

CURRICULUM VITAE ET STUDIORUM
Leonardo Macelloni, Ph.D.
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Personal information

Date of Birth 9 August 1975
Gender Male
Marital Status Unmarried
Citizenship Italian
Hobbies reading, cooking, traveling

Actual Position

Research Associate National Institute for Undersea Science and Technology (NIUST), and National Center for Physical Acoustic (NCPA) University of Mississippi.

Education

2005 Ph.D. in Earth Science with emphasis in Applied Geophysics.
"La Sapienza" University of Rome, Department of Earth Science, School of Science "Dissertation: High-resolution marine digital seismic method: theoretical constraints, digital processing, new developments.

2001 Master of Science in Geology *summa cum laude*
"La Sapienza" University of Rome, Department of Earth Science, School of Science University of Rome. Thesis: Analysis and interpretation of gravimetric and magnetic data collected off shore Magdalena River (Colombia, Caribbean Sea).

Professional Experience

2012-2014 Senior Geophysicist
Schlumberger Geosolution. Schlumberger House, Buckingham Gate RH6 0NZ Gatwick West Sussex. U.K.

- Led Geophysical team working on two contracts with BP and Statoil to characterize subsidence and fractures generation in two carbonate reservoirs in the North Sea (Vahall and Oseberg) using time lapse 4C seismic data.
- Act as liaison geophysicist between the Geosolution Data Processing and Research and Development groups.
- Train and mentor junior personnel

2005-2012 Research Assistant Professor
Mississippi Mineral Resources Institute. School of Engineering; 111 Brevard Hall, The University of Mississippi, 38677 (MS).

- Research in the use of geophysical and acoustical methods for characterize carbonate\hydrates mounds and natural hydrocarbon leakage in the Gulf of Mexico.
- Responsible for projects and direction of the Seafloor Mapping program in the Seabed Technology Research Center

- Directed the graduate research for 10 students from University of Rome and the University of Mississippi
- Led cooperative effort with University of South Carolina to characterize the geology of MC118 subsurface
- Leader of NIUST Seafloor Mapping Initiative
- Leader of the Mapping Team of the Ecosystem Impacts of Oil and Gas Inputs to the Gulf (ECOGIG). The ECOGIG is one of the 8 Research Consortia awarded by the Gulf Research Institute (GRI) to study the long term impact of the Deep Water Horizon Oil Spill in the Gulf of Mexico.
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2005 Researcher Associate (Post Doc)

Applied Geophysics Lab, Department of Hydraulic, Transportation and Road, School of Engineering, "La Sapienza" University of Rome

- Use of geophysical methods for archeological investigations

Sabbatical/short staying

2014 -2015 Marie Curie Fellow IGAG CNR Rome Italy.

- Leading the European Union Flagship project on the characterization of marine geo-hazard features (i.e. landslide, canyons and tectonic active faults) using near-seafloor geo-mechanical Analysis and elastic wavefield seismic stratigraphy derived from 4C Seismic Data

Fall 2011 Visiting Scientist Exploration Geophysics Laboratory, Bureau of Economic Geology, University of Texas at Austin.

- Led the University of Mississippi component of analysis of ocean bottom seismometer data from the Gulf of Mexico gas hydrates observatory

Summer 2007, summer2009 Visiting Professor Department of Earth and Ocean Science University of South Caroline, Columbia South Carolina.

- Joined the Geophysical Exploration Lab, to train students in integrate multiple resolution seismic data.

Fall 2008 Visiting Professor Earth Science Department "La Sapienza" University of Rome

- Conducted research on define and image the prominent marine geo-hazard features along Italian coasts.

Teaching Experience

2012/2014 Instructor of a 2 weeks course in "Introduction of seismic multicomponent data processing" for the new hires in Schlumberger Geosolution

2011/2012 Lecturer, Department of Geology and Geological Engineering, School of Engineering, University of Mississippi. Taught graduate level course in Marine Geophysics

2004/2005 Instructor of Applied Geophysics for the Master in Environmental Engineering, School of Engineering. La Sapienza University of Rome

2003/2004 Instructor of Marine Geophysics for the Bachelor of Natural Science, School of Science La Sapienza University of Rome.

