**NOAA/AOML**

**Physical Oceanography Division**

**Ocean Sciences Meeting Presentations**

**Monday, February 22, Oral Presentations**

08:00AM-08:15AM

Global characteristics of coherent eddies from drifter trajectories (PO11C-01, Room 208-209)

Authors: **Rick Lumpkin**.

11:30AM-11:45AM

Mississippi Waters Reaching South Florida Reefs Under No Flood Conditions: Synthesis of Observing and Modeling System Findings (PO12A-05, Room 208-209)

Authors: **Matthieu Le Hénaff,** Vassiliki Kourafalou.

11:45AM-12:00PM

High Resolution Forecasts in the Florida Straits: Predicting the Modulations of the Florida Current and Connectivity Around South Florida and Cuba (PO12A-06, Room 208-209)

Authors: HeeSook Kang, Vassiliki Kourafalou, Natalie Perlin, **Matthieu Le Hénaff,** John Lamkin.

02:00 PM - 02:15 PM

Recent Daily MOC Variability Estimates at 34.5°S from in situ Observations and Comparisons with Estimates at 26.5°N (PO13D-01, Room 215-216)

Authors: [Sabrina Speich](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/79969), [**Christopher Meinen**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/14421), [Edmo Campos](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/23083), [Alberto Piola](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/5608), [**Silvia Garzoli**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/78444)**,** [Michael Roberts](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/59358), [Isabelle Ansorge](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/180979), [**Renellys Perez**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/70995)**,** [**Shenfu Dong**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/77830), [Thierry Terre](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/248292), [Marcel Van den Berg](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/181264).

2:15PM-2:30PM

Deep Western Boundary Current variability at 34.5S during 2009-2015 (PO13D-02, Room 215-216)

Authors: **C. S. Meinen, S. L. Garzoli**, E. Campos, A. R. Piola, M. P. Chidichimo, **R. C. Perez, S. Dong**, and O. Sato

02:30 PM - 02:45 PM

Producing a Climate-Quality Database of Global Upper Ocean Profile Temperatures - The IQuOD (International Quality-controlled Ocean Database) Project (OD13A-03, Room RO1)

Authors: Rebecca Cowley, Matthew Palmer, Catia Domingues, Janet Sprintall, Toru Suzuki, Masayoshi Ishii, Tim Boyer, **Gustavo Goni**, Viktor Gouretski, Alison Macdonald, Ann Thresher, Simon Good, and Stephen Diggs

02:45PM-3:00PM

Potential Impact of North Atlantic Climate Variability on Ocean Biogeochemical Processes (ME-13A, Room RO2)

Authors: **Yanyun Liu,** Barbara Muhling, **Sang-Ki Lee**, Frank E Muller-Karger, David B Enfield, John T Lamkin and Mitchell A Roffer

03:00 PM - 03:15 PM

Intraseasonal to Interannual Variability of the Brazil Current Transport Measured at 34.5°S - Baroclinic and Barotropic Contributions (PO13D-05, Room 215-216)

Authors: [Maria Paz Chidichimo](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/194864), [Alberto Piola](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/5608), [**Christopher Meinen**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/14421), [Edmo Campos](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/23083), [**Silvia Garzoli**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/78444), [Sabrina Speich](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/79969), [**Renellys Perez**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/70995)**,** [**Shenfu Dong**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/77830), [Ricardo Matano](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/72282), [Vincent Combes](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/87160)

**Monday, February 22, Poster Presentations (4:00PM-6:00PM)**

An Observations and Model-based Analysis of the Temporal Variability of the Brazil Current

(Poster PO14E-2860)

Authors: **Claudia Schmid** and **Sudip Majumder**

An Observations and Model Based Analysis of Meridional Transports in the South Atlantic

(Poster PO14E-2856)

Authors: **Sudip Majumder, Claudia Schmid,** and **George Halliwell**

Linking the South Atlantic Meridional Overturning Circulation and the Global Monsoons (PO14E-2852)

Authors: **Hosmay Lopez, Shenfu Dong, Gustavo Goni,** and **Sang-Ki Lee**

Circulation and Water Mass Variability in the South Atlantic Subtropical Gyre (Poster PO14E-2857)

