

WEDNESDAY 4 JUNE



Alliance for Marine Remote Sensing (AMRS)

ROOM 289 10.00 – 15.30

The Alliance for Marine Remote Sensing (AMRS) Association will conduct a two-day conference focusing on Hyperspectral Issues for Coastal Zone Environments.

Conference attendance is free for AMRS members and employees of sponsoring organizations. To join AMRS (US\$ 29.95), register outside room 289

AMRS Hyperspectral Issue for Coastal Environments Conference Day 1 program

Session Co-Chairs

Bob Winokur, President Earth Satellite Corporation, Rockville, MD, President AMRS Association

Dr. Ralph Garono, Wetland and Watershed Assessment Group, Corvallis, Oregon

10:00 – 10:30

Overview of hyperspectral technology with a focus on various sensors and their capabilities

Herbert Ripley

10:30 – 11:00

Exploring spectral discrimination of marsh habitat type in the New Jersey Meadowlands

Francisco Artigas

11:00 – 11:30

Potential for hyperspectral detection of light stress in the seagrass *Zostera capricorni*

S Fyfe

11:30 – 12:00

Hyperspectral remote sensing methods for studying the occurrence of dieback in spartina alterniflora along coastal Louisiana

Amina Ragoonwala

12:00 – 13:30

LUNCH BREAK

13:30 – 14:00

Using Compact Airborne Spectrographic Imager (CASI) to Develop a Spatially Linked, Hierarchical Habitat Cover Data Set along the Lower Columbia River Estuary (USA)

Becci Dale Anderson

14:00 – 14:30

Mapping the Invasive Species Chinese Tallow

Gene Nelson

14:30 – 15:00

Four-scale remote sensing approach for investigating water quality of Cowichan estuary, BC, Canada.

Maycira Costa

15:00 – 15:30

GPS Reflections for Ocean Surface Winds

Steve Katzberg



Minerals Management Service (MMS) Symposium

ROOM 295 10.00 – 17.00

The Minerals Management Service (MMS) will be hosting a day-long symposium to highlight significant oceanographic studies founded by MMS.

10:00 – 10:30

Physical Oceanography in the Gulf of Mexico

Speaker: Dr. Van Waddell

Affiliation: SAIC

10:30 – 11:00

The Geology of the Gulf of Mexico

Speaker: Dr. Harry Roberts

Affiliation: Louisiana State University

11:00 – 11:30

Deep-Sea Benthic Ecology in the Gulf of Mexico

Speaker: Dr. Gil Rowe

Affiliation: Texas A&M University

11:30 – 13:15

Lunch Break

13:15 – 13:45

The ANIMIDA Program in Northern Alaska

Speaker: Mr. John Brown and Dr. Paul Boehm

Affiliation: Battelle

13:45 – 14:15

Pacific Platform Ecology

Speaker: Dr. Milton Love

Affiliation: University of California

14:15 – 14:45

Flower Garden Banks Monitoring Program

Speaker: Mr. William Precht

Affiliation: PBS&J

14:45 – 15:30

Afternoon Break

15:30 – 16:00

Chemosynthetic Communities in the Gulf of Mexico

Speaker: Dr. Chuck Fisher

Affiliation: Pennsylvania State University

16:00 – 16:30

Hydrates

Speaker: Dr. Michael Smith

Affiliation: Minerals Management Service

16:30 – 17:00

Sperm Whale Research in the Gulf of Mexico

Speaker: Dr. Peter Tyack

Affiliation: Woods Hole Oceanographic Institute

Don Durham Symposium

ROOM 284

09.30 – 16.30

A symposium will be held to honor the achievements of Dr. Donald Durham. It will include presentations by today's luminaries from the Department of Defense, the academic community, and industry. The final presentation will be from Dr. Durham where he will reflect on his 31 years of service to the Navy community and discuss his vision of the future.