2002/2003 Instructor of Geology 101 for the Bachelor of Natural Science, School of Science La Sapienza University of Rome.

2005-present Adjunct Faculty Department of Earth Science, La Sapienza University of Rome.

Record of research funding

- Utilizing Acoustic and Geophysics Technology to Assess and Monitor Watersheds in the United States. Funded by United States Department of Agriculture, total grant \$ 670000, (2016-2017). P.I. Craig Hickey, Co P.I.: B. Goodwiller, Z. Lu, W. Carpenter; L. Macelloni.
- Gulf of Mexico Seafloor Observatory: A Remote Station to Monitor the Gas Hydrate Stability Zone in the Northern Gulf of Mexico Funded by US DOI BOEM, total grant \$1.025 Million (2010-2015). Principal Investigator Carol B. Lutken, Macelloni L, and McGee T.M.
- Characterization of marine geo-hazard features (i.e. landslide, canyons and tectonic active faults) using near-seafloor geo-mechanical Analysis and elastic wave-field seismic stratigraphy derived from 4C (CaGeo4C). Awarding Institution: European Union under FP7-People - Co-funding of Regional, National and International Programmes, GA n. 600407 and RITMARE Flagship Project. Grant amount and year. € 120.000, 2014-2015. P.I. Leonardo Macelloni
- Temporal Characterization of Hydrates System Dynamics beneath Seafloor Mounds Integrating Time-Lapse Electrical Resistivity Methods and In Situ Observations of Multiple Oceanographic Parameters. Awarding Institution U. S. Department of Energy National Energy Technology Laboratory FY 2012 Methane Hydrate Program Addressing Topic Area 2, Response of Methane Hydrate Systems to Changing Climates Funding Opportunity, DE-FOA0000668. Grant amount \$ 1.2 Million (2012-2015). PI Leonardo Macelloni, Co-PI: Carol Lutken, John Dunbar Paul Higley
- Near seafloor geology at MC118 using converted shear-waves from 4C seafloor sensor data. Funded by DOI NETL, total grant \$90000, (2011-2012). Principal Investigator L. Macelloni, Co-P.Is. B. Hardage and C. Lutken
- Integration of Multiple of Geological and Geophysical Methods to advance Shallow Subsurface Characterization at MC118. Funded by US DOI NETL, total grant \$ 350000. (2010-2011).Principal Investigator L. Macelloni, Co-P.I. C. Lutken.
- Connecting the historic 2011 Mississippi River flood to marsh sedimentation on the Delta. Funded NSF Rapid, Total Grant \$ 50000 (2011-2012). PI: Douglas J. Jerolmack, Co-PIs: Carol Lutken, Leonardo Macelloni, Karen McKee and Benjamin Horton.
- Creation of ultra-high resolution multibeam sonar images targeting deep sea coral habitats in Hudson Canyon. Funded by NOAA (2010). Total grant \$ 208.000. Principal Investigator Vince Guida NOAA NMFS, Co P.I. Rona P. Scranton and Macelloni L.
- Core Sampling at Selected Sites East of the Saint Bernard Shoal Sand Body, Offshore Mississippi. Funded by MMS and USGS. Total Grant \$ 30000 (2008-2009). P.I. C.B. Lutken Co-P.I. L. Macelloni
- Geological and Geophysical Baseline Characterization of Gas Hydrates at MC 118, Gulf of Mexico. Funded by Department of Energy. Total grant \$ 284000 (2009-2010). Principal Investigator Camelia Knapp, University of South Carolina: Co-P.I. Knapp J.H. Macelloni L.
- Processing and Interpretation of TGS-NOPEC Industry Seismic Data and Integration with Existing Surface-Source/ Deep-Receiver (SSDR) High Resolution Seismic Data at MC118, Gulf of

Mexico. Funded by Department Energy. Total grant \$ 200.000 (2008-2009). Principal Investigator Camelia Knapp University of South Carolina, Co-P.I. Knapp J.H and Macelloni L.

