

Title: Research Scientist II at Community Surface Dynamics Modeling System (CSDMS), Institute of Arctic and Alpine Research (INSTAAR), University of Colorado.
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Research interests

My current research focuses on modeling sediment flux responses within river basins to human impact and climate change on a global scale. This includes developing methodology to simulate sediment properties based on provenance. I'm also interested in influences of rapid climate change (deglaciation) during the late Quaternary on sediment fluxes to the ocean.

Education

2003 – 2007 PhD., “Numerical modeling of fluvial sediment supply to marine basins”, pp. 196. Department of Civil Engineering and Applied Geosciences, Delft University of Technology, The Netherlands.
1990 – 1997 MSc., “Simulated man-induced erosion in the Middle Mountains of Nepal”. Wageningen University, the Netherlands. Specialism: Tropical Forestry and GIS.
1982 – 1990 Pre-university education in: Dutch, English, Mathematics, Physics, Chemistry & Biology.

Professional experience

2014 – 2015 Acting Associate director INSTAAR
2011 – Co-Director of the Dartmouth Flood Observatory (<http://floodobservatory.colorado.edu/>) located at INSTAAR.
2007 – Research Scientist at INSTAAR, University of Colorado - Community Surface Dynamics Modeling System (CSDMS). Activities:

- CSDMS activities:
 - Webmaster of the interactive CSDMS content management system (<http://csdms.colorado.edu>)
 - Responsible for the various CSDMS repositories that hold models, data and educational material.
 - Contact person for chairs Terrestrial Working Group and Carbonate Focus research group

2006 – 2007 Junior researcher, Delft University of Technology, The Netherlands.
2002 – 2005 Professional Scientist II at the University of Colorado – INSTAAR

- Developing climate-driven hydrological transport model, HydroTrend
- Case studies of simulating water discharge and sediment supply of rivers to the ocean under the influence of climate change and human impact.
- Fieldwork in Baffin fjord, Apennine Rivers and Waipaoa River System.

1998 – 2001 Senior consultant GIS & head of GIS cluster, at the Ministry of Transport, Public Works and Water Management, Directorate-General of Public Works and Water Management Noord-Holland (NH) Directorate, Haarlem - The Netherlands (managing \$400K/year).

Extracurricular activities

2011 – Serve on the INSTAAR Executive Committee.
2014 – Guest Editor special issue “Uncertainty and Sensitivity in Surface Dynamics Modeling”, Computers & Geosciences.
2011 – 2013 Guest Editor special issue “Modeling for Environmental Change”, Computers & Geosciences.
2010 – 2011 INSTAAR noon seminar series organizer.
2009 Interviewed by the El Pais, Spanish biggest newspaper. Article was regarding climate change and sea level rising.

- 2007 – 2008 Author and participant in outreach effort *BetaCanon* “What everybody needs to know about natural sciences”. Published as a series of 50 interactive columns of the major Dutch newspaper *Volkskrant* and as a volume of collected essays for K12 education and outreach.
- 2005 Interview and column for Dutch newspaper NRC on ‘Impact of Humans on the Flux of Terrestrial Sediment to the Global Coastal Ocean’ (Science publication).
- 2000 Course on Coaching and Practical Management skills (15 days).
- 1999 Course on Project management (10 days).

Graduate student advising

- 2015 – R. Escobar C. PhD. EAFIT university, Medellín Colombia
- 2011 – 2012 M. Vanmaercke PhD. Catholic University Leuven, Belgium
- 2010 – 2015 F. Xing PhD. University of Colorado, Boulder, CO
- 2008 – 2011 M.T. Hannon M.Sc. University of Colorado, Boulder, CO
- 2006 – 2010 K. McCarney PhD. University of South Carolina, SC

Graduate student committee member

- 2016 S.M. Carter M.Sc. University of Alabama, Alabama
- 2016 F. Minikowski Achete PhD. Delft University of Technology, the Netherlands
- 2015 F. Xing PhD. University of Colorado, CO
- 2011 M.T. Hannon M.S.c University of Colorado, CO
- 2007 A.W. Bron M.Sc. Delft University of Technology, the Netherlands

Active professional memberships

AGU: American Geophysical Union
CSDMS: Terrestrial Working group
CSDMS: Hydrology Focus Research Group

Teaching

- 2003 – Short courses in applying hydrological sediment transport model for numerous CSDMS visiting scientists.
- 1993 – 1994 Head teaching assistant of a group of 40 international forestry students. Aim of the project was to disentangle Dutch agricultural and nature conservation policies.