09:30 – 09:35

Welcoming Remarks and Overview
Dr. William Burnett (Chair)

09:35 – 10:05

Progress in High Performance Computing
Mr. Cray Henry (HPCMO)

10:05 – 10:35

Progress in Numerical Modelling
Dr. James J. O'Brien
(Florida State University)

10:35 – 11:00

Coffee Break

11:00 – 11:30

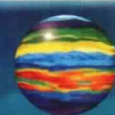
Progress in Underwater Exploration
Mr. David Jourdan (Nauticos)

11:30 – 12:00

Progress in Ocean Data Collection
Dr. Worth Nowlin (Texas A&M)

12:00 – 13:30

Lunch Break



Associated Meetings

13:30 – 14:00	Progress in Hydrography and Navigation Dr. Jay Grimes (USM)
14:00 – 14:30	Future Capabilities CAPT Tim McGee (ONR)
14:30 – 15:00	Coffee Break
15:00 – 15:30	Transitioning R&D to Operations Dr. Rick Spinrad (Navy N096T)
15:30 – 16:00	Navy Community Assessment & Introduction of RDML Thomas Q Donaldson V Dr. Durham (CNMOC)
16:00 – 16:30	Career Synopsis – Future Assessment Dr. Donald Durham
16:30 pm:	Adjourn

IOCARIBE-GOOS

ROOM 297 **14.00 – 17.00**

The Second Conference on a Regional Ocean Observing System for the Caribbean Sea and Gulf of Mexico organized by the IOCARIBE-GOOS Steering Committee. This symposium will focus on implementation of the GOOS Regional Alliance for the Caribbean and Gulf of Mexico, IOCARIBE-GOOS. Further information, including the IOCARIBE-GOOS Strategic Plan and the proceedings of the first conference (OI Americas 01, April 2001) can be found at www.ioc.unesco.org/goos/IOCARIBE/carigoos.htm. Contact: Doug Wilson, IOCARIBE-GOOS Steering Committee Co-Chairman, Doug.Wilson@noaa.gov

THURSDAY 5 JUNE

Alliance for Marine Remote Sensing (AMRS) – Day 2 program

ROOM 289 **10.00 – 16.00**

Session Chair	Herb Ripley, President, Hyperspectral Data International, Halifax, Nova Scotia, Chairperson AMRS Technical Review Committee
10:00 – 10:30	Influenced Wetlands of the Columbia River Estuary R Garono
10:30 – 11:00	Usage of Atmospheric Corrections to Hyperspectral Image Data in Identifying Water Column Constituents in the Coastal Zone Mark Bailey
11:00 – 11:30	Comparison of Techniques for Deriving Bathymetry from Remotely Sensed Data L. Yarbrough
11:30 – 13:30	LUNCH BREAK
13:30 – 14:00	Hyperspectral technology for coral reef monitoring Herbert Ripley
14:00 – 14:30	Talk on inland waters, land/water interface Robert Bukata
14:30 – 16:00	OPEN DISCUSSION on REMOTE SENSING ISSUES

Ocean.US Discussion Forum: Coastal Observation - not just for scientists anymore.

ROOM – 284 **09.30 – 12.00**

0930 – 0940	Welcome & Purpose Rick Spinrad, Chair, Ocean.US Executive Committee
0940 – 1000	Integrated Ocean Observing System - Update on Development and Implementation Plan Eric Lindstrom, Director, Ocean.US
1000 – 1020	An Integrated Observing and Modeling System for Tampa Bay, Florida Mark Luther, University of South Florida
1020 – 1040	Application of Observing System Information to Coastal Economies Mary Altalo, Science Applications International Corporation
1040 – 1100	Integrating Outreach and Education in a Regional Ocean Observing System: The SEACOOS Example Jack Thigpen, NC Sea Grant Extension Program
1100 – 1200	Discussion - Not Just for Scientists, but How do We Make the Connection to Users? Margaret Davidson, moderator

The GeoForum: The Gulf of Mexico Geohazards Forum

ROOM 285 **09.30 – 12.00**

Theme:	Future Marine Site Investigation Sensor Technology
Session Chair:	Andy Hill
09.30 – 1000	Future Developments in Swath Bathymetry Erik Hammerstad, Kongsberg Simrad, Horten, Norway
10.00 – 1030	Future Developments in Sonar Technology Bill Key, Klein Associates Inc., NH, USA
10.30 – 1100	Future Developments in Sub-Bottom Profiling John C. Spruance, Edgetech, FL, USA
11.00 – 1130	Future Developments in Geotechnical Sensor Technology Gary Humphrey, Fugro McClelland, TX, USA
11.30 – 1200	Panel Discussion



NASA's Oceanography Program

ROOM 297 **09.30 – 17.00**

The one day conference will feature brief presentations by NASA project Principle Investigators. Each researcher will present an overview of their NASA funded work and findings. The session will feature work being conducted at Jet Propulsion Laboratory, NASA's Goddard Space Flight Center, Universities across the United States and several research labs.





studying coastal environments. Specifically, ACT provides a mechanism for standardizing approaches to coastal monitoring and sensor technologies.