Scientific activity within International projects and partnership

- Italian Project “Individuation and evaluation of sand deposits for the Lazio and Tuscany beach nourishment”; funded by Lazio and Tuscany Department of Tourism. Responsible Prof. G.B La Monica and Dr. F.L. Chiocci (1999-2007).
- International Project “International Geological Correlation Program 464 “Continental Shelves during Last Glacial Cycle”, funded by Unesco. Project Leaders: Dr. F. L. Chiocci, Dr. A. Chivas (2001-2005).
- Italian Project “Knowledge of the Italian Volcanoes submarine portions and evaluation of the potential volcanic hazard”; funded by Volcanology National Group. Responsible Dr. F. L. Chiocci (2002-2004).
- Italian Project: “Study of the landslide and tsunami event occurred in Stromboli Island on December, 30, 2002”; funded by National Agency of Civil Protection. Responsible Dr. F.L. Chiocci (2003-2005).
- Italian Project “Bathymorphologic and seismostratigraphic study of Tiber River riverbed”, funded by Tiber River Hydrographic Office. Responsible Prof. M. Bernabini (2005-2007).
- Italian Project “Marine Geo-hazards along the Italian Coasts (MAGIC)” Project funded by Italian Civil Protection Agency, P.I. Dr. F.L. Chiocci (2007-2011)

Students tutoring: Master Degree Dissertation advisor:

2006 Marco Ciccari. Master of Science in Environmental Engineering (La Sapienza University of Rome).

2007 Simona Caruso. Master of Science in Geology (Exchange Student “La Sapienza” University of Rome).

2008 Mariangela Lodi. Postgraduate Scholarship (Exchange Student “La Sapienza” University of Rome).

2008 Justin Janaskie, Master of Science Geological Engineering University of Mississippi

2009 Antonello Simonetti. Master of Science in Geology (Exchange Student “La Sapienza” University of Rome).

2010 Martina Pierdomenico. Master of Science in Marine Science (Exchange Student “La Sapienza” University of Rome).

2010 Michela Ingrassia. Master of Science in Marine Science (Exchange Student “La Sapienza” University of Rome).

2011 Marco Pizzi Postgraduate Scholarship (Exchange Student “La Sapienza” University of Rome).

2014 Alessandra Conti Master of Science in Marine Science (Exchange Student “La Sapienza” University of Rome).

2014 Francesca Marra Master of Science in Marine Science (Exchange Student “La Sapienza” University of Rome).

2015 Francesca Battaglia Master of Science in Exploration Geology La Sapienza University of Rome

2015 Paola Cucuzza Master of Science in Exploration Geology La Sapienza University of Rome

2015 Daniele De Marco Master of Science in Exploration Geology La Sapienza University of Rome

Professional Recognitions, Contributions, and Education

2012 Invited key note Speaker USGS-CUAHSI-SOS Workshop on Sediment Hydroacoustic Techniques in Rivers and Streams

2012 Co-Organizer Marine Gas Hydrate Deposits: Research, Monitoring Strategies and Present-Day Knowledge Session. Ocean Sciences Salt Lake City, USA

2010 Invited Speaker Department of Earth and Ocean Sciences. University of Victoria British Columbia Canada.

2009 Invited Speaker Laboratory for Modeling and Scientific Computing MOX Politecnico di Milano.

2007 Invited Speaker U.S. Army Corps of Engineers, Vicksburg MS, USA.

2006 Invited Speaker Naval Research Laboratory Stennis Space Center MS, USA

2009-2012 Serve as judge in the Oxford High Schools Science Competition

Awards and Honor

2014 European Union Marie Curie Fellowship Co-Fund Action Experienced Researchers

2013 Schlumberger Petro Technical Expert (PTE) Level I

2011 "Top 10 "best Poster presentation AAPG International Meeting and Exhibition, Milan Italy

2010 The Gulf Coast Association of the Geological Society (GCAGS) Grover E. Murray Second Best Published Paper Awards

2008 US NSF fellowship to attend IEEE/OES Chile-US Workshop on Ocean Observation Systems, Working Group on Observation and Assessment of Gas Hydrates in the Coastal Ocean, Vina Del Mar, Chile, 4-7 Nov., 2008.

