, B. G. 34
 Drury McCall, D. M. 43
 Duarte, C. M. 34, 35, 63
 Ducklow, H. W. 35
 Duffy, E. J. 37
 Duffy, J. E. 63
 Dugdale, R. C. 26
 Duke, N. C. 50
 Dukes, A. W. 53
 Dumbauld, B. 25, 26, 32
 Dumbauld, B. R. 26, 32
 Dumont, E. 62
 Duncan, D. A. 61
 Dunsmuir, A. 28, 45, 53
- E**
- Dunsmuir, A. L. 53
 Dunton, K. H. 28, 37, 43, 63
 Duque, G. 35
 Durako, M. J. 25, 34, 49
 Dusterhoff, S. R. 47
 Dyble, J. 24, 60

F

- Ebbesmeyer, C. C. 24
 Ebel, C. 39
 Eberhardt, A. 56
 Eckerlin, G. 48
 Ederington-Hagy, M. 26
 Edgar, G. J. 37
 Edmiston, L. 46
 Edwards, K. A. 36
 Eggleston, D. B. 54
 Ehlinger, G. S. 56
 Eimers, J. L. 31
 Eldridge, P. M. 50
 Ellis, J. I. 50
 Ellis, K. 37, 38
 Ellis, K. M. 38
 Ellis, W. L. 56
 Elmgren, R. 62
 Elston, S. A. 28
 Elwany Hany, M. S. 38
 Engle, V. D. 31, 38
 Epifanio, C. E. 53
 Epstein, M. 31
 Ercken, D. 37
 Erickson, A. A. 43
 Erickson, D. E. 25
 Eriksen, C. C. 52
 Erwin, R. M. 34, 45
 Esquivel, A. H. 28
 Estevez, E. D. 25
 Evans, C. T. 53
 Evans, N. R. 24
 Evens, T. J. 24
 Ewanchuk, P. J. 60
 Ewe, S. M. 43
 Ewel, K. C. 43
 Eyre, B. D. 46

- Ferdie, M. 38
 Ferenc, K. 57
 Ferguson, A. J. 46
 Fernandes, E. H. 63
 Fernández, F. P. 28
 Ferner, M. C. 39
 Ferraro, S. P. 23, 38
 Ferrat, L. 49
 Ferreira, J. G. 35
 Filipowicz, A. B. 53
 Filley, T. R. 59
 Findlay, S. 35, 48
 Findlay, S. E. 48
 Finkbeiner, M. 33, 56
 Finkbeiner, M. A. 33
 Finlayson, D. P. 55
 Fioravanti, G. 46
 Fischer, D. 35
 Fisher, G. 50
 Fisher, K. J. 26
 Fitz, H. C. 34
 Fitzpatrick, J. J. 34, 62
 Flannagan, C. 61
 Flannery, M. S. 23
 Fleming, I. A. 37
 Flessa, K. W. 64
 Fletcher, M. 53, 59
 Fletcher, M. A. 59
 Fletcher, R. S. 49
 Fogel , M. L. 45
 Fogel, M. L. 44, 50
 Foley, N. 60
 Fong, D. A. 36
 Fong, P. 32, 38, 46, 59
 Fonseca, M.
 33, 43, 47, 48, 49, 50, 57
 Fonseca, M. S.
 33, 43, 47, 48, 49, 50
 Fontenelle, G. R. 32
 Foose, S. E. 60
 Ford, K. H. 28
 Foret, J. D. 58
 Fortes, M. 34, 45
 Fortes, M. D. 34
 Forward, R. B. 39, 42
 Foster, A. M. 52, 60
 Fourqurean, J.
 33, 38, 43, 58, 62
 Fourqurean, J. W. 38, 43, 58
 Fram, J. 53, 58
 Fram, J. P. 53
 Fram, M. S. 25
 Framinan, M. B. 63
 Framiñan, M. B. 63
 Frank , J. M. 45
 Frank, J. 23, 28, 61
 Frank, J. E. 28
 Frankovich, T. 33, 59
 Frankovich, T. A. 59
 Franz, B. 26
 Franz, D. R. 43
 Fraser, I. E. 44
 Frazer, T. F. 39
 Frazer, T. K. 43, 59, 60
 Freeman, A. S. 32
 Fresh, K. 49, 53, 55
 Fresh, K. L. 49, 55
 Frias-Torres, S. 39
 Frick, A. 39
 Frickers, P. E. 56
 Friedman, I. 43
 Friedrichs, C. T.
 31, 35, 45, 51, 52, 55, 61
 Frischer, M. E. 50
 Frontera Pizá, T. M. 46
 Fruland, R. 31
 Fry, B.
 28, 35, 43, 50, 54, 60, 63
 Fugate, D. C. 52
 Fujii, R. 25
 Fujii, Y. 22
 Fullagar, J. A. 43
 Fullerton, B. J. 38, 56, 59
 Fulweiler, R. W. 63
- G**
- Gace, A. 28
 Gaekle, J. L. 56
 Gaiero, D. M. 63
 Galavotti, H. S. 53
 Gallagher, E. D. 26, 60
 Gallagher, J. L. 33
 Gallegos, C. L. 47, 49
 Galloway, J. N. 62
 Galloway, W. 59
 Gandhi, H. 63
 Ganju, N. 25, 51
 Ganju, N. K. 51
 Gann, T. T. 60
 Gardner, B. 24
 Gardner, W. S. 23
 Garland, J. L. 60
 Garman, G. C. 36
 Garono, R. J. 53, 54
 Garritt, R. H. 43
 Gartner, J. W. 51
 Gascoyne, J. 55
 Gaston, G. R. 37
 Gattuso, J. P. 35
 Gawlik, D. 64
 Geiskes, J. 32
 Gelfenbaum, G. 55
 Germano, J. 32
 Gerritsen, J. 37
 Gewant, D. 25
 Geyer, W. R. 24, 36, 51, 52
 Giblin, A. 51, 59
 Giblin, A. E. 51, 59
 Gibson, P. J. 26
 Gieskes, J. 38
 Giffin, D. 61
 Gilbert, J. 46
 Gilbert, S. A. 56
 Gilkinson, A. 61
 Gill, G. A. 55
 Gill, J. 58
 Gill, T. A. 60
 Gillanders, B. M. 36, 39
 Gillett, D. J. 23
 Giordani, G. 28, 60
 Givler, K. A. 26
 Glasby, T. M. 22
 Glasgow, H. B. 24, 38, 56, 62
 Glass, P. 57
 Glazer, B. 28, 33
 Glazer, B. T. 33
 Glenn, T. C. 38
 Glibert, P. M. 27, 62
 Godhantaraman, N. 55
 Godin, J. 34
 Goeck, B. 26
 Goecker, M. 46
 Goethals, P. L. 37
 Goetz, F. 39, 42, 53
 Gold, A. J. 62
 Gold, J. 25
 Goldberg, J. D. 38
 Gomes-Filho, J. G. 26
 Gonzalez-Acosta, B. 25
 Goodbred, S. L. 44
 Goodwin, R. 45
 Goolsby, D. A. 59, 62
 Gordeev, V. V. 63
 Gordon, S. I. 47
 Goshorn, D. 46
 Goulet, D. 37
 Govers, G. 34
 Grabowski, J. H. 23
 Grajeda-Muñoz, M. M. 22
 Grandstaff, J. 57
 Grant, J. 51
 Gras, A. F. 26
 Graveland, J. 64
 Gray, A. 36, 46
 Gray, N. P. 55, 56
 Green, M. O. 47
 Green, P. G. 32
 Greenawalt, J. M. 39
 Greene, R. M. 35
 Greengrove, C. 53, 55
 Gregg, M. C. 36
 Gregg, T. 50
 Grevstad, F. S. 43
 Griffin, K. 52
 Grimaldo, L. F. 35
 Grimm, N. B. 59
 Grocock, J. 55
 Groffman, P. 37
 Grosch, C. E. 51
 Grosholz, E. 22, 32, 38, 54
 Grosholz, E. D. 22, 32, 38
 Grosholz, E. E. 54
 Gross, T. F. 34
- Grossinger, R. M. 24
 Grossman, D. 25
 Groves, G. J. 38, 39
 Guard, J. M. 38
 Guelinckx, J. 42
 Guerrero, J. M. 38
 Guest, M. A. 26
 Guida, V. G. 47
 Guntenspergen, G. R. 33, 34
 Gust, N. 32
 Gutierrez de Velasco, G. 35
 Gutiérrez, F. M. 28
 Gwilliam, E. 34
- H**
- Haas, H. L. 50
 Haas, L. W. 55
 Haas, M. E. 49
 Hacker, S. 25, 32
 Hacker, S. D. 32
 Hackney, C. T. 59, 63
 Haertel, S. S. 36
 Hagan, S. M. 33
 Hagy, J. D. 35, 53
 Haidvogel, D. B. 34
 Hale, J. A. 43, 59
 Hale, S. S. 47
 Halka, J. 46
 Halkola, H. 53
 Hall, J. L. 59
 Hall, M. O. 25, 48, 49, 57
 Hall, S. 24
 Haltiner, J. 47
 Hamersley, M. R. 63
 Hamilton, D. P. 56
 Hammerstrom, K. K. 34, 43
 Hamrick, J. H. 45
 Handel, S. N. 64
 Handley, L. R. 52
 Hanes, D. R. 33
 Hanrahan, G. S. 59
 Hansen, M. E. 56
 Hanson, J. M. 37
 Hanson, M. 38
 Harding, L. W. 54
 Hardison, L. 44
 Hardison, P. 25
 Hardison, P. D. 25
 Hare, J. A. 36
 Harms, L. 33
 Harper, J. 33, 37, 53, 60, 61
 Harper, J. R. 33, 53, 60
 Harrell, W. C. 45
 Harris, C. 34, 56
 Harris, C. K. 34
 Harris, L. A. 61
 Harrison, D. E. 51
 Harrison, J. 62
 Harrison, J. A. 62
 Hart, G. 39
 Hart Hayes, E. 23