Authors: **R. C. Perez**, R. Msadek, **S. L. Garzoli**, R. P. Matano, **C. S. Meinen**, M. P. Chidichimo

South Atlantic Meridional Overturning Circulation in an eddy resolving global numerical simulation (Poster PO14E-2855)

Authors: Xiaobiao Xu, **Shenfu Dong, Molly Baringer, Gustavo Goni**, and Eric Chassignet

Towards Reducing Uncertainty in Historical XBT Data: An International Effort from the XBT Science Team (Poster OD14C-2434)

Authors: Rebecca Cowley, Cheng Lijing, **Gustavo Goni**, Tim Boyer, John Abraham, Susan Wijffels, Viktor Gouretski, Franco Reseghetti, Shoichi Kizu, **Shenfu Dong**, **Francis Bringas**, **Marlos Goes**, Loic Houpert, Janet Sprintall, and Jiang Zhu

Optimizing Observation Networks Combining Ships of Opportunity, Gliders, Moored Buoys and FerryBox in the Bay of Biscay and English Channel (Poster PO14A-2741)

Authors: Julien Lamouroux, Guillaume Charria, Pierre De Mey, Stéphane Raynaud, Catherine Heyraud, Philippe Craneguy, Franck Dumas, **Matthieu Le Hénaff**.

Shelfbreak Current over the Canadian Beaufort Sea Continental Slope: WInd-driven Events in January 2005 (Poster HE14B-1400)

Authors: Igor Dmitrenko, Sergei Kirillov, Yves Gratton, **Denis Volkov**, William Williams, Jennifer Lukovich, Claude Belanger, David Barber.

**Tuesday, February 23, Oral Presentations**

3:15PM-3:30PM

The role of subsurface currents in supplying the seasonal upwelling in the Eastern Equatorial Atlantic (A23A-06, Room 210)

Authors: Athanasia Papapostolou, Bill Johns, Peter Brandt, Julien Jouanno, and **Rick Lumpkin**

**Tuesday, February 23, Townhall (12:45PM-1:45PM)**

MPOWIR - Past, Present, Future (Room 211-213)

Authors: Colleen Mouw, Sonya Legg, Sarah Clem

**Renellys Perez** will participate in a panel discussion with other scientists.

**Tuesday, February 23, Poster Presentations (4:00PM-6:00PM)**

Student-Teacher-Researcher Collaboration through NOAA’s Adopt A Drifter Program (Poster ED24B-1669)

Authors: Diane Stanitski, Meghan Cronin, Neil Malan, Isabelle Ansorge, Lisa Beal, Juliet Hermes, **Rick Lumpkin**, and **Shaun Dolk**

The Use of PIES Data to Observe South Atlantic Subtropical Mode Water (Poster PO24C-2970)

Authors: Matheus Cortezi, Olga Sato, and **Christopher Meinen**

Contributions of the atmosphere-land and ocean-sea ice model components to the tropical Atlantic SST bias in CESM1 (Poster PC24B-2150)

Authors: [Zhenya Song](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/79749),[**Sang-Ki Lee**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/75459), [**Chunzai Wang**](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/14568), [Ben Kirtman](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/9299), and [Fangli Qiao](https://agu.confex.com/agu/os16/meetingapp.cgi/Person/69064)

**Wednesday, February 24, Oral Presentations**

NONE

**Wednesday, February 24, Poster Presentations (4:00PM-6:00PM)**

Ocean impact on the South American summer precipitation (Poster A34A-2628)

Authors: **Marlos Goes**, Dian Putrasahan, Leo Siqueira and Vinicius Webber

Different Responses of Sea Surface Temperature in the South China Sea to Various El Niño Events during Boreal Autumn (Poster: PC34B-2169)

Authors: Xin Wang, Wei Tan, Weiqiang Wang, **Chunzai Wang**

**Thursday, February 25, Oral Presentations**

8:45AM-9:00AM

Analysis of Inertial Oscillations in the Global Surface Drifter Dataset (PO41B-4, Room 208-209)