Technical skills

Excellent knowledge of Windows and Linux operative systems

Excellent knowledge in seismic data processing and interpretation software (Promax, Omega, Petrel Kingdome Suite)

Excellent knowledge in multibeam data processing and Digital Terrain Model generation (Caris HIPS SIPS, Surfer, Global Mapper, Flidermouse).

Excellent knowledge in Side Scan Sonar data processing

Good knowledge in scientific programming language (MatLab, Fortran)

Very Good knowledge in GIS and Cad GIS software (Archview, Microstation, AutoCAD, AutoCAD Map).

Language skills

Italian: native speaker, English: excellent (reading, speaking and writing), Spanish: elementary.

Courses and Training.

Advanced Multibeam data processing. Intensive Training Class of Caris HIPS and SIPS.

AAPG Predicting gas hydrates using pre-stack seismic and LWD data in deep water Gulf of Mexico.

Omega Seismic Data Processing Software Advance Training, (certified)

Petrel advance training (certified)

Professional Affiliation

American Geophysical Union (AGU), Geological Society of Italy (SGI), Italian Group Earth Solid Geophysics (GNGTS), Mississippi Academy of Science (MAS), Society of Exploration Geophysics.

List of Publications

Google Scholar: Citations 212, Index H 8, i10-index 7; Scopus: Citations 104, Index H 6

Ph.D. Dissertation

L. Macelloni, 2005, La sismica ad alta risoluzione digitale a mare: vincoli teorici, elaborazione numerica e nuovi sviluppi (High-resolution marine digital seismic method: theoretical constrains, digital processing, new developments). Pagine 171, PADIS - Pubblicazioni Aperte Digitali Interateneo Sapienza [PHD--2005-187] <http://padis.uniroma1.it/>

Peer Reviewers Journals

Macelloni, L., Lutken, C. B., Ingrassia, M., D'Emidio, M., & Pizzi, M. (2016). Mesoscale biogeophysical characterization of Woolsey Mound (northern Gulf of Mexico), a new attribute of natural marine hydrocarbon seeps architecture. *Marine Geology*, 380, pages 330-344.

A. Conti, M. D'Emidio, L. Macelloni, C. Lutken, V. Asper, M. Woolsey, R. Jarnagin, A. Diercks, and R.C. Highsmith, 2016, Morpho-acoustic characterization of natural seepage features at ECOGIG OC26 site. *Deep Sea Research II*, 129, pages.53-65

Casalbore D., Bosman A., Chiocci F.L., Ingrassia M., Macelloni L, Sposato A., Martorelli E, 2015, New insights on failure and post-failure dynamics of submarine landslides on the intra-slope Palmarola ridge. In *Submarine Mass Movement and their Consequences. In Advances in Natural and Technological Hazards Research Volume 41*, pp.621 Eds. Geoffry Lamarche and Sebastien Krastel.

Pierdomenico M., Guida V. G., Macelloni L., Chiocci F.L., Rona P.A., Scranton M.I., Asper V., Diercks A., 2015, Sedimentary facies, geomorphic features and habitat distribution at the Hudson Canyon head from AUV multibeam data. *Deep Sea Research Part II: Topical Studies in Oceanography*, Volume 121, November 2015, Pages 112-125.

Peter Rona, Vincent Guida, Mary Scranton, Donglai Gong, Leonardo Macelloni, Martina Pierdomenico, Arne-R. Dierckss, Vernon Asper, Scott Haag, Hudson submarine canyon head offshore new york and new Jersey: A physical and geochemical investigation, *Deep Sea Research Part II: Topical Studies in Oceanography*, Volume 121, November 2015, Pages 213-232.