- Hart, M. L. 58
 Hartman, M. J. 42
 Hartsig, A. M. 31
 Harvey, C. J. 32
 Harvey, J. E. 31
 Harwell, H. D. 42
 Harwell, L. 31, 38
 Harwell, L. C. 31, 38
 Hasek, B. E. 42
 Hashimoto, A. 61
 Haunert, K. M. 44
 Hauswaldt, J. S. 38
 Havens, K. J. 57
 Hawkes, E. A. 42
 Hawkins, P. M. 37
 Hawkins, S. J. 26
 Hay, D. E. 47
 Hayashibara, T. 55
 Hayes, K. C. 47
 He, M. L. 28
 Hearn, C. 22, 23
 Hearn, C. J. 22
 Heatwole, D. W. 57
 Heck Jr., K. L. 53
 Heck, K. L. 46, 49
 Hedstrom, K. 56
 Heffner, L. R. 27
 Heil, C. A. 27
 Heiman, K. W. 22
 Heinig, C. S. 39
 Heitmuller, P. T. 31
 Hellquist, C. E. 32
 Heltshe, J. 47, 58, 59
 Heltshe, J. F. 47, 58
 Hench, J. L. 39, 42
 Hendrickson, J. 55, 61
 Hendrickson, J. C. 55
 Henkel, H. 52
 Henry, M. L. 53
 Hensel, P. F. 60
 Herguera, J. C. 23
 Herman, J. D. 31
 Herrera-Silveira, J. A.
 26, 32, 45
 Herring, G. 31
 Hershner, C. H. 31, 52, 57
 Hertler, H. 28, 31, 55
 Herzka, S. Z. 36
 Hester, M. W. 26, 51
 Hewitt, J. E. 46, 48
 Hickey, B. M. 24, 51
 Hickman, G. 54
 Hicks, A. L. 37
 Hieb, K. A. 32
 Higashi, R. M. 32, 55
 Higgins, K. F. 26
 Higgs, E. S. 64
 Hill, R. L. 36
 Hinch, S. G. 22
 Hinckley, E. K. 61
 Hinckley, E. 62
- Hines, A. H. 22, 53
 Hinkle, C. R. 56
 Hinkle, D. 55
 Hinkle, R. 56
 Hintz, Y. 61
 Hiratsuka, J. 22
 Ho, K. 38
 Hobbie, J. E. 48
 Hobbs, R. J. 64
 Hodder, H. J. 37
 Hoeppner, S. S. 57
 Hoffman, F. A. 52
 Hoffman, J. C. 42
 Hogue, V. E. 26
 Hoke, D. 27
 Holden, P. A. 53
 Holderied, K. 53, 54
 Holguin-Quiñonez, O. 25
 Holland, A. F. 23, 49
 Hollander, D. J. 27
 Hollenhorst, T. 47
 Hollibaugh, J. T. 25
 Hollingsworth, T. 57
 Holloway-Adkins, K. G. 56
 Holm, G. O. 38
 Holmes, R. 54, 63
 Holmes, R. M. 54, 63
 Holt, G. J. 42
 Holt, S. A. 36
 Holtermann, K. E. 27
 Holyoke, R. R. 26
 Hood, R. R. 34, 49, 52, 56
 Hood, W. G. 50
 Hooge, E. R. 42
 Hooge, P. N. 42
 Hopkinson, C. S.
 35, 48, 51, 59
 Hornberger, M. I. 39
 Horner, R. A. 39, 51
 Hornstra, H. M. 60
 Hosack, G. R. 26
 Hoskins, S. 48
 Houde, E. D. 39, 48
 Houghton, R. W. 36
 Hourigan, T. 25
 Houser, L. T. 60
 Howard, J. L. 57
 Howard-Strobel, M. M. 61
 Howarth, R. 51, 59, 62
 Howarth, R. W. 59, 62
 Howes, B. L. 59, 63
 Hu, X. 33
 Huang, X. 43
 Huffman, J. A. 57
 Huggins, T. 26, 27
 Hughes, J. 37, 63
 Hughes, J. E. 37
 Hunt, C. D. 59
 Hunt, D. K. 57
 Hunt, H. 50, 56
 Hunt, H. L. 50
- Hunt, M. J. 44
 Hunter, A. 45, 53
 Hunter, A. E. 53
 Hunter, E. J. 36, 56
 Hurley, D. 38, 42
 Hutchins, E. 57
 Hyatt, C. J. 24
 Hyfield, E. 60, 62
 Hyfield, E. C. 62
 Hyndes, G. A. 49
 Hyniova, J. 57
- I**
- Ibarra-Obando, S. E. 26, 28
 Icely, J. D. 28
 Iizumi, H. 49
 Ilami, F. 53
 Inall, M. E. 36
 Inglis, G. 32
 Ishikawa, M. 64
 Ishitobi, Y. 22
 Isleib, R. R. 62
 Iverson, R. L. 54
- J**
- Jackson, A. C. 42
 Jackson, K. 63
 Jackson, N. L. 38
 Jacobs, F. 37
 Jacobson, K. C. 42
 Jacobson, M. 43, 44, 45, 50
 Jacobson, M. E. 44, 45, 50
 Jacobson, P. T. 54
 Jacoby, C. A. 39
 Jacukiewicz, J. A. 45
 Jaeger, J. M. 58, 61
 Jago, C. F. 51
 Jagtap, T. G. 49
 James, J. B. 35
 James-Pirri, M. J. 46, 57
 Jamieson, G. S. 51
 Jancaitis, L. B. 53
 Janicki, A. 23, 27, 31, 37, 58
 Janicki, A. J. 23, 27, 37
 Janzen, C. D. 36
 Jassby, A. D. 35
 Jay, D. 24, 51, 52, 63
 Jay, D. A. 24, 52, 63
 Jayawardane, A. T. 25
 Je, J. G. 22, 28
 Jeanes, E. 39
 Jeansonne, M. M. 26
 Jensen, H. 45
 Jett, C. E. 53, 60
 Jewett, E. B. 22
 Jewett-Smith, J. 44
 Jiann, K. T. 63
 Jimenez-Illescas, A. R. 38
 Johannessen, J. W. 61
 Johansson, J. R. 44
 John, J. 31
- Johnson, E. 61
 Johnson, G. A. 42
 Johnson, J. 31, 53, 58
 Johnson, J. M. 58
 Johnson, L. E. 48
 Johnson, M. G. 44
 Johnson, M. R. 51
 Johnson, M. W. 53
 Johnson, R. 46, 58
 Johnson, R. L. 58
 Johnston, R. K. 53
 Jones, K. K. 36, 37
 Jones, R. C. 31
 Jones, S. E. 51
 Joo, G. J. 57
 Jordan, T. E. 50, 63
 Jorgensen, P. 26
 Joye, S. B. 61
 Julius, B. E. 50
 Jusatic, D. 60
 Justic, D. 51, 54, 59, 62
 Jutte, P. C. 26, 37
- K**
- Kaldy, J. E. 44, 50
 Kaltenbacher, E. A. 52
 Kamer, K. 35, 36, 59
 Kang, K. 55
 Kanouse, S. 48
 Kaplan, L. A. 63
 Karasev, E. V. 56
 Karpenko, V. I. 22
 Karr, J. R. 37
 Karrh, L. 46
 Kato, K. 55
 Katz, C. 38
 Kawase, M.
 24, 31, 52, 53, 55, 56
 Keats, R. A. 33
 Keay, K. E. 26, 60
 Keeley, D. 32
 Keenan, S. F. 48
 Keil, R. 53, 54, 55
 Keil, R. G. 53, 54
 Keith, D. 31
 Keller, S. R. 60
 Kelley, J. 44
 Kellogg, J. P. 55, 56
 Kelly, J. R. 47
 Kelly, S. 25, 26, 33, 54
 Kelly, S. P. 25, 26, 33
 Kemp, W. M. 25, 26, 55, 61
 Kempe, S. 63
 Kempton, J. W. 33
 Kendall, C. 25, 62
 Kenna, R. E. 49
 Kennedy, H. A. 54
 Kennison, R. L. 59
 Kenny, P. 60
 Kenworthy, W. J.
 34, 43, 47, 49, 50

