

1 August 2018

## **CURRICULUM VITAE**

### **Cindy M. Palinkas**

Horn Point Laboratory  
University of Maryland Center for Environmental Science  
P.O. Box 775  
Cambridge, MD 21613

*E-mail:* cpalinkas@hpl.umces.edu

*Phone:* 410-221-8487

*Fax:* 410-221-8490

### **Education:**

2005 Ph.D., University of Washington, Geological Oceanography

2002 M.S., University of Washington, Geological Oceanography

1999 B.A. (with honors), Johns Hopkins University, Earth and Planetary Science, Phi Beta Kappa

### **Professional Background:**

2013-present Associate Professor, Horn Point Laboratory, University of Maryland  
Center for Environmental Science

2005-2013 Assistant Professor, Horn Point Laboratory, University of Maryland  
Center for Environmental Science

1999-2005 Graduate Research Assistant, School of Oceanography, University of  
Washington

### **Research**

#### **A. Areas of Professional Expertise**

Formation and preservation of sedimentary strata in the geologic record; sediment deposition and accumulation in intertidal, fluvial, estuarine and continental-shelf environments; radioisotope geochronology; sediment-vegetation interactions

#### **B. Peer Reviewed Publications (\*=HPL graduate student)**

##### **1. Published papers**

**Palinkas, C.M.** and K.A.M. Engelhardt, in revision. Wind-driven influence of inundation and suspended-sediment concentrations on spatiotemporal patterns of sedimentation in a tidal freshwater marsh. *Limnology and Oceanography*.

Russ, E.\*, **C.M. Palinkas**, 2018. Seasonal- and decadal-scale sediment-vegetation interactions on the subaqueous Susquehanna River delta, upper Chesapeake Bay. *Estuaries and Coasts*. DOI: 10.1007/s12237-018-0413-8

**Palinkas, C.M.,** L.P. Sanford, E.W. Koch, 2018. Influence of shoreline stabilization structures on the nearshore sedimentary environment in mesohaline Chesapeake Bay. *Estuaries and Coasts* 41: 952-965. UMCES Contribution #5420.

**Palinkas, C.M.,** N. Barth\*, E.W. Koch, D. Shaffer, 2016. The influence of breakwaters on nearshore sedimentation patterns in Chesapeake Bay, USA. *Journal of Coastal Research* 320: 788-799. UMCES Contribution #4981.

**Palinkas, C.M.** and K.A.M. Engelhardt, 2016. Spatial and temporal patterns of modern (~100 y) sedimentation in a tidal freshwater marsh: implications for future sustainability. *Limnology and Oceanography* 61: 132-148. UMCES Contribution #5044.

Elmore, A.J., D. Cadol, **C.M. Palinkas,** K.A.M Engelhardt, 2015. Spatial patterns of plant litter in a tidal freshwater marsh and implications for marsh persistence. *Ecological Applications* DOI: 10.1890/14-1970.1.

**Palinkas, C.M.,** J.P. Halka, M. Li, L.P. Sanford, P. Cheng, 2014. Sediment deposition from tropical storms in the upper Chesapeake Bay: field observations and model simulations. *Continental Shelf Research* 86:6-16. UMCES contribution #4760.

**Palinkas, C.M.,** 2013. Seasonal and interannual patterns of sedimentation in the Corsica River (MD): evaluating the potential influence of watershed restoration. *Estuarine, Coastal, and Shelf Science* 127: 37-45. UMCES Contribution #4727.

**Palinkas, C.M.,** K. Engelhardt, D. Cadol, 2013. Evaluating physical and biological influences on sedimentation in a tidal freshwater marsh with <sup>7</sup>Be. *Estuarine, Coastal, and Shelf Science* 129: 152-161.

**Palinkas, C.M.,** E.W. Koch, 2012. Sediment accumulation rates and submersed aquatic vegetation (SAV) distributions in the mesohaline Chesapeake Bay, USA. *Estuaries and Coasts* 35: 1416-1431. UMCES Contribution #4634.

**Palinkas, C.M.,** J.C. Cornwell, 2012. A preliminary sediment budget for the Corsica River (MD): improved estimates of nitrogen burial and implications for restoration. *Estuaries and Coasts* 35: 546-558. UMCES Contribution #4550.