Authors: Jonathan Lilly, Adam Sykulski, Jeffrey Early, Shane Elipot, **Rick Lumpkin**, **Renellys Perez** and Sofia Olhede

9:00AM-9:15AM

Interannual variability of the meridional heat transport at 26.5N and impacts on North Atlantic heat content (Oral PO41A-05 Room 203-305)

Authors: William Johns, Jian Zhao, Gerard McCarthy, David Smeed, **Christopher Meinen, Molly Baringer**, and Eleanor

**Thursday, February 25, Poster Presentations**

A new global surface drifter dataset at hourly resolution (Poster PO44D-3180)

Authors: Shane Elipot, **Rick Lumpkin**, and **Renellys Perez**

**Friday, February 26, Oral Presentations**

8:15AM-8:30AM

Measuring the AMOC at 26N: the record so far and the potential for real-time data in the future (PO51A-02, Room 203-205)

Authors: David Smeed, Gerard McCarthy, Darren Rayner, Bengamin Moat, Eleanor Frajka-Williams, William Johns, **Christopher Meinen**, **Molly Baringer**, and Aurelie Duchez

8:45AM-9:00AM

Dynamic Potential Intensity: An Improved Representation of the Ocean's Impact on Tropical Cyclones (A51A-04, Room 210)

Authors**: Gregory R Foltz**, Karthik Balaguru, L. Ruby Leung, Eric A D'Asaro, Kerry Emanuel, Hailong Liu, and Sarah E Zedler

9:00AM-9:15AM

Variability of Tropical Cyclone Rapid Intensification in the North Atlantic (Oral - A51A-05, Room: 210)

Author: **Chunzai Wang**

02:30PM-02:45PM

Altimetry-derived Gulf Stream Property Changes: Is the Sea Level Rise Along the U.S. Eastcoast Linked to the Gulf Stream Slow Down? (PO53E-03 Room 231-232)

Authors: **Shenfu Dong**, **Molly Baringer**, and **Gustavo Goni**

11:30AM-11:45AM

Assessment of Ocean Observing System Enhancements to Improve Coupled Tropical Cyclone Intensity Prediction (A52A-05, Room 210)

Authors: **George Halliwell, Michael Mehari, Jili Dong,** Vassiliki Kourafalou, **Robert Atlas,** HeeSook Kang, **Matthieu Le Hénaff**.

2:30PM-2:45PM

Quantifying the Impacts of Initial and Wind Forcing Uncertainties on Oceanic ForecastUncertainties in the Gulf of Mexico (PO53C-03, Room 207)

Authors: Mohamed Iskandarani, Guotu Li, **Matthieu Le Hénaff**, Justin Winokur, Olivier Le Maitre, Omar Knio.

**Friday, February 26, Poster Presentations (4:00PM-6:00PM)**

Upper-ocean response to Hurricane Gonzalo (2014): salinity effects revealed by targeted and sustained underwater glider observations (Poster A54C-2736)

Authors: **Ricardo Domingues, Gustavo Goni, Francis Bringas, Sang-Ki Lee**, Hyun-Sook Kim, **George Halliwell, Jili Dong**, Julio Morell, and Luis Pomales.

The Impact of 1D and 3D ocean model to tropical cyclone forecasts with the HWRF-HYCOM coupled model (Poster A54C-2725)

Authors: **Jili Dong,** Hyun-Sook Kim, **George Halliwell, Sang-Ki Lee,** and **Gustavo Goni**

Changes of Florida Current Transport and Salinity Transport and Impact on North Atlantic Circulation (Poster PO54A-3220)

Authors: Zoltan Szuts, and **Christopher Meinen**

Causes of Upper-Ocean Temperature Anomalies in the Tropical North Atlantic (PO54F-3316)

Authors: Allyson Rugg, **Gregory Foltz**, and **Renellys Perez**

Temporal Variability of the South Atlantic Meridional Overturning Circulation between 20°S and 35°S (Poster PO54F-3315)

Authors: **Gustavo Goni**, **Shenfu Dong**, and **Francis Bringas**