- Keough, J. R. 32
 Kester, D. 35
 Ketron, A. 44, 57, 59
 Ketron, A. D. 44, 59
 Kettner, A. 62
 Kiernan, S. 56
 Kiesling, R. L. 53
 Kim, G. Y. 57
 Kim, H. 55
 Kim, J. 44
 Kimmel, D. G. 51
 Kimmerer, W. 35, 38, 48, 51
 Kimmerer, W. J. 38, 48
 Kinder, C. 56, 62
 Kineke, G. 51, 61
 Kineke, G. C. 51
 Kineman, J. 61
 King, J. W. 28, 34
 Kintaka, T. 42
 Kirby, J. T. 34
 Kirchman, D. 35
 Kirkpatrick, G. 24, 39
 Kirkpatrick, G. J. 39
 Kishi, M. J. 49
 Kitting, C. L. 42, 58
 Kjerfve, B. 55
 Klassen, G. J. 37, 38
 Klemm, D. J. 60
 Klingbeil, A. D. 61
 Klinger, T. 43, 45
 Kneib, R. T. 23
 Kniskern, T. A. 61
 Knowles, N. 46, 51
 Ko, J. 31
 Koch, E. 45, 49, 51
 Koch, E. W. 49, 51
 Koch, K. 44
 Koch, M. S. 22, 26
 Koehler, M. E. 56
 Koepfler, E. 48, 52
 Kofuji, K. 42
 Kolesar, S. E. 46
 Kolker, A. S. 44
 Koopmans, D. J. 63
 Kopecky, A. L. 37
 Kopp, B. S. 33, 56
 Korhun, L. 35
 Korvela, M. 43
 Koseff, J. R. 35
 Kostoglidis, A. 56
 Kozlowski, G. J. 61
 Krahforst, C. 32
 Kraus, R. T. 36
 Krause, A. E. 60
 Kreeger, D. A. 26, 28, 33
 Krentz, L. K. 37
 Kroboth, T. 44
 Kroeger, K. D. 52
 Kroese, C. 62
 Kropp, R. K. 26, 60
 Kroutil, R. 42, 46
- Kroutil, R. M. 42
 Kruer, C. 49
 Kruger, D. B. 56
 Kuehl, S. A. 55, 61
 Kurtenbach, J. 37
 Kurtenbach, J. P. 37
 Kurtz , J. C. 38
 Kurz, R. C. 58
 Kusuda, T. 61
 Kvitek, R. 38
 Kyhn-Hansen, C. 22
 Kyte, M. A. 38
- L**
- La Peyre, M. K. 48, 58
 Laakkonen, K. 58
 Lacouture, R. V. 27, 31
 Lacy, J. R. 36
 Lamberson, J. O. 31
 Lambrinos, J. G. 32
 Lammers, R. B. 54
 LaMontagne, M. G. 53
 Landis, W. G. 23
 Landry, Jr., A. M. 47
 Landsberg, J. H. 25
 Landwehr, J. M. 48
 Lane, R. 38, 60, 62
 Lane, R. R. 38, 62
 Lara-Dominguez, A. L. 42
 Largier, J. L. 22
 Larkin, P. 47
 Larsen, C. E. 34
 Larsen, R. K. 52
 Lasi, M. A. 31
 Laska, M. S. 46
 Lassiter, A. M. 26
 Latimer, J. 31
 Latour, R. J. 60
 Laursen, A. E. 23
 Laursen, K. R. 26
 Lavery, P. 49
 Lawson, S. E. 36
 Lay, M. C. 59
 Leonard, L. A. 63
 Leavitt, P. R. 62
 Lebo, M. E. 60
 Lecomte, F. 48
 Lee , H. 31
 Lee, A. R. 53
 Lee, C. 26, 44, 50, 57
 Lee, C. W. 57
 Lee, D. M. 58
 Lee II, H. 31
 Lee, K. 44
 Lee, R. F. 42
 Lee, R. W. 26, 32
 Lee, Y. 31
 Leffler, D. L. 55
 Leguerrier, D. 60
 Lehman, P. W. 51
 Lehman, R. A. 55
- Lehrter, J. C. 60
 Leighfield, T. 24
 Leonard, L. A. 54, 56, 57, 63
 Leonard, L. L. 59
 Lepo, J. E. 26, 27
 Lerczak, J. A. 36, 52
 Lessmann, J. M. 45
 Levin, L. A. 22, 32, 63
 Levin, P. S. 36
 Levings, C. 22, 37
 Levings, C. D. 22
 Lewis, B. L. 33
 Lewis, E. A. 48
 Lewis, R. E. 56
 Lewitus, A.
 24, 33, 47, 48, 50, 52, 55
- Lewitus, A. J.
 24, 33, 47, 50, 55
- Leydecker, A. 60
 Lezberg, A. 62
 Lezina, B. 39
 Li, H. W. 22, 23, 37
 Li, M. 34, 56
 Lieberman, C. H. 51
 Liljebladh, B. 36
 Lim, H. S. 28
 Limburg, K. E. 35, 36, 42
 Lin, Q. 51
 Lindeberg, M. R. 54
 Lindeman, D. 27
 Lindquist, L. E. 60
 Linker, L. C. 33, 34
 Lipcius, R. N. 53
 Lipovsky, S. 25
 Litaker, R. W. 61
 Litaker, W. R. 24
 Litvin, S. Y. 37, 47
 Liu, S. 50
 Livingston, R. J. 59
 Lizotte, M. 53, 54
 Llansó, R. J. 37
 Locke, A. 37, 38
 Loftus, W. F. 32
 Logan, J. M. 50
 Lohrer, A. M. 42, 46
 Lomax, R. W. 59
 Loneragen, N. R. 26
 Long, M. 33
 Longstaff, B. J. 27
 Lopez, C. B. 50, 55
 Lorenz, J. J. 32
 Loureiro, S. 28
 Lovelace, S. 31
 Loveland, R. E. 39
 Lovelock, C. E. 43, 50
 Lovvorn, J. R. 27
 Lowers, R. H. 57
 Lucas, L. V. 35, 50, 55
 Luckenbach, M. W. 57
 Ludlam, J. P. 43
 Luettich, R. 36, 39, 42
- Luettich, R. A. 39, 42
 Lung, W. S. 50
 Luoma, S. N. 32, 39
 Lussier, S. M. 60
 Luther, G. W. 28, 33
 Luther, M. E. 56
 Lychagin, M. Y. 60
 Lynch, J. 34, 45
 Lynch, J. C. 34, 45
- M**
- Ma, S. 28
 Ma, X. 38
 Maa, G. 32
 Maa, J. P. 38
 Macauley, J. 31
 Macauley, J. M. 31
 MacAuley, S. R. 27
 MacAvoy, S. E. 36
 MacBroom, J. 58
 MacCready, P. 36, 56
 Machás, R. 54
 Maciolek, N. 60
 Mackas, D. L. 48
 MacKenzie, R. A. 63
 Macko, S. A. 36
 MacPherson, T. A. 31
 MacRae, P. S. 47
 Macrellis, H. 25
 Madden, C.
 22, 25, 26, 33, 44, 48, 52
- Madden, C. J. 25, 26, 33, 44
 Maddi, P. 63
 Madley, K. A. 58
 Madsen, J. A. 51
 Maes, J. 37, 42
 Magnien, R. 46, 54
 Magnien, R. E. 54
 Maher, B. F. 25
 Mahn, C. 38
 Maier, A. F. 24
 Majzlik, E. J. 55
 Makkaveev, P. N. 63
 Maksimenkov, V. V. 22
 Mallin, M. A. 31, 62
 Mallon, J. C. 56
 Mancera, E. 22, 50
 Mancera, J. E. 50
 Manning, C. S. 47
 Mantua, N. J. 51
 Marbà, N. 34
 Marcal, D. 38
 Marchenko, S. L. 47
 Marchi, A. 26
 Maricle, B. R. 26
 Marino, R. M. 59
 Marion, S. 45, 46, 48
 Marion, S. R. 45, 46
 Markiewicz, A. M. 23
 Marriott, D. R. 22
 Marsh, A. S. 34