Ingrassia M., Macelloni L., Bosman A., Chiocci F.L. , Cerrano C., Martorelli E., 2015, Black coral (Anthozoa, Antipatharia) forest near the western Pontine Islands (Tyrrhenian Sea). *Marine Biodiversity*, DOI 10.1007/s12526-015-0315-y

Ingrassia, M., Martorelli, E., Bosman, A., Macelloni, L., Sposato, A., Chiocci F.L., 2015, The Zannone Giant Pockmark: first evidence of a giant complex seeping structure in shallow water, central Mediterranean Sea, Italy. *Marine Geology* 363 (2015) 38–51

Macelloni, L., Lutken, C. B., Garg, S., Simonetti, A., D'Emidio, M., Wilson, R.M., Sleeper, K., Lapham, L., Lewis, T., Pizzi, M., Knapp, J., Knapp, C., J. Brooks and McGee T.M, 2015, Heat-flow regimes and the hydrate stability zone of a transient, thermogenic, fault-controlled hydrate system (Woolsey Mound northern Gulf of Mexico). *Marine and Petroleum Geology* 59 (2015) 491-504

Rachel Wilson, Leonardo Macelloni, Antonello Simonetti, Jeffrey Chanton, Jim Knapp, Laura Lapham, Carol Lutken, Camelia Knapp, Ken Sleeper, Charlotte Brunner, Marco D'Emidio (2014). Subsurface methane sources and migration pathways within a gas hydrate mound system, Gulf of Mexico. *Geochemistry, Geophysics, Geosystems*. Volume 15, Number 1, January 2014

Simonetti, A., Knapp, J.H., Sleeper, K., Lutken, C.B., Macelloni, L., Knapp, C.C., 2013, Spatial Distribution of Gas Hydrates from High-Resolution Seismic and Core Data, Woolsey Mound, Gulf of Mexico. *Journal of Marine and Petroleum Geology*. *Marine and Petroleum Geology* 44 (2013) 21-33

Macelloni, L., Charlotte A. Brunner, Simona Caruso, Laura L. Lapham, Carol B. Lutken, Marco D'Emidio, 2013. Spatial distribution of seafloor bio-geological and geochemical processes as proxies of fluid flux regime and evolution of a carbonate/hydrates mound, northern Gulf of Mexico. *Deep-Sea Research I* 74 (2013) 25–38

Falcini F., Khan, N.S., Macelloni, L., Horton, B.P., Lutken, C.B., McKee, K.L., Santoleri, R., Colella, S., Li, C., Volpe, G., D'Emidio, M., Salusti, A., Jerolmack, D.J., 2012 Linking the historic 2011 Mississippi River flood to coastal wetland sedimentation. *Nature Geoscience*, 5 (11), pp. 803-807

Macelloni L., Simonetti A., Knapp J.H., Knapp. C.C., Lutken C.B., L. Lapham, 2012, Multiple resolution seismic imaging of a shallow hydrocarbon plumbing system, Woolsey Mound, Northern Gulf of Mexico. *Journal of Marine and Petroleum Geology*, 38, pp. 128-142.

Macelloni L., Battista B.M., Knapp C.C., 2011, Optimal Filtering High-Resolution Seismic Reflection Data Using a Weighted-Mode Empirical Mode Decomposition Operator. *Journal of Applied Geophysics*. Volume 75, Issue 4, December 2011, Pages 603-614

T. McGee, L. Macelloni, A. Bosman, C. Lutken, C. Brunner, R. Rogers, J. Dearman, K. Sleeper, J.R. Woolsey, 2010. Hydrocarbon Gas Hydrates in Sediments of the Gulf of Mexico. In *Sediment-*

hosted Gas Hydrates: New Insights on Natural and Synthetic Systems. Geological Society of London, Special Publication, 319, 29-49.

Proceedings

Pierdomenico M., Guida V., Macelloni L., Gong D., Scranton M., Dierks A., and Rona P. Understanding the Hudson Submarine Canyon fishing "hotspot": the contribute of seafloor morphology, water mass dynamic and methane emission on marine biodiversity. INCISE, 2nd International Symposium on Submarine Canyons, 29th September-1st October 2014, Edinburgh.

Wilson, R. M., Macelloni, L., Simonetti, A., Knapp, J., & Chanton, J. P. (2013). Integrating seismic data and geochemical profiles to identify methane provenance, cycling, and migration pathways. In ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY (Vol. 245). 1155 16TH ST, NW, WASHINGTON, DC 20036 USA: AMER CHEMICAL SOC.