Journal reviewer (over the last five years)

Nature Geoscience; Natural Hazards; Estuarine, Coastal and Shelf Science; Environmental management; Basin Research; The Journal of Geology; AJAR; Earth Surface Processes and Landforms; Marine Geology; International Association of Sedimentologists; Quaternary International; Sedimentary Geology; Hydrological Processes; JGR Earth Surface; Water Resources Management; Quaternary Science Reviews; AREA; Science of the Total Environment; Journal of Sedimentary Research.

Research funded

- 2013 – 2015 GeoSUR. Customization of Dartmouth Flood Observatory Data Products for GeoSUR. PIs Brakenridge, G.R., Kettner, A.J. Award: \$173,861
- 2013 – 2014 NSF – Earthcube. Collaborative Research: An EarthCube Domain Workshop integrating the inland-waters biogeochemistry and fluvial sedimentology communities. PIs: Kettner, A.J., Mayorga, E. Award: \$88,622
- 2012 – 2013 NASA/Earth Science Applications: Disasters. PIs: Brakenridge, R., Kettner, A., Hopson, T., Nghiem, S., Policelli, F., Verdin, J., Verdin, K., Labande, E., Hirpa, F. Near Real Time Flood Inundation Prediction and Mapping For the World Food Programme. Award: \$ 146,366

- 2011 – 2013 NASA – Frontiers in Earth System Dynamics. PIs: Brakenridge, R., Kettner, A., Hong, Y., Policelli, F., Jasinski, M., Adler, R. Measurement, Modeling and Prediction of Global River Discharge Using NASA Sensors. Award: \$ 738,550
- 2011 – 2012 ConocoPhillips: Quantitative Modeling of Floodplain Architecture, Overeem, I., Kettner, A.J., and Syvitski, J.P.M., \$101,925
- 2010 – 2012 NSF Collaborative Research: Investigating Human and Climate Influences on Delta Evolution Using Fluvial Discharge and Coastal Evolution Models, Ashton, A., Kettner, A.J., and Giosan, L., \$372,208
- 2009 – 2010 ConocoPhillips: Exploring Predictive Relationships of Floodplain Architecture, Overeem, I., Kettner, A.J., and Syvitski, J.P.M., \$49,500
- 2008 – 2009 ConocoPhillips: Floodplain Architecture: A global analysis, Syvitski, J.P.M., Overeem, I., and Kettner, A.J., \$49,500

Special skills

Computer knowledge: Windows, UNIX, Mac, Microsoft Office, Matlab, Autocad and CORELL, Adobe Illustrator/Photoshop, Mediawiki. GIS programs: ArcInfo, ArcGIS, MapInfo, ArcGIS server, GeoServer, ArcPAD and IDRISI. Programming languages: Python, C, IDL, HTML, PHP, MySQL and CSS.

Languages

Dutch: Mother tongue

English: Reading, writing and speaking excellent.

Other interests

Engineers Without Borders Volunteer work, Reading, travelling and sports like speed skating, skiing, climbing, biking, yoga and hiking.

Publication statistics

Peer-reviewed papers	53
Reports	3
Book chapters	2
Published conference abstracts	140

Peer-reviewed papers

* = Student first authored paper

2016 (8)

In progress (4)

- Nienhuis, J.H., Ashton, A.D., Kettner, A.J., and Giosan, L., *In progress*. Using models to constrain the late Holocene evolution of the Ebro Delta.
- Brakenridge, G. R. Higgins, S.A., Syvitski, J.P.M., Kettner, A.J., Overeem, I., Adler, R., Prades, L., Niebuhr, E., and Green, D. S., *In progress*. Risk and Avoidance of Future Catastrophic Flooding, Myanmar.
- * Xing, F., Syvitski, J.P.M., Kettner, A.J., Meselhe, E.A., Atkinson, J.H., and Khadka, A., *In progress*. Morphodynamic Impacts of Hurricanes on the Wax Lake Delta, Louisiana.
- Chen, Y., Overeem, I., Gao, S., Syvitski, J.P.M., and Kettner, A.J., *In progress*. A sediment budget for the lower Yellow River during the years 1580–1849.

Submitted/accepted/in press (5)

- Escobar C., R., Restrepo, J.D., Brakenridge, G.R., and Kettner, A.J., *submitted*. Satellite-based Estimation of Water Discharge and Runoff in the Magdalena River, Northern Andes of Colombia. In Remote Sensing of Hydrological Extremes.