- Marsh, T. 32
 Marshall, F. 28, 35
 Marshall, F. E. 28
 Marshall, H. G. 31
 Martens, C. S. 23
 Martin, G. 33
 Martin, M. 53, 58
 Martin, M. A. 58
 Martin, R. E. 51
 Martindale, M. 46
 Martinez, D. 22
 Martini-Lamb, J. E. 58
 Masini, J. C. 54
 Mason, D. M. 60
 Mason, L. B. 53
 Mason, R. P. 27
 Matheson, R. E. 55
 Matisoff, G. 61
 Matlock, G. C. 54
 Matthews, G. A. 23
 Mattson, R. A. 59
 Matweyou, J. A. 24
 Mausner, J. 58
 Maxwell, S. 51
 Maxwell, T. 34
 May, P. I. 26
 Mayo, C. S. 63
 Mazzotti, F. J. 25
 McAdory, R. 24
 McCabe, R. 36, 56
 McCabe, R. M. 56
 McCallister, S. L. 35
 McCarter, P. B. 47
 McCarthy, D. 54
 McCarthy, M. J. 23
 McClelland, J. W. 54, 63
 McConnell, R. 31, 37, 58
 McConnell, R. G. 37
 McCormick-Ray, M. G. 36
 McCoy, L. 22, 32
 McCoy, L. M. 32
 McDonald, A. A. 44
 McDonald, E. A. 26
 McDonough, M. 39
 McElrone, B. 33
 McGilliard, C. 48
 McGlathery, K. 36, 39, 63
 McGlathery, K. J. 36, 63
 McGlynn, C. A. 33
 McGoff, N. M. 44
 McHorney, R. 62
 McIninch, S. P. 36
 McIsaac, G. F. 62
 McIver, M. R. 62
 McKee, B. A. 61
 McKee, D. A. 54
 McKee, K. L. 34, 50, 51
 McKenna, J. H. 62
 Mckenzie, L. J. 31
 McKinney, R. 25, 31, 37, 57
 McLain, J. S. 47
 McLaughlin, C. 55, 62
 McLaughlin, C. J. 55
 McNeese, P. 49
 McWilliams, J. C. 34
 Meave, M. C. 28
 Meeder, J. 54
 Meffert, D. J. 33
 Megonigal, J. P. 26, 34
 Meire, P. 34, 64
 Melack, J. M. 60
 Melia, G. M. 24, 38, 62
 Mendelssohn, I. A. 26, 27, 51
 Mendoza, G. 32
 Meng, L. 23
 Mensinger, M. G. 28
 Meredith, A. 24
 Merello, M.
 34, 43, 49, 57, 59
 Merello, M. F. 57
 Merino, S. L. 38, 43
 Meritt, D. 26
 Metelev, E. A. 47
 Meyer, D. L. 58
 Meyers, M. B. 62
 Meyers, S. D. 56
 Mezich, R. R. 34
 Michael, B. 46, 54
 Michael, B. D. 54
 Michaels, R. E. 44
 Micheli, F. 22
 Michener, R. H. 63
 Michot, T. C. 52
 Middelburg, J. 27, 35, 63
 Middelburg, J. J. 27
 Mikel, T. K. 37
 Mikita, K. A. 33
 Milan, B. J. 52, 54
 Milburn, D. 63
 Miller, B. 34
 Miller, C. J. 59
 Miller, J. A. 58
 Miller, T. J. 36
 Miller, T. W. 22
 Miller, W. D. 54
 Milligan, T. G. 51
 Milliman, J. D. 62
 Mills, A. L. 53, 60
 Minello, T. J. 23, 58
 Minnigh, H. A. 31, 46, 55
 Minor, E. 26
 Mir Gonzalez, D. 54
 Misra, G. 56, 62
 Mitchell-Bruker, S. 56
 Mitchell-Tapping, H. J. 56
 Mitsch, W. J. 64
 Mizell, M. C. 55
 Mizutani, T. 39
 Moisan, J. R. 34
 Moisander, P. H. 24
 Molina, A. 23
 Möller, O. O. 28, 63
 Monaco, M. E. 60
 Moncreiff, C. A. 24, 54
 Moncreiff, C. A., 24
 Mondragon, J. 42, 46
 Mondragon, J. M. 42, 46
 Monismith, S. 36, 48
 Monismith, S. G. 36, 48
 Monsen, N. E. 35
 Montagna, P. 51
 Montagna, P. A. 51
 Montagne, D. E. 37
 Montes, M. 28
 Montgomery, M. T. 32, 38
 Montgomery, R. 58
 Monthum, Y. 43, 44
 Montoya, J. P. 63
 Moore, K. A.
 44, 46, 48, 52, 57
 Mopper, S. 27
 Morehead, S. 51
 Morgan, S. G. 54
 Morrell, C. A. 27
 Morrice, J. A. 47
 Morris, J.
 26, 43, 44, 45, 59, 60
 Morris, J. T.
 26, 43, 45, 59, 60
 Morris, L. J. 45
 Morris, M. C. 53, 54
 Morrison, W. 24, 60
 Mortimer, A. 39, 54
 Mortimer, A. C. 39
 Morzaria-Luna, H. 46
 Moss, J. A. 26, 27
 Motamed, E. R. 39
 Mote, P. M. 51
 Moulds, S. 57
 Moum, J. 36
 Mounts, H. 52
 Moy, C. Y. 26
 Moyer, E. 44
 Mudge, S. M. 35
 Muehlstein, L. K. 46
 Mueller, J. A. 62
 Mueller-Navarra, D. C. 35
 Mueller-Solger, A. B. 35
 Mukai, H. 49
 Mulholland, M. R. 26, 27, 63
 Mulitsch, M. J. 59
 Mullan, A. 52
 Mullan, C. P. 59
 Muller-Parker, G. 31
 Muller-Solger, A. B. 35
 Mumford, T. F. 45, 47
 Munkittrick, K. R. 37
 Murasko, S. 27
 Murata, B. 22
 Murphy, R. F. 57
 Murray, D. 35
 Murray, N. 28
 Murrell, M. C. 25, 35, 51, 53
 Musgrave, D. 56
 Mutchler, T. 63
 Muylaert, K. 62
 Myerchin, G. 45

N

- Nagel, E. D. 26
 Nairn, B. J. 56
 Naldi, M. 60
 Natter, M. J. 27
 Natunewicz, C. 53
 Naylor, M. 46
 Neckles, H. A. 33
 Negishi, A. 55
 Neikirk, B. B. 52, 57
 Neill, C. 62
 Neira, C. 22, 32, 63
 Nelson, B. W. 51
 Nelson, D. B. 54
 Nelson, S. 32
 Nelson, W. 31, 38
 Nelson, W. G. 31
 Nemerson, D. 58
 Nestlerode, J. A. 57
 Neubauer, S. C. 26
 Newbold, J. D. 63
 Newell, A. 37
 Newell, R. I. 26, 49
 Newell, S. Y. 60
 Newman, S. 64
 Newstead, D. J. 54
 Newton, A. 28, 35
 Newton, J. 51, 52, 55, 56
 Newton, J. A. 51, 52
 Newton, M. 42, 46, 48
 Newton, M. E. 42, 48
 Nickerson, D. 28
 Nico, L. G. 39
 Nicolau, B. A. 28, 31, 42
 Nicolini, M. H. 38
 Nieder, W. C. 48
 Nielsen, J. K. 46
 Nielsen, M. G. 33
 Nietch, C. T. 26
 Niklitschek, E. J. 36
 Niqual, N. 60
 Nisbet, R. M. 54
 Nishimura, K. 55
 Nitsche, F. O. 61
 Nixon, S. W. 61, 63
 Noble, P. A. 55
 Nobre, A. M. 35
 Nobriga, M. 45
 Nocker, A. 26, 27
 Noji, C. 37
 Noll, C. J. 61
 Nomura, T. 22
 Nordstrom, K. F. 38, 64
 Noriki, S. 56
 Norris, J. G. 44
 North, E. W. 52, 56