This lunch meeting is for existing Gulf Regional Alliance Members and for those interested in becoming Alliance Members. There will be a short presentation on recent activities of the Alliance followed by an open forum for discussion of technological issues in implementing coastal ocean observing systems. A buffet lunch will be served.

Alliance for Coastal Technology (ACT)

ROOM 295 12.00 – 13.30

ACT Gulf Regional Alliance Members Meeting:

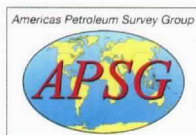
The Alliance for Coastal Technologies (ACT) is a NOAA-funded partnership of research institutions, state and regional resource managers, and private sector companies interested in developing and applying sensor technologies for monitoring and



NOAA Office of Ocean Exploration - Ocean Forum

ROOM 290 14.00 – 16.00

NOAA's Office of Ocean Exploration will convene an Ocean Exploration Forum among commercial, academic, private, and nongovernmental organizations, and government stakeholders in ocean exploration, to encourage partnerships and promote communication. Key objectives of a national ocean exploration program are mapping the physical, geological, biological, chemical, and archaeological aspects of the ocean; exploring ocean dynamics and interactions at new scales; developing new sensors and systems for ocean exploration; and reaching out in new ways to stakeholders, to improve ocean literacy of learners of all ages.



The Americas Petroleum Survey Group (APSG)

ROOM 283 14.00 – 15.00

The Americas Petroleum Survey Group (APSG) is an unincorporated association of individuals who desire to exchange geodetic and

cartographic information relating to worldwide petroleum development. The purposes of the APSG are to advance survey technology relative to the worldwide petroleum industry and to disseminate information to APSG members in respect of worldwide petroleum geodesy, surveying, cartography, and spatial data management.

Visit our presentation and learn how correct positioning can directly affect your business.



NOPP – Information Session

ROOM 288 15.30 – 17.00

Federal officials from the NOPP Interagency Working Group (IWG) will be joined by NOPP Program Office staff and others to provide a brief overview of recent developments in the NOPP program. Future plans for NOPP will be discussed, including an update on the evolving plans to develop routine ocean observations of U.S. coastal as well as open ocean waters. There will be ample opportunity for questions and comments from meeting attendees.

Visit the NOPP website at www.NOPP.ORG

THURSDAY 5 JUNE



Environmental Careers Organization (ECO) - The Oceanology International 2003 Career Seminars

ROOM 296

09.30 – 14.30

09.30-11.30

Students entry-level professionals

11.30-13.00

Working professionals

13.30-14.30

Working professionals (repeated)

Whether you work for private industry, government, academia, or the nonprofit sector, it can be tough finding a job or advancing your career in today's difficult marketplace. Make a 90 minute investment in your career by attending one of our 2003 Ocean Career Seminars? Each seminar will include an overview of trends in the ocean careers marketplace, an assessment of critical skills and experiences needed for career success, commentary from prominent employers about what they're looking for at all levels, and answers to your questions!

So, whether you're a current student, just getting started, a mid-career professional, or an experienced executive, you owe it to yourself to join with others in a lively, interactive workshop about the current state and future direction of your ocean career.

Intra-Americas Sea –

"Physical and biological processes linked to the biogeochemical fluxes in the Intra-Americas Sea." Co-Conveners: Christopher Mooers and Elva Escobar

ROOM 285

11.00 – 13.30

11:00

Hypoxia in the Gulf of Mexico

Nancy Rabalais

11:20

Recent results using Gulf of Mexico PALACE Float observations

Georges Weatherly

11:40

Limits of life in the deep sediments of the Gulf of Mexico

Roger Sassen

12:00

A seasonal cycle of mesoscale ocean variability in the IAS as revealed by the NCOM IAS Nowcast/Forecast System: a new tool for examining exchange processes

Dong-Shan Ko, Ruth H. Preller, and Paul J. Martin

12:20

Processes influencing biogeochemical cycles in the IAS: knowledge gained from remote sensing and time series studies

Frank Muller-Karger

12:40

Satellite observations of river plumes, upwelling and Loop Current eddies in the Gulf of Mexico: implications for biogeochemical fluxes

Nan Walker

13:00

Ship and satellite studies of sperm whale habitat

Steven F. DiMarco, Ann E. Jochens, and Douglas C. Biggs

13:20

PANEL DISCUSSION

13:30

ADJOURN