- Kettner, A.J., Cohen, S., Overeem, I., Balazs, F., Brakenridge, G.R., and Syvitski, J.P.M., *submitted*. Increases in flood frequency by the 21st century: A global modeling assessment. AGU books.
 - Van Dijk, A.I.J.M., Brakenridge, G.R., Kettner, A.J., Beck, H.E., and de Groeve, T., *accepted*. Space-based river gauging at the global scale. WRR.
 - Syvitski, J.P., Kettner, A.J., Overeem, I., Brakenridge, G.R., and Cohen, S., *submitted*. Latitudinal Controls on Siliciclastic Sediment Production and Transport. *SEPM special issue*.
 - Overeem, I., Briner, J.P., Kettner, A.J., and Syvitski, J.P.M., *Submitted*. Valley filling during deglaciation: a case-study of Clyde fjordhead, Baffin Island, Arctic Canada. *SEPM special issue*.
- 2016 (1)**
- Kettner, A.J., and Syvitski, J.P.M., 2016. Uncertainty and Sensitivity in Surface Dynamics Modeling. *Computers & Geosciences*. DOI: <http://dx.doi.org/10.1016/j.cageo.2016.03.003>
- 2015 (5)**
- Gao, J.H., Jia, J., Kettner, A.J., Xing, F., Wang, Y.P., Li, J., Bai, F., Zou, X., and Gao, S., 2015. Reservoir-induced changes to fluvial fluxes and their downstream impacts on sedimentary processes: The Changjiang (Yangtze) River, China. *Quaternary International*, DOI: <http://dx.doi.org/10.1016/j.quaint.2015.03.015>
 - Xu X.N., Gao J., Jia J., Kettner A.J., Xing F., Wang Y., Qi S., Liao F., 2015. The Quantitative Estimation of Sediment Load changes entering Poyang Lake Basin induced by Climate Change and Anthropogenic Impacts. *Geographical Research*, **34**(5), 838-850. DOI: 10.11821/dlyj201505004. (IN CHINESE). Original title: 气候变化和人类活动对鄱阳湖流域入湖输沙量影响的定量估算
 - Restrepo, J.D., Kettner, A.J., and Syvitski, J.P.M., 2015. Recent deforestation causes rapid increase in river sediment load in the Colombian Andes. *Anthropocene*. doi: 10.1016/j.ancene.2015.09.001
 - Gao, J.H., Xu, X.N., Jia, J., Kettner, A.J., Xing, F., Wang, Y.P., Yang, Y., Qi, S., Liao, F., Li, J., Bai, F., Zou, X., and Gao, S., 2015. A numerical investigation of freshwater and sediment discharge variations of Poyang Lake catchment, China over the last 1000 years. *The Holocene*, 25(9), 1470-1482. Doi: 10.1177/0959683615585843
 - Chen, Y., Overeem, I., Kettner, A.J., Gao, S., and Syvitski, J.P.M., 2015. Modeling Flood Dynamics along the superelevated Channel belt of the Yellow River over the Last 3,000 years. *Journal of Geophysical Research*, 120, 1321-1351. Doi: 10.1002/2015JF003556
- 2014 (6)**
- Syvitski, J.P.M., Cohen, S., Kettner, A.J., and Brakenridge, G.R., 2014. How important and Different are Tropical Rivers? – An overview. *Geomorphology*, **227**, 5-17. DOI: 10.1016/j.geomorph.2014.02.029
 - Cohen, S., Kettner, A.J., and Syvitski, J.P.M., 2014. Global Suspended Sediment and Water Discharge Dynamics Between 1960-2010: Continental trends and intra-basin sensitivity. *Global and Planetary Change*, **115**, 44-58. DOI: 10.1016/j.gloplacha.2014.01.011
 - Gao, J.H., Jia, J., Kettner, A.J., Xing, F., Wang, Y.P., Xu, X.-N., Yang, Y., Zou, X.Q., Gao, S., Qi, S., and Liao, F., 2014. Changes in water and sediment exchange between the Changjiang River and Poyang Lake under natural and anthropogenic conditions, China. *Science of the Total Environment*, **481**, 542-553. DOI: 10.1016/j.scitotenv.2014.02.087
 - Syvitski, J.P.M., Kettner, A.J., Overeem, I., Giosan, L., Brakenridge, G.R., Hannon, M., and Bilham, R., 2014. Anthropocene metamorphosis of the Indus Delta and lower floodplain. *Anthropocene*, **3**, 24-35.
 - Vanmaercke, M., Kettner, A.J., van den Eeckhaut, M., Poesen, J., Govers, G., Mamaliga, A., Verstraeten, G., Radoane, M., and Syvitski, J.P.M., 2014. Moderate seismic activity affects contemporary sediment yields. *Progress in Physical Geography*. DOI: 10.1177/0309133313516160
 - * Xing, F., Kettner, A.J., Ashton, A., Giosan, L., Ibanez, C., and Kaplan, J.O., 2014. Fluvial response to climate variations and anthropogenic perturbations for the Ebro River, Spain in the last 4000 years. *Science of The Total Environment*, **473-474**, 20-31. DOI: 10