- Norton, W. S. 38
 Notestein, S. K. 59, 60
 Novakowski, K. I. 54
 Nowicki, B. L. 62
 Nozaki, K. 55
 Nunez, A. X. 31, 42
 Nur, N. 46
 Nuttle, W. K. 35
 Nuwer, J. M. 54
 Nuzzio, D. B. 33
 Nyman, J. A. 48
- O**
 Obeso-Nieblas, M. 38
 Ogburn-Matthews, G. 60
 Ogden, J. 64
 Olesen, B. 34
 Ollerhead, J. 45
 Ollevier, F. 42
 Olney, T. 27, 45
 Olney, T. T. 27
 Olson, R. J. 35
 Onuf, C. P. 28, 49
 Oppenheimer, P. 31
 Orth, R. J. 45, 46, 48, 57
 Orton, P. M. 52
 Osburn, C. L. 38
 Osgood, D. T. 33
 Osher, L. J. 33, 61
 Ostrom, P. H. 63
 Otani, K. 55
 Otosaka, S. 56
 Ott, J. 25
 Outen, H. 27
 Oviatt, C. A. 59
 Owens, A. B. 57
 Owens, M. S. 23, 25, 26, 38
 Oyarzun, F. 25
 Ozretich, R. J. 54, 58
- P**
 Packer, D. 52
 Paerl, H. W.
 23, 24, 26, 28, 33, 49, 60
 Pagano, M. 44
 Page, G. 46, 58
 Page, G. G. 58
 Page, H. M. 54
 Paling, E. I. 44
 Palmer, M. 36
 Palomares-Garcia, R. 25
 Panasik, G. 57, 61
 Panasik, G. M. 61
 Pantus, F. J. 27
 Paola, P. 38
 Paquette, C. H. 34
 Parchaso, F. 39, 46
 Parham, T. 46
 Parikh, M. S. 52
 Park, J. 44
- Park, S. B. 57
 Park, W. 26
 Parker, A. E. 63
 Parker III, F. M. 26, 63
 Parkinson, R. W. 57
 Parr, L. A. 52
 Parsons, D. C. 62
 Parsons, J. D. 51, 55
 Parsons, L. S. 57, 58
 Parsons, M. L. 59
 Partyka, M. 38, 55
 Partyka, M. L. 38
 Patch, M. 61
 Patchineelam, S. M. 26
 Patchineelam, S. R. 26, 55
 Patten, K. D. 32
 Pattiaratchi, C. B. 56
 Paul, J. F. 47, 59
 Paul, J. P. 59
 Paul, R. W. 52, 54
 Paulsen, R. 32, 39
 Paulsen, R. J. 39
 Pawlak, G. 36, 56
 Pawley, A. L. 37, 54
 Pawlowicz, R. 24
 Payne, W. V. 57
 Paynter, K. T. 57, 58
 Paytan, A. 56, 62
 Pearce, J. P. 45
 Pearlstine, L. G. 25
 Pearse, J. S. 22
 Pederson, B. A. 39
 Peebles, E. B. 23
 Pegau, W. S. 56
 Peierls, B. L. 26
 Pelletier, M. C. 37
 Pelletier, P. 38
 Pence, A. M. 56, 59
 Pennings, S. C. 60
 Pennington, L. J. 26, 27
 Pennock, J. R. 23, 24, 49, 60
 Penry, D. L. 48
 Penttila, D. E. 47
 Perez, B. C. 27, 45
 Perez, D. E. 62
 Perez, K. 38, 58
 Perez, K. T. 58
 Pergent, G. 49
 Pergent-Martini, C. 49
 Perillo, G. M. 62
 Perry, E. 54
 Perry, J. E. 62
 Perry, M. J. 52
 Pesch, C. 31
 Pesch, G. 59
 Peter, N. 46
 Peters, H. 36
 Petersen, J. E. 55
 Peterson, B.
 46, 51, 54, 56, 63
 Peterson, B. J. 54, 63
 Peterson, B. P. 46
- Peterson, B. V. 56
 Peterson, C. H. 23, 42, 43, 48
 Peterson, D. 46
 Peterson, G. S. 47
 Peterson, G. W. 39
 Peterson, H. A. 39
 Peterson, M. S.
 22, 38, 47, 49, 55
 Peterson, S. B. 64
 Petrone, C. 53
 Pfadenhauer, J. 64
 Phelps, E. I. 27
 Phelps, H. L. 39
 Philippi, T. 58
 Phillips, L. A. 45
 Phlips, E. J. 53, 60, 63
 Piazza, B. P. 58
 Picard, C. R. 60
 Piccolo, M. C. 62
 Piehler, M. F. 23, 24, 60
 Pietrafesa, L. 53, 59
 Pietrafesa, L. J. 59
 Pilditch, C. A. 48
 Pilon, V. L. 35
 Pinckney, J. L. 24, 28, 53
 Piniak, G. 50
 Piralla, D. 53
 Platt, W. J. 43
 Pluhar, R. J. 27
 Plumley, F. G. 24
 Plunket, J. 58
 Poe, A. C. 23
 Poirrier, M. A. 57
 Polivka, K. 47
 Pollard, C. A. 59
 Polsenberg, J. F. 50
 Pope, A. J. 48
 Porter, D. E. 43, 50, 53
 Porter, E. T. 27
 Portnoy, J. W. 46
 Porubsky, W. P. 61
 Posey, M. 42, 57, 62, 63
 Posey, M. H. 42, 62, 63
 Pospelova, V. 36
 Pottsmith, H. C. 51
 Poulton, V. K. 27, 42
 Poumian-Tapia, M. 28
 Pouvreau, N. 60
 Powell, R. T. 54, 59, 61
 Powell, S. L. 63
 Power, J. H. 56
 Powers, M. J. 48
 Powers, S. P. 23, 42, 43
 Pregnall, A. M. 27
 Prell, W. 35
 Preston, S. D. 54, 62
 Pribble, J. R. 27
 Pride, L. 54
 Pridgeon, B. 57
 Probst, J. L. 63
 Procaccini, G. 49
 Proctor, L. 25, 27
- Proctor, L. M. 25, 27
 Proffitt, C. E. 50, 57
 Prosser, D. J. 34, 45
 Provancha, M. J. 57
 Pulich, Jr., W. M. 49
 Purcell, J. E. 38, 54
 Purdie, D. A. 63
 Purvis, C. 53
 Putland, J. N. 54
- Q**
 Qiu, C. 44
 Quinones-Rivera, Z. J. 54
- R**
 Rabalais, N. N.
 24, 51, 52, 59, 62
 Rabalais-Turner, N. 54
 Raber, M. J. 63
 Raciti, S. 23
 Radureau, A. 32
 Rakocinski, C. F. 27, 43, 47
 Raksany, D. L. 26
 Ralph, P. J. 48
 Ramaiah, N. 49
 Ramcharan, C. 39
 Ramírez, F. V. 28
 Ramirez, G. I. 28
 Ramirez, G. I. 55
 Ramírez Ortíz, Z. G. 31
 Ramirez, R. J. 26
 Ramírez toro, G. I. 31
 Ramus, J. 33
 Ranasinghe, J. A. 37
 Rand, P. S. 48
 Rankin, K. L. 52, 59
 Ransibrahmanakul, V. 53, 54
 Rathbun, K. M. 63
 Ray, G. C. 36
 Ray, J. D. 24
 Rayl, N. 38
 Raz-Guzman, A. 54
 Reaugh, M. L. 27
 Reay, W. G. 62
 Recalma-Clutesi, K. 24
 Recksiek, C. W. 36
 Redalje, D. G. 27
 Reed, D. C. 60
 Reed, R. E. 24, 56, 62
 Reeder, T. G. 32
 Reese, R. O. 25
 Reeves, B. 43, 44, 45
 Rego, S. 31
 Reisewitz, S. 32
 Remata, H. 49
 Remírez toro, G. I. 46
 Renfro, A. A. 54
 Repenning, R. 58
 Revilla, M. 27
 Reyes, E. 42, 50, 57, 60, 62