Woolsey M, R. Jarnagin, K. Sleeper, L. Macelloni, M. D'Emidio, A.-R. Diercks, V. L. Asper, 2013, Integration of a Polarity-Preserving Chirp Subbottom Profiler into the NIUST AUV Eagle Ray. In Proceedings of the OCEANS 2013 MTS/IEEE San Diego September 23 26.

Pierdomenico M., Martorelli E., Guida V., Macelloni L. & Chiocci F.L. Benthic Habitat Mapping at Hudson Canyon head by integrated analysis of acoustic and groundtruth data: insights for the definition of approaches and methodologies. 12^o International Symposium - GEOHAB 2013. Rome, Italy, 6-10 May 2013

Pierdomenico M., Guida V., Rona P., Macelloni L., Scranton M., Asper V., and Diercks A. Hudson Canyon benthic habitats characterization and mapping by integrated analysis of multidisciplinary data. Geophysical Research Abstracts Vol. 15, EGU2013-11501, 2013. EGU General Assembly 2013

Lutken, Carol B., Marco D'Emidio, Leonardo Macelloni, Michela Ingrassia, Martina Pierdomenico, Vernon Asper, Arne Diercks, Max U. Woolsey, Roy Jarnagin, 2013, Challenges in imaging the deep seabed: examples from Gulf of Mexico cold seeps, Transactions of the GCAGS, New Orleans, 2013.

Lutken C.B., Sleeper K., Easson G., Macelloni L., Smith G., 2012, The Gulf Of Mexico Gas Hydrates Seafloor Observatory. AGU Science Policy Conference. Washington D.C. May 1-2, 2012 (Abstract # 1365981).

Marco, D'Emidio, Michela Ingrassia, Lutken Carol B., Leonardo Macelloni, Antonello Simonetti, Marco Pizzi, Laura Lapham, Rachel Wilson, Pen-Yuan Hsing, Charles Fisher, 2012, Biogeophysical Classification of Seafloor Seeps at a Carbonate-Hydrate Mound, Northern Gulf of Mexico, GRC "Natural Gas Hydrates System", Ventura, CA, March 18-23, 2012.

Marco, Pizzi, Leonardo Macelloni, Lutken Carol B., Marco D'Emidio, 2012, Temporal Evolution of MC118 Woolsey Mound seep activity: constraints from analysis of small-scale salt-induced sediment deformation, GRC "Natural Gas Hydrates System", Ventura, CA, March 18-23, 2012.

Macelloni, L.; Carrier, O.; D'Emidio, M.; Gerstoft, P.; Simonetti, A.; Knapp, C. C.; Knapp, J. H.; Lutken, C. B.; Hardage, B. A.; Sleeper, K.; 2012. Geophysical Evidence Of Shallow Hydrates Formation And Accumulation at Woolsey Mound, Mississippi Canyon Block 118. 2012 Oceans Science Meeting, (Abstract ID:9539) P.

D'Emidio, M.; Ingrassia, M.; Lutken, C. B.; Macelloni, L.; Simonetti, A.; Lapham, L. L.; Wilson, R. M.; Hsing, P.; Fisher, C., 2012; Biogeophysical Classification Of Seafloor Seeps At A Carbonate-Hydrate Mound, Northern Gulf of Mexico. 2012 Oceans Science Meeting (Abstract ID:9968) P.

Falcini, Federico; Chunyan Li; Marco D'Emidio; Carol Lutken; Leonardo Macelloni; Alessandro Salusti; Douglas J. Jerolmack (2011) Hydrographic and suspended sediment measurements of the Mississippi River plume during the historic 2011 flood: a coupled satellite analysis and boat survey approach to determine an efficiency factor for sediment trapping in the near-shore zone, Abs EP44A-07, American Geophysical Union Fall Meeting, San Fran. CA, 12-16 Dec.