**Palinkas, C.M.,** E.W. Koch, N. Barth\*, 2010. Sedimentation adjacent to naturally eroding and breakwater-protected shorelines in Chesapeake Bay. *IOP Conference Proceedings: Earth and Environmental Science* 9: 012012. DOI: 10.1088/1755-1315/9/1/012012. UMCES Contribution #4388.

**Palinkas, C.M.,** A.S. Ogston, C.A. Nittrouer, 2010. Observations of event-scale sedimentary dynamics with an instrumented bottom boundary-layer tripod. *Marine Geology* 274: 151-164. UMCES Contribution #4371.

**Palinkas, C.M.**, 2009. The timing of floods and storms as a controlling mechanism for shelf deposit morphology. *Journal of Coastal Research* 25: 1122-1129. UMCES Contribution #4217.

**Palinkas, C.M.**, C.A. Nittrouer, 2007. Modern sediment accumulation on the Po shelf, Adriatic Sea. *Continental Shelf Research* 27: 489-505.

**Palinkas, C.M.**, C.A. Nittrouer, 2006. Cliniform sedimentation along the Apennine River shelf, Adriatic Sea. *Marine Geology* 234: 245-260.

**Palinkas, C.M.**, C.A. Nittrouer, J.P. Walsh, 2006. Inner-shelf sedimentation in the Gulf of Papua, New Guinea: a mud-rich shallow shelf setting. *Journal of Coastal Research* 22: 760-772.

**Palinkas, C.M.**, C.A. Nittrouer, R.A. Wheatcroft, L. Langone, 2005. The use of <sup>7</sup>Be to identify event and seasonal sedimentation near the Po River delta, Adriatic Sea. *Marine Geology* 222-223: 95-112.

Walsh, J.P., C.A. Nittrouer, **C.M. Palinkas**, A.S. Ogston, R.W. Sternberg, G.J. Brunskill, 2004. Cliniform mechanics in the Gulf of Papua, New Guinea. *Continental Shelf Research* 24: 2487-2510.

#### C. Reports and other products

**Palinkas, C.M.**, 2017. The impacts of conowingo particulates on the Chesapeake Bay. Final Report to Gomez and Sullivan and Exelon; broadly distributed to relevant management agencies (e.g., Maryland Department of Natural Resources, Chesapeake Bay Program).

**Palinkas, C.M.**, T. Fisher, D. Bunnell-Young, T. Rosen, L. Freedlander, 2017. Synthesis report of water quality research performed at Harleigh Farms.

**Palinkas, C.M.**, 2016. Comparative sediment analysis project. Final Report to Harleigh Farms.

Gurbisz, C., W. M. Kemp, R. Golden, **C. Palinkas**, 2016. Submersed aquatic vegetation and feedback processes: Implications for restoration and resilience. *in* B. Landry (ed.), Chesapeake Bay submersed aquatic vegetation habitat requirements and restoration goals: A third technical synthesis. US EPA, Chesapeake Bay Program, Annapolis, MD

Weller, D.E., C.J. Patrick, **C.M. Palinkas**, 2016. Effects of land use and shoreline armoring on submerged aquatic vegetation. *in* B. Landry (ed.), Chesapeake Bay submersed aquatic vegetation habitat requirements and restoration goals: A third technical synthesis. US EPA, Chesapeake Bay Program, Annapolis, MD

**Palinkas, C.M.**, 2014. Ethics in Publishing. Part of “Teaching Geoethics Across the Geoscience Curriculum” resource collection by On the Cutting Edge (SERC, Carleton College). Reviewed by NAGT's On the Cutting Edge program and received a rating of Exemplary.

<https://serc.carleton.edu/geoethics/activities/83491.html>

**Palinkas, C.M.**, 2013. Analysis of cores from Deep Creek Lake. Final Report to Maryland Department of Natural Resources Maryland Geological Survey.

**Palinkas, C.M.**, 2012. Sedimentation following Tropical Storm Lee. Final Report to Maryland Department of Natural Resources Maryland Geological Survey.

Kellogg, M.L., **C.M. Palinkas**, 2010. Influence of oyster reef restoration on sediment deposition. Final report to Oyster Recovery Partnership.

**Palinkas C.M.**, E.W. Koch, 2009. SAV and its substrate: spatial, temporal, and historical trends. Final Report to NOAA Chesapeake Bay Office.

Wetzel, L.R., K. Bemis, **C. Palinkas**, J. McDaris, 2009. What kind of continental margin am I: active or passive? NSF MARGINS Mini-lesson.  
<http://serc.carleton.edu/margins/minilessons/32959.html>.

Boynton, W.R., J.M. Testa, W.M. Kemp, J. Cornwell, **C.M. Palinkas**, M.T. Brooks, M. Owens, E.M. Bailey. 2009. An ecological assessment of the Corsica River estuary and watershed: scientific advice for future water quality management. UMCES Technical Report Series TS-587-09-CBL.

Cornwell, J.C., **C. Palinkas**, M. Owens, 2008. Nutrient Balance in Corsica River Sediments: Improved Estimates of Nutrient Burial and Denitrification. Chapter 6 *in* E.M. Bailey, M.A.C. Ceballos, and W.R. Boynton (Eds.), Maryland Chesapeake Bay Water Quality Monitoring Program Ecosystem Processes Component: Level One Report No. 25 Interpretive Report. Maryland Department of Natural Resources. UMCES Technical Report TS-565-08.

Cornwell, J.C., M. Owens, **C. Palinkas**, 2007. Denitrification and nutrient balance in Corsica River sediments, Maryland. Chapter 5 *in* W.R. Boynton, J.C. Cornwell, W.M. Kemp, C. Palinkas, et al., Targeted Watershed Measurement Program and Key Process Evaluation Year 1: Corsica River Estuary Data Report. Maryland Department of Natural Resources. UMCES Technical Report TS-531-07-CBL.

D. Selected workshop attendance:

STAC Workshop (invited): Aligning CBP Monitoring Efforts to Support Climate Change Analyses and Adaptive Management" - Submerged Aquatic Vegetation. April 2017.

STAC Workshop (invited): Conowingo Infill Influence on Chesapeake Water Quality, January 2016.  
 NAGT and On the Cutting Edge: Teaching Geoethics Across the Curriculum, June 2014.  
 IAN Climate Change Resilience Indicators (invited), January 2014.  
 Chesapeake Modeling Symposium, May 2012.  
 USGS 2011 Storm Effects Meeting, April 2012.  
 IAN Assateague Island National Seashore and Climate Change Synthesis Workshop (invited), March 2011  
 PAGES Young Scientist Meeting, July 2009  
 NSF MARGINS Mini-Lesson Education Workshop, June 2009.  
 IAN Science Communication Course, April 2008  
 NSF MARGINS Education Workshop, Bringing Source-to-Sink Discoveries to the Classroom, March 2008.  
 MD-DNR Corsica River Data Analysis Workshop, April 2007.  
 ICES/PICES Early Career Scientist Conference, June 2007.  
 STAC Workshop: An Introduction to Sedimentsheds: Sediment and Its Relationship to Chesapeake Bay Water Clarity (invited), January 2007.  
 NSF MARGINS Teleconnections Between Source and Sink in Sediment Dispersal Systems Theoretical and Experimental Institute, September 2006.  
 On the Cutting Edge Early Career Faculty Workshop: Teaching, Research, and Managing Your Career, June 2006.

E. Active Memberships in Professional Societies

American Geophysical Union  
 Geological Society of America  
 Coastal and Estuarine Research Federation  
 Association of Women Geoscientists

**Teaching**

Member, UMCES Graduate Faculty  
 Member, MEES Faculty and USM Inter-Institutional Graduate Faculty

University System of Maryland Courses Taught:

MEES 698G: Marine Geology (3 credits; sole instructor), Fall 2006, 2008, 2010  
 MEES 698G: Sediment Dynamics in Coastal and Estuarine Environments (3 credits; sole instructor), Fall 2014, 2017 (as independent study)  
 MEES 609R: Global Environmental Remote Sensing Seminar (2 credits; lead instructor), Spring 2008  
 MEES 608J: Thesis Proposal Writing (2 credits, lead instructor), Spring 2010  
 MEES 608A: Topics in Boundary Layers and Sediment Transport (1 credit, co-instructor), Spring 2013  
 MEES 708F: Ethical Aspects of Environmental Science Seminar (1 credit; sole instructor), Fall 2015, Spring 2018

MEES 640: Interconnected Earth Systems: Land, Ocean, and Estuary (4 credits;  
co-instructor), Fall 2017  
MEES 708V: River-Estuary Transitions in the Anthropocene (1 credit; co-  
instructor), Spring 2017