- Reyier, E. A. 42, 57
 Reynolds, S. 27, 63
 Reynoldson, T. B. 28
 Reynolds, N. B. 54
 Rhodes, B. 32
 Rice, C. A. 37
 Richards, C. L. 45
 Richardson, C. J. 61
 Richardson, J. S. 22
 Richardson, N. 32
 Richardson, T. L. 24
 Richardson, W. P. 24
 Richter, K. E. 53
 Rick, J. J. 24, 27
 Rick, S. 24, 27
 Riekerk, G. H. 37
 Rigobello-Masini, M. 54
 Rilling, G. C. 39
 Rinker, K. R. 54
 Rippeth, T. P. 36
 Rivera-Monroy, V. H.
 22, 34, 50
 Roach, R. W. 57
 Robbins, B. D. 49
 Roberts, M. 53, 55, 60
 Roberts, M. S. 60
 Roberts, Q. 45
 Robertson, T. L. 22
 Robinson, C. L. 37
 Robinson, L. 61
 Robinson, M. H. 49
 Robinson, N. M. 27
 Robinson, R. R. 53, 54
 Robinson, T. 60
 Robison, D. 58
 Rocha, A. 27, 63
 Rocha, A. M. 27
 Rocha, K. J. 58
 Rochette, R. 38
 Rodney, W. S. 57
 Rodriguez, D. L. 45
 Roegner, C. 55
 Roegner, G. C. 52, 55
 Roehl, E. A. 33
 Rogers, K. 34
 Rogers, M. T. 27
 Rogers, R. E. 57
 Rohland, F. 23
 Rohrbacher, D. 54
 Roland, R. M. 49
 Rollwagen Bollens, G. C. 48
 Roman, C. T. 34, 46, 57
 Roman, M. R. 27, 48, 51
 Romero, A. 44
 Romero, I. 45, 50
 Romigh, M. M. 25
 Romine, H. M. 61
 Rondon, A. N. 26
 Rooker, J. R. 27
 Rose, K. A. 39, 46, 50, 57
 Rosen, G. 38
 Rosinski, J. L. 36
- Ross, S. T. 38, 55
 Ross, S. W. 25, 33, 42
 Rossignol, P. A. 23
 Rot, B. 46
 Rowe, E. A. 27
 Rowe, L. 46
 Rowell, K. 64
 Royer, T. C. 51
 Rozas, L. P. 23, 58
 Rubio, G. A. 55
 Rudnick, D.
 25, 26, 28, 33, 59
 Rudnick, D. T. 25, 26, 28, 59
 Rudnick, G. 44, 50
 Ruesink, J. 22, 25, 26, 32, 58
 Ruesink, J. L. 22, 26, 32, 58
 Ruggerone, G. T. 42
 Ruiz, G. M. 22, 38
 Rummel, B. W. 46
 Rumrill, S. S. 42, 63
 Rundle, S. D. 42
 Rupp, J. 55
 Russell, C. 23, 61
 Russell, C. L. 23
 Russell, L. R. 57
 Russell, M. 51
 Rutchen, K. 64
 Ruth, B. F. 42
 Rutten, L. M. 58
 Ryan, T. L. 24
 Ryan, W. B. 61
 Rybczyk, J. 34, 43, 51
 Rybczyk, J. M. 34, 43, 51
 Rybicki, N. B. 48
- S**
- Saarman, E. 35
 Sacco, J. 46, 56
 Sacco, J. N. 46
 Sacks, P. E. 27
 Sadro, S. 58
 Saenger, C. P. 55
 Sager, W. 56, 61
 Sager, W. W. 56
 Saindon, D. 44, 45, 57, 59
 Saindon, D. D. 44, 45, 59
 Saito, S. 42
 Sakita, S. 61
 Salak, E. 33
 Sanay, R. 35
 Sandell, T. A. 42
 Sanders, G. M. 34, 45
 Sanderson, M. P. 63
 Sanderson, P. A. 63
 Sandhei, P. T. 55, 62
 Sanford, L. P.
 27, 51, 52, 55, 56
 Sanger, D. M. 23, 39, 49, 53
 Santos, A. 31
 Santos, R. 49, 54
 Sapozhnikov, D. 22
- Sarason, C. 31
 Sarason, C. P. 31
 Sargent, B. 44, 45
 Saruwatari, T. 42
 Sasser, C. E. 38
 Saucier, F. 48
 Saucier, F. J. 48
 Saupe, S. 53, 54
 Saupe, S. M. 54
 Savage, C. 62
 Savarese, M. 26, 27, 51
 Savela, R. S. 34
 Sawant, P. A. 27
 Saxe, N. E. 26
 Scarborough, R. W. 28, 47, 51
 Scavia, D. 51, 54, 59
 Schaffner, L. C.
 27, 37, 51, 61
 Scharler, U. M. 61
 Scheidt, D. M. 56, 57
 Schervinin, A. 56
 Schile, L. M. 27
 Schill, S. R. 43
 Schimmelman, A. 27
 Schoch, C. 50, 55, 56
 Schoch, G. C. 37
 Schoellhamer, D. H. 25, 51
 Schofield, P. J. 39, 42
 Scholin, C. 24
 Scholin, C. A. 24
 Schonberg, S. V. 63
 Schopmeyer, S. A. 22
 Schraga, T. S. 50, 55
 Schramm, R. 24
 Schuttelaars, H. M. 52
 Schwarz, A. 48
 Schwarz, K. 47
 Schwarzschild, A. C. 45, 49
 Scott, L. C. 39
 Scott, S. E. 42
 Scow, K. M. 32
 Scully, M. E. 51
 Seaman, R. E. 33
 Seaton, C. 33
 Secor, D. H. 36
 See, J. H. 63
 Segura, B. D. 27, 45
 Seiler, D. 53
 Seim, H. E. 28, 36
 Seitz, R. D. 53
 Seitzinger, S. P. 23, 62
 Selig, E. R. 60
 Seliskar, D. M. 33
 Sellers, K. 24
 Sellner, K. G. 24, 27, 34
 Sellner, S. 27, 37
 Sellner, S. G. 27
 Semmens, B. X. 26, 47
 Sen Gupta, B. K. 59
 Senju, T. 56
 Sepej, J. A. 25
 Sepulveda, H. H. 63
- Sereno, D. M. 35
 Sewell, A. 43, 44, 45
 Sewell, A. T. 43, 45
 Seyb, R. 47, 55
 Shafer, D. J. 49
 Shanks, A. L. 48, 55, 58
 Sharler, U. 45
 Sharp, J. H. 63
 Shaw, R. F. 52, 54
 Sheats, N. 63
 Sheehan, E. V. 42
 Sheldon, J. E. 35
 Shenk, G. W. 33, 34
 Shenker, J. M. 42
 Sheppard, M. E. 42
 Sherwood, C. R. 34, 52
 Shi, F. 34
 Shiklomanov, A. I. 54
 Shiklomanov, I. A. 54, 63
 Shimizu, H. 55
 Shimmield, G. 23
 Shipman, H. 55
 Shirley, T. C. 46
 Shirley/Dr., T. C. 26
 Short, F. T. 31, 45, 56
 Shouse, M. K. 39
 Shreffler, D. 46, 49
 Shreffler, D. K. 49
 Shull, D. 43
 Shull, S. 43
 Shumilin, E. 22
 Shurtleff, A. S. 47
 Sidhu, H. S. 22
 Siegel, E. J. 51
 Sigleo, A. C. 23
 Sillett, K. B. 37
 Silliman, B. R. 22, 31, 59
 Silva, S. R. 62
 Silver, M. W. 38
 Silverberg, N. 61
 Simas, T. C. 35
 Simenstad, C.
 27, 39, 46, 49, 53, 54, 55, 57
 Simenstad, C. A.
 39, 46, 49, 53, 54, 57
 Simjouw, J. P. 26
 Simoens, I. 37
 Simons, B. 25
 Simons, J. 27, 28, 61
 Simons, J. D. 27
 Simons, R. 48
 Simons, R. D. 48
 Simpson, J. B. 56
 Simpson, J. H. 36, 56
 Sin, Y. 23
 Sisengalieva, G. 60
 Skahill, B. E. 53
 Skalski, J. R. 45
 Sklar, F. 34, 43, 64
 Sklar, F. H. 34
 Slack, W. T. 22
 Slagle, A. L. 61

Slocum, M. G. 27
Smail, P. 23, 31
Smail, P. W. 31
Small, D. J. 55
Smallwood, B. J. 44, 45, 50
Smirnov, A. A. 47
Smith, C. 27, 32, 39
Smith, C. F. 39
Smith, C. R. 27
Smith, D. 28, 38, 55
Smith, D. P. 55
Smith, D. R. 38
Smith, F. J. 42
Smith, G. 38
Smith, G. J. 38
Smith III, T. J. 28, 34
Smith, J. P. 27, 37
Smith Jr., T. J. 60
Smith, K. N. 34
Smith, L. M. 31, 38
Smith, N. P. 56
Smith, P. 32
Smith, R. 22, 37
Smith, R. W. 37
Smith, S. M. 46
Smith, S. V. 28, 55, 62
Smith, T. J. 52, 53
Smythe, S. A. 56
Sneden , G. 60
Snow-Cotter, S. 39
Snyder, R. A. 26, 27, 42
Soares, I. D. 63
Sobczak, W. V. 35
Sobociński, K. L. 49
Sobociński, K. R. 39
Sobolev, D. 23
Soetaert, K. 27
Solo-Gabriele, H. 56
Somero, G. N. 22
Sommer, T. R. 45
Sommerfield, C. K. 61
Soon, M. 23
Soong, Y. S. 59
Soracco, M. 24
Southerland, M. 37
Spagnol, S. 62
Sparks, D. L. 57
Spaulding, M. 33
Spautz, H. 46
Specht, D. T. 45, 49
Spicer, J. S. 42
Spitzer, P. M. 49
Spivak, A. 63
Stacey, M. 35, 36, 53, 58
Stacey, M. T. 35, 36, 53
Stacey, P. E. 62
Staff, F. J. 56
Stahl, D. A. 52
Stahr, F. 31
Stahr, F. R. 31
Stamatiou, L. 39

Stamatiou, L. A. 39
Stamey, M. 45
Stancyk, S. E. 42
Stanhope, D. M. 52, 57
Stanhope, J. W. 62
Stankelis, R. 23, 45, 54
Stankelis, R. M. 45, 54
Stanko, L. W. 26
Stark, K. A. 27
Starkes, J. 39
Starnes, S. M. 25
Stearns, L. P. 36
Steidinger, K. A. 24
Steimle, E. T. 52
Steinberg, D. K. 60
Steinberg, N. D. 27
Steinert, S. 38
Steinmetz, A. M. 45
Stephens, J. A. 52, 56
Steppe, T. F. 28
Stevenson, B. R. 33
Stevenson, C. 27, 42
Stevenson, C. T. 42
Stevenson, J. C. 48, 51
Stevenson, M. 37
Steward, J. S. 31, 45
Stewart, A. R. 32
Stewart, J. B. 57
Steyer, G. D. 23, 58
Stockwell, D. A. 24
Stoecker, D. K. 27, 51
Stolen, E. D. 31
Stolzenbach, K. D. 34
Stout, J. P. 49
Stralberg, D. 46
Strayer, D. 48
Striplen, C. J. 24
Strobel, C. 59
Strom, S. L. 62
Strong, D. R. 33
Struck, S. D. 27
Stumpf, R. P. 24, 39, 53, 54
Stunz, G. W. 36
Sturdevant, A. 56
Stutes, J. P. 45
Subramanian, V. 56
Sucsy, P. 55
Suurbier, A. D. 39, 42
Suja, P. 49
Sulak, K. J. 52
Sullivan, M. J. 63
Summers, J. K. 31, 32
Sun, M. Y. 61
Sundareshwar, P. V. 61
Sundberg, K. L. 34
Supan, J. 58
Surratt, D. D. 61
Suszkowski, D. J. 27
Sutherland, B. 53
Sutherland, G. B. 22
Suttles, S. E. 52, 55

Sutula, M. 35, 36
Sutula, M. A. 36
Suzuki, T. 56
Swaney, D. P. 55, 59, 62
Swanson, C. 33, 37
Swanson, R. L. 59
Swart, J. 64
Swarzenski, C. M. 27
Switzer, T. S. 23, 39, 47
Sytsma, M. D. 22
Svititski, J. P. 62

T

Taft, J. L. 35
Taggart, S. J. 42, 46
Takacs, R. 57
Takekawa, J. Y. 27
Talaue-McManus, L. 62
Tamaki, M. 55
Tanaka, H. 42
Tanner, C. E. 33, 49, 52
Tartowski, S. L. 60
Taub , F. B. 55
Taylor, J. C. 48
Taylor, W. J. 46
Teague, P. D. 52
Teal, J. M. 56, 64
Tear, L. M. 38
Tedesco, M. A. 62
Temmerman, S. 34
Templet, P. H. 31
Tengberg, A. 54
Tester, P. 24, 54, 61
Tester, P. A. 24, 61
Thatcher, L. A. 28
Thessen, A. 24, 51
Thessen, A. E. 51
Thom, R. M. 49, 56, 64
Thom, R. T. 47
Thomas, C. R. 45
Thomas, F. I. 23
Thomas, R. L. 26
Thompson, J. K. 39, 46
Thompson, M. J. 32
Thompson, R. C. 26, 42
Thompson, S. P. 23
Thompson, S. R. 42
Thompson, W. J. 39
Thomsen, M. 36, 39
Thomsen, M. S. 39
Thoresen, M. 35
Thorhaug, A. 58, 64
Thornton, D. 44, 45, 50
Thrush, S. F. 46
Thunell, R. C. 55
Thurlkill, A. L. 45
Timothy, D. 23
Timperley, M. H. 54
Tobias, C. 63
Todd, S. W. 39
Toft, J. D. 39

Togawa, O. 56
Tolan, J. 54
Tolley, S. G. 26, 27, 51
Tomasko, D. 58
Tomasko, D. A. 58
Tomasky, G. 28, 35
Tomlinson, M. 24, 39
Tomlinson, M. C. 39
Toms, D. 24, 62
Toms, D. C. 24
Toohey, J. 49

Torres, R. 28, 54
Torres, R. A. 28

Torres-Valdes, S. 63
Townsend, S. M. 45

Tozzi, S. 55
Trainer, V. L. 24

Travis, S. E. 50
Traykovski, P. A. 52

Traywick, J. D. 31
Tremblay, E. 37

Trevorrow, M. V. 48
Trexler, J. C. 32

Tribou, E. 55
Trice, M. 46

Trice, T. M. 54
Trimble, A. C. 32, 58

Trimble, B. 34
Trouwborst, R. 28, 33

Trouwborst, R. E. 33
Truby, E. 24, 39

Truby, E. W. 39
Tsou, T. 55

Tsurumi, M. 48
Tucker, J. 51, 59

Tuele, D. 48
Tunberg, B. G. 27

Tunbridge, D. J. 44
Tunnell, J. W. 42

Tunnell Jr., J. W. 28
Tunnell, Jr., J. W. 45, 54

Turley , C. M. 56
Turner, J. P. 27

Turner, N. J. 24
Turner, R. E.

24, 42, 51, 59, 64
Turner, S. 48

Turner, S. J. 48
Tweedale, W. A. 31

Twilley, R. R.
22, 27, 34, 50, 52

Tyler, A. C. 22, 32, 36
Tymowski, R. 48, 55

Tymowski, R. G. 55
Tyrrell, M. C. 39

U

Udy, J. W. 27
Uhrin, A. V. 33

Ulanowicz, R. 51, 61

Ulanowicz, R. E. 61
Uncles, R. J. 52, 56
Ustin, S. L. 59

V

Valdes, L. M. 60
Valentine, J. F. 39, 42, 46, 49
Valentine, S. K. 26
Valiela, I. 23, 25, 28, 35, 52
Valle-Levinson, A. 24, 35, 56, 63
Vallino, J. 63
van Bergen, S. 54
Van Beusekom, J. 60
Van Damme, S. 64
Van den Bergh, E. C. 64
Van den Winkel, P. 61
van der Windt, H. 64
Van Dolah, R. F. 37
Van Houte, K. 48
van Keulen, M. 33, 44
Van Liefferinghe, C. 37
van Montfrans, J. 46
Van Mooy, B. 53
Van Oevelen, J. 27
van Proosdij, D. 45
Van Wichelen, J. 62
Vandenburgh, E. M. 43
VanDolah, F. M. 24
Vann, C. 55
Vargo, G. A. 23, 39
Varona, F. C. 28
Vaz, A. C. 28
Velarde, R. G. 37
Velinsky, D. J. 26, 33
Venherm, C. 61
Vera-Herrera, F. 43
Verdugo, G. 23
Viaroli, P. 28, 60
Villareal, T. A. 24, 39
Vincent, J. S. 43
Vincenty Aymat, A. 55
Vines, C. A. 55
Virnstein, R. W. 45, 49
Visintainer, T. A. 27
Visser, J. M. 23, 38
Vivian, D. N. 27
Voinov, A. A. 34
Volety, A. K. 26, 27, 51
Vorosmarty, C. J. 51, 54
Vorster, P. 37
Vyverman, W. 62

W

Waddell, J. 60
Wade, D. L. 37
Waggy, G. L. 47
Wainright, S. C. 57
Waldbillig, C. M. 55
Waldron, H. 60

Walker, C. 52, 53
Walker, H. 51, 59
Walker, H. A. 59
Walker, S. E. 39
Wall, L. M. 27
Wallace, J. M. 51
Walsh, S. 55
Walters, L. J. 27, 28
Wang, C. 24
Wang, N. 34
Wang, P. 33, 53
Wang, P. F. 53
Wankel, S. D. 62
Wanless, H. 58
Ward, J. A. 56
Ward, K. M. 28
Ward, M. 33
Warner, J. C. 34, 52
Warner, M. J. 55, 56
Warnock, N. 46
Warren, D. E. 52
Wartel, S. 34, 61
Wasson, K. 22, 42
Watabayashi, G. Y. 24
Watanabe, Y. 42
Waters, K. J. 24
Waterson, E. J. 63
Watson, A. M. 27, 63
Watts, P. W. 38
Way, J. 27
Waycott, M. 49
Weatherby, C. 43
Webber, R. 32
Weber, M. 38, 55
Weber, M. R. 55
Weifenbach, D. K. 45
Weinkauf, A. L. 45
Weinstein, J. E. 39
Weinstein, M. P. 37, 47, 64
Weis, J. S. 22, 28, 50
Weis, P. 50
Weisberg, S. B. 37
Weishar, L. L. 56
Weissburg, M. J. 39
Weitkamp, L. A. 28
Weller, D. 47, 50
Weller, D. E. 50
Wells, C. J. 52
Wells, P. G. 49
Wells, T. M. 54
Welsh, D. T. 60
Weltz, F. 61
Wen, L. S. 63
Wenner, E. L. 53
Wertz, R. R. 52
Wescott, G. 31
West, R. J. 32
West, T. 28, 61
West, T. L. 28
Westhead, M. C. 28
Weston, N. B. 61

Wetzel, R. L. 48, 60
Whaley, S. D. 50
Wheeler, G. A. 25
Whelan, K. R. 28
White, D. 50, 53
White, J. 57, 61
White, J. R. 61
White, M. W. 25
White, S. N. 60
Whitfield, P. E. 34, 43, 50
Whiting, P. J. 61
Whitledge, T. E. 24
Whitlow, W. L. 32
Whitman, K. J. 59
Wiberg, P. 36
Widdows, J. 51, 56
Wiegert, R. G. 43
Wiegner, T. N. 63
Wigand, C. 25, 37, 60
Wijte, A. 25, 38, 39
Wilber, P. 46
Wilbur, A. 27, 37, 39, 43
Wilbur, A. R. 27, 37, 43
Wilcox, D. J. 45, 46, 52
Wilde, S. B. 33
Wilkerson, F. 26
Wilkin, J. 34
Wilkin, J. L. 34
Wilkin, M. 33, 63
Williams, D. F. 31, 52
Williams, D. S. 57
Williams, E. 56
Williams, G. D. 49, 64
Williams, L. 43
Williams, P. R. 33
Williams, S. L. 51, 54
Williams, T. 25
Williamson, R. B. 47, 54, 55
Wilson, C. G. 61
Wilson, J. G. 60
Wilson, J. R. 28
Wilson, M. 50
Wilson, R. E. 59
Wimmer, K. M. 59
Winant, C. 35
Windom, H. 22
Winkler, G. 48
Winn, W. D. 31
Winstead, J. T. 26, 27
Winter, T. C. 56
Winters, L. K. 45
Wiseman, W. J. 24
Wissel, B. 28, 54, 60, 63
Wissmar, R. C. 46
Withers, K. 28, 42, 45
Witman, J. D. 52
Woithe, R. 31, 58
Wolanski, E. 62
Wolfe, R. K. 46, 48
Wood, A. 56
Wood, R. G. 51

Woodley, C. M. 22
Woodruff, D. L. 24
Woolcott, C. A. 28
Wooller, M. 44, 45, 50
Wooller, M. J. 45, 50
Wozniak, A. S. 57
Wright, S. A. 51
Wrona, A. B. 43
Wyllie-Echeverria, S. 43, 44, 45, 47, 49
Wynne, T. T. 39
Wysocki, L. A. 59

X

Xie, L. 53, 59
Xie, L. A. 59
Xizhu , Y. 51

Y

Yakimishyn, J. L. 37
Yamaguchi, K. 22
Yamamuro, M. 22, 55
Yanez-Arcibia, L. A. 31, 42
Yang, S. Y. 45
Yarbro, L. 33, 44, 45, 59
Yarbro, L. A. 33, 59
Yarincik, K. M. 60
Yelland, D. 48
Yelverton, F. 39
Yeo, I. 47
Yergaliyev, T. 60
Yianopoulos, M. 33
Yoder, C. L. 43
York, J. K. 23
Young, C. D. 39
Young, D. R. 45
Young, K. 39
Yozzo, D. J. 33, 46
Yurista, P. M. 47

Z

Zabel, R. W. 36
Zaldivar, J. A. 26, 45
Zaldivar, J. M. 28
Zapfe, G. A. 47
Zedler, J. B. 46, 64
Zhang, C. 38
Zhang, X. 48
Zhang, Y. 33, 63
Zhao, Q. Y. 45
Zhong, L. 34
Zhu, J. 45
Zhulidov, A. V. 63
Ziebis, W. 32, 38
Zieman, J. C. 33, 43, 44, 45, 59
Zimba, P. V. 63
Zimmerman , R. C. 53
Zimmerman, R. C. 33, 60

FIELD TRIPS

Urban Restoration: Tour of the Duwamish River Estuary

Saturday, September 13 (Half-day)

Join our RAE (Restore America's Estuaries) partner People for Puget Sound on a visit to restoration sites in the heart of Seattle's industrialized urban estuary. You will learn about the history of the estuary from looking at geologic strata, and understand how the modern port and shipping facilities fit into the waterway and the estuary. This tour is half a day, and will start and end in downtown Seattle.

Deepwater Slough Estuary Restoration Tour

Saturday, September 13 (Full-day)

You will travel to the Skagit River Estuary north of Seattle, the home of the largest salmon runs in Washington, to view the Deepwater Slough restoration site. You'll board a boat to see this large-scale dike removal project up close and learn about design tradeoffs and the ongoing monitoring program. Our host will be the Skagit Fisheries Enhancement Group, a tribal cooperative dedicated to the conservation and use of Pacific salmon. Lunch will be provided.

Trip to Mount Saint Helens

Saturday, September 13 (Full-day)

At 8:32 Sunday morning, May 18, 1980, Mount St. Helens erupted. Shaken by an earthquake measuring 5.1 on the Richter scale, the north face of this tall symmetrical mountain collapsed in a massive rock debris avalanche. Nearly 150 square miles of forest was blown over or left dead and standing. At the same time a mushroom-shaped column of ash rose thousands of feet skyward and drifted downwind, turning day into night as dark, gray ash fell over eastern Washington and beyond. The eruption lasted 9 hours, but Mount St. Helens and the surrounding landscape were dramatically changed within moments.

In 1982 the President and Congress created the 110,000-acre National Volcanic Monument for research, recreation, and education. Inside the Monument, the environment is left to respond naturally to the disturbance. Join us to tour this fascinating landscape at the most dramatic of the Pacific Northwest's active volcanoes, enjoy a short hike and stop for wild blackberry pie on the way home. Roberto Llanso of Versar will be our host. Lunch will be provided.

Lake Washington/Ship Canal

Saturday, September 13 (Full-day)

You will depart from downtown Seattle, board the boat at the University of Washington and cruise around the freshwater ship canal, stopping for lunch at Fisherman's Terminal, homeport for many of Seattle's commercial fishing vessels. After lunch you will continue through the Chittenden Locks

into Puget Sound. A history of the waterway modifications will be described, with an emphasis on impacts to salmon migration. You should see adult salmon migrating through the fish ladder at the Locks. In Shilshole Bay, Puget Sound, we will sample for nearshore fish using a beach seine, and explore the beaches at Golden Gardens Park. Jason Toft of the University of Washington will be your host. Full day. Plan on buying your own Fish n' Chips. This trip is limited to 10 participants.

Sea Birding in North Puget Sound Waters

Saturday, September 13 (Full-day)

The Menzies Project invites you on board the Research Vessel Mary Beth, where passengers work alongside scientists to probe the mysteries of Puget Sound's marine environment. You will travel by road and Washington State Ferry to board the boat, which will take you to Protection Island, a US National Wildlife Refuge in the Strait of Juan de Fuca. You won't be able to go ashore at this important seabird-nesting site, but you will conduct a census of seabirds visible from the boat with the help of a trained ornithologist. You'll also use the underwater camera, collect plankton, measure water quality, count harbor seals, and carry out research on Dungeness crab and spot prawns. This trip will be a long day (10 hours) and return you back to Seattle. Lunch will be provided. This trip is limited to 20 participants.

Spartina Removal

Sunday, September 14 (Full-day)

It might be fine to plant it on the East Coast, but here in the Pacific Northwest, Spartina is considered one of the most noxious of the invasive plant species threatening native ecosystems. Join ongoing efforts to literally grapple with and control this invader as it attempts to gain a foothold in one of the most high-quality intertidal wetland areas remaining in the Puget Sound. Waterproof knee-boots and a willingness to dive right into the muddy fray are required! The Nature Conservancy will host this full day trip, leaving from downtown Seattle.

Puget Sound Boat Trip with Hands-on Sampling

Sunday, September 14 (Full-day)

You will board the boat in downtown Seattle and cruise out into Puget Sound, the deepest of the nation's developed estuaries. Throughout the day you will participate in CTD casts, plankton tows and a virtual tour of the bottom of Puget Sound (via a diver-held video camera). You will learn about this deep fjord-like estuary and the mechanics that separate it from most North American estuaries. Data collected during the cruise will be shared with University of Washington researchers and compared to the results of

ongoing numerical modeling efforts. Your host for this fieldtrip will be the Ocean Inquiry Project, a non-profit organization devoted to the promotion of marine science. Lunch will be provided on this 6-hour trip.

Tour the Olympic Peninsula

Saturday and Sunday, September 13 and 14 (Two-day)

Take a tour of the rocky shoreline and temperate rainforest of the Olympic Peninsula on this two-day trip. We will stop at many areas of interest along the way, including: Dungeness Spit, the longest natural sand spit in the United States, which has grown about 15 feet per year for the past 120 years, and extends 5 miles into the Strait of Juan de Fuca; Hurricane Ridge, a mile-high ridge in the Olympic Mountains facing the Straits and Vancouver Island receives over 400 inches of snow a year and is home to mountain goats, black bear and marmots; Sol Duc Hot Springs in the heart of the rainforest; Ruby Beach on the rocky outer coast of Washington; and the Olympic Coast National Marine Sanctuary. Accommodations for the night and lunch the first day will be provided. Your hosts for this unique trip will be People for Puget Sound.

Padilla Bay/Deception Pass North Sound Estuary Tour

Saturday & Sunday, Sept. 13-14 (Two-day)

Visit Padilla Bay National Estuary Research Reserve and Deception Pass State Park to experience the ecology of soft bottom and rocky nearshore habitats. Visit the largest eelgrass beds in Puget Sound at Padilla Bay. View marine life clinging to rocks as high tidal currents rip through Deception Pass, which is surrounded by stunning cliffs and marine scenery. This two-day trip will be an adventure; you will spend the night camping at Deception Pass State Park (which means you will need camping gear); your meals will be provided.

Washington Coastal Estuaries: Willapa/Grays Harbor

Saturday and Sunday, September 13 and 14 (Two-day)

Much of the outer coast of Washington is rocky, wild, and relatively uninhabited,

making these two large estuaries of vital importance biologically, economically, and culturally. This 2-day tour will focus on the struggle with invasive Spartina and the European green crab. You will stop and tour Sound Bend shellfish plant and learn about the local oyster industry, as well as sample some of their fresh product. Accommodations for one night and lunch the first day are included. Brett Dumbauld of Washington Department of Fish and Wildlife will be our host.



Tropical Research Laboratory on Summerland Key

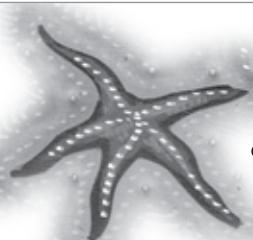
Research & Educational Opportunities
at Mote's state of the art research facility:

Located on the water in the lower Florida Keys with housing, vessels, dockage, wet and dry labs available. Ready access to varied marine and terrestrial ecosystems.



Photos & prices available: www.mote.org/Keys
E-mail: CTR-INFO@mote.org

305-745-2729



Headquartered at the University of Washington's Seattle campus, Washington Sea Grant Program encourages estuarine research, education and outreach, offering guidance and support to university researchers, natural resource managers and other stakeholders.

Washington Sea Grant Program
University of Washington
3716 Brooklyn Avenue NE
Seattle, WA 98105-6716
206.543.6600
www.wsg.washington.edu



DOWNTOWN SEATTLE

WASHINGTON STATE CONVENTION & TRADE CENTER

WASHINGTON STATE CONVENTION & TRADE CENTER

POSTER HALL



FUTURE ERF CONFERENCE DATES

OCTOBER 14-20, 2005...NORFOLK, VIRGINIA

NOVEMBER 3-9, 2007... PROVIDENCE, RHODE ISLAND