Wilson, R. M.; Lapham, L.; Farr, N.; Lutken, C.; MacDonald, I. R.; Macelloni, L.; Riedel, M.; Sleeper, K.; Chanton, J., 2011, Does the "sleeping Dragon" Really Sleep?: the Case for Continuous Long-Term Monitoring at a Gulf of Mexico Cold Seep Site. American Geophysical Union, Fall Meeting 2011, abstract #OS13D-1566

Lutken, Carol; Marco D'Emidio; Federico Falcini; Benjamin P. Horton; Douglas J. Jerolmack; Nicole S. Khan; Chunyan Li; Leonardo Macelloni; Karen L. McKee (2011) Connecting the historic 2011 Mississippi River flood to marsh sedimentation on the Delta, Abs B24D-08, American Geophysical Union Fall Meeting, San Fran. CA, 12-16 Dec

Lutken, Carol B., Antonello Simonetti, Michela Ingrassia, Leonardo Macelloni, James H. Knapp, Charles Fisher, Simona Caruso, Marco D'Emidio, 2011, Bio-geophysical Classification of Seafloor Seeps at a Carbonate-Hydrate Mound, Northern Gulf of Mexico, AAPG International Conference and Exhibition, Milan, Italy, October 23-27, 2011.

Vincent G. Guida, Peter A. Rona, Vernon Asper, Arne Diercks, Leonardo Macelloni, Mary I. Scranton, Martina Pierdomenico, 2011. Hudson Canyon: Multi Species Habitat Complexes as a Geographic Priority. American Fisheries Society, 141st Annual Meeting. Seattle Washington, Sept. 4-8, 2011.

Simonetti, Antonello, James H. Knapp, Camelia C. Knapp, Leonardo Macelloni, Carol B. Lutken, 2011, Defining the hydrocarbon leakage zone and the possible accumulation model for marine gas hydrates in a salt tectonic driven cold seep: examples from Woolsey Mound, MC118, northern Gulf of Mexico, Proceedings of the 7th International Conference on Gas Hydrates (ICGH 2011), Edinburgh, Scotland, United Kingdom, July 17-21, 2011.

Lutken, Carol B., Leonardo Macelloni, Ken Sleeper, Marco D'Emidio, Tom McGee, Antonello Simonetti, James H. Knapp, Camelia C. Knapp, Simona Caruso, Jeff Chanton, Laura Lapham, Mariangela Lodi, Michela Ingrassia, Paul Higley, Charlotte Brunner, Rich Camilli, Brad Battista, Tim Short, Ryan Bell, Peer Fietzek, 2011, New discoveries at Woolsey Mound, MC118, northern Gulf of Mexico, Proceedings of the 7th International Conference on Gas Hydrates (ICGH 2011), Edinburgh, Scotland, United Kingdom, July 17-21, 2011.

Holmes, B., Lapham, L., Knapp, J. H., Knapp, C. C., Brunner, C. A., Macelloni, L., & Chanton, J. (2010). Correlation of Microbial Activity and Methane Sources with Shallow Faults in the Gulf of Mexico. In Proceedings from the 2010 AGU Ocean Sciences Meeting. American Geophysical Union, 2000 Florida Ave., N. W. Washington DC 20009 USA,

Sleeper, K., Bell, R., Short, T., Chanton, J., Wilson, R. D'Emidio, M., Macelloni, L. (2010), The Detection of Elevated Methane Concentration Indicate The Presence of Deep-Water Plumes

Northwest of the DWH Site, Abstract OS21G-05 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

Diercks, A.-R., V. L. Asper, M. Woolsey, J. L. Williams, F. Cantelas, R. Camilli, P. Rona, V. Guida, L. Macelloni (2010); NIUST AUVs – Expanding Possibilities” in: Proceedings of the OCEANS 2010 MTS/IEEE Seattle Conference & Exhibition, 978-1-4244-4333-8

Simonetti, Antonello, Leonardo Macelloni, James H. Knapp, Camelia C. Knapp, Carol B. Lutken, 2010, Multiple resolution seismic data integration as a tool for the shallow hydrocarbon plumbing system definition. Examples from Mississippi Canyon Block 118 carbonate-hydrate mound (Gulf of Mexico), Gordon Research Conference on Natural Gas Hydrates, Colby College, Waterville, Maine, June.

Macelloni, L., S. Caruso, L. Lapham, C. Lutken, C. Brunner, and A. Lowrie, 2010, Spatial distribution of seafloor biogeological and geochemical processes as proxy to evaluate fluid-flux regime and time evolution of a complex carbonate/hydrates mound, northern Gulf of Mexico: Gulf Coast Association of Geological Societies Transactions, v. 60, p. 461-480

Lutken, Carol B., Leonardo Macelloni, Laura Lapham, Simona Caruso, Mariangela Lodi, Richard Camilli, Vernon Asper, Arne Diercks, Camelia Knapp, Jim Knapp, 2010, Monitoring Seafloor Morpho-Geological Evolution of the MC118 Hydrate/Carbonate Mound via Multiple AUV Missions, AAPG 2010 Annual Convention Poster Presentation, Abstracts Volume, p.155.

Knapp, Camelia C., James H., Knapp, Adrian Addison, Leonardo Macelloni, Michael Waddell, 2010, Geophysical Baseline Characterization of Subsurface Gas Hydrates at MC-118, Gulf of Mexico, AAPG 2010 Annual Convention Poster Presentation, Abstracts Volume, p.134.

Knapp, James H., Camelia C. Knapp, Leonardo Macelloni, Antonello Simonetti, Carol Lutken, 2010, Subsurface Structure and Stratigraphy of a Transient, Fault-Controlled Thermogenic Hydrate System at MC-118, Gulf of Mexico AAPG 2010 Annual Convention Oral Presentation, Abstracts Volume, p.134.

Innman, A., Macelloni, L., Easson, G., and Woolsey, M., 2010, Incorporating Seafloor Data into GIS, IEEE OES South American International Symposium, Buenos Aires, Argentina, April 12-16, 2010.

McGee, T., C. Lutken, L. Macelloni, J. R. Woolsey, L. Lapham, R. Kleinberg, B. Battista, C. Knapp, S. Caruso, V. Goebel, R. Chapman, P. Gerstoft , 2009, A multidisciplinary sea-floor observatory in the northern Gulf of Mexico, Oceans 2009 in Biloxi, MS.

McGee, T.; J. R. Woolsey, L. Lapham, R. Kleinberg, L. Macelloni, B. L Battista, C. Knapp, S. Caruso, V. Goebel, R. Chapman, P. Gerstoft, 2009, A Multidisciplinary Sea-Floor Observatory in the Northern Gulf of Mexico. Proceedings of the Virtual Institute of Scientific Users of Deep-Sea Observatories, Tromsø, Norway, June 11-12.

P. Rona, V. Guida, M. Scranton, D. Gong, S. Haag, L. Macelloni, A. Simonetti, J. James, A. Diercks and V. Asper, 2009, Hudson Submarine Canyon Head Offshore New York and New Jersey: Active circular depressions, fans, ravines, methane discharge and water masses, Transaction of American Geophysical Union, 2009 Fall Meeting, San Francisco, 14-18 December 2009.

R. Camilli, L. Macelloni, V Asper, M. Woolsey, J. William, A. Dierks, K. Sleeper and C. Lutken, 2009, Discovery and Characterization of Cold Seep Vents Using a Mass Spectrometer Operating aboard an Autonomous Underwater Vehicle, Transaction of American Geophysical Union, 2009 Fall Meeting, San Francisco, 14-18 December 2009.

T.M. McGee, C.B. Lutken, L. Macelloni, L. Lapham, B. Battista, S. Caruso, V. Goebel, 2009, A Multidisciplinary Sea-Floor Observatory In Mc118, The Northern Gulf Of Mexico. Ocean 09 (090604-003)

McGee, T, J. R. Woolsey, L. Macelloni, B. Battista, S. Caruso, L. Lapham, V. Goebel and J. Carroll, 2008, Progress toward a sea-floor observatory at a carbonate/hydrate mound in the northern Gulf of Mexico, US/EU Baltic 2008 International Symposium Tallin, Estonia.

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