

MARK PIPER

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PROFESSIONAL PREPARATION

<i>University of Wisconsin, Madison, WI</i> <i>B.S., Mathematics</i>	<i>1988–1992</i>
<i>Pennsylvania State University, University Park, PA</i> <i>M.S., Meteorology</i>	<i>1992–1994</i>
<i>University of Colorado, Boulder, CO</i> <i>Ph.D., Astrophysical, Planetary, and Atmospheric Sciences</i>	<i>1995–2001</i>

APPOINTMENTS

<i>INSTAAR / CSDMS, University of Colorado, Boulder, CO</i> <i>Research Associate / Software Engineer</i>	<i>2013–present</i>
<i>Exelis Visual Information Solutions (formerly Research Systems, Inc.), Boulder, CO</i> <i>IDL Product Manager</i>	<i>2012–2013</i>
<i>Exelis Visual Information Solutions, Boulder, CO</i> <i>Solutions Engineer</i>	<i>2010–2012</i>
<i>Exelis Visual Information Solutions, Boulder, CO</i> <i>Instructor / Consulting Engineer</i>	<i>1999–2010</i>

PRODUCTS

- [1] M. Piper, *CSDMS Web Modeling Tool Client (Version 1.0)*. CSDMS, Boulder, Colorado, 2015. [Computer software]. <https://github.com/csdms/wmt-client>.
- [2] M. Piper, *CSDMS Dakota Interface (Version 0.1)*. CSDMS, Boulder, Colorado, 2015. [Computer software]. <https://github.com/csdms/dakota>.
- [3] M. Piper, *CSDMS BMI Java Bindings (Version 0.1)*. CSDMS, Boulder, Colorado, 2015. [Computer software]. <https://github.com/csdms/bmi-java>.
- [4] E. Hutton and M. Piper, *CSDMS BMI Python Bindings (Version 0.1)*. CSDMS, Boulder, Colorado, 2015. [Computer software]. <https://github.com/csdms/bmi-python>.
- [5] J.P. Syvitski, E. Hutton, M. Piper, I. Overeem, A. Kettner, and S. Peckham, 2014. *Plug and Play Component Modeling—The CSDMS2.0 Approach*. In: Ames, D.P., Quinn, N.W.T., Rizzoli, A.E. (Eds.), Proceedings of the 7th International Congress on Environmental Modelling and Software, June 15-19, San Diego, California, USA. ISBN: 978-88-9035-744-2.

OTHER PRODUCTS

- [1] M. Piper and T. Bahr, 2015. *A Rapid Cloud Mask Algorithm for Suomi NPP VIIRS Imagery EDRs*, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., **XL-7/W3**, 237-242, doi:10.5194/isprsarchives-XL-7-W3-237-2015.
- [2] M. Piper, 2012. *Working with Suomi NPP VIIRS data in ENVI and IDL*, The Earth Observer, **24**, 22-23.
- [3] M. Piper, B. Justice, A. Borsholm and A.T. Harris, 2011. *Use of Open Geospatial Consortium (OGC) Standards to Disseminate and Access Scientific Data*, In: AGU Fall Meeting Abstracts, **1**, 1393.
- [4] M. Piper, 2010. **Introduction to IDL**, Exelis Visual Information Solutions, Boulder, Colorado, 174 pp. [Course manual].
- [5] M. Piper and J.K. Lundquist, 2004. *Surface-layer turbulence measurements during a frontal passage*, J. Atmos. Sci., **61**, 1768-1780.

SYNERGISTIC ACTIVITIES

- [1] M. Piper and E. Hutton, *WMT and the Dakota iterative systems analysis toolkit*. Two-hour short-course. CSDMS Annual Meeting, Boulder, CO, 2015.
- [2] Reviewer for *Computers & Geosciences*, 2015.
- [3] M. Piper, *ATOC IDL Seminar*. Three-hour short-course. Department of Atmospheric and Oceanic Sciences, University of Colorado Boulder, 2015. <http://mdpiper.github.io/ATOC-IDL-seminar>
- [4] Program committee member for the HDF and HDF-EOS Workshop XVI, 2013.
- [5] Product Management Certification, Pragmatic Marketing, 2012.

COLLABORATORS AND OTHER AFFILIATIONS

Collaborators (17):

- o Bahr, Thomas, Exelis Visual Information Solutions, GmbH
- o Brown, Jed, University of Colorado
- o Jafarov, Elchin, University of Colorado
- o Hill, Mary, University of Kansas
- o Hutton, Eric, University of Colorado
- o Kelbert, Anna, USGS
- o Kettner, Albert, University of Colorado
- o Norris, Boyana, University of Oregon
- o Overeem, Irina, University of Colorado
- o Peckham, Scott, University of Colorado
- o Perignon, Mariela, University of Colorado
- o Schaefer, Kevin, NSIDC
- o Schwalm, Christopher, WHOI
- o Syvitski, James P., University of Colorado
- o Wallis, Jillian, University of Southern California
- o Yarmey, Lynn, NSIDC
- o Zissimopoulos, Julie, University of Southern California

Graduate Advisors (5):

- o Gamage, Nimal, CA Technologies
- o Julien, Keith, University of Colorado
- o Kosović, Branko, National Center for Atmospheric Research
- o Lenschow, Donald, National Center for Atmospheric Research
- o Weiss, Jeffrey, University of Colorado

Doctoral Advisor:

- o Blumen, William, University of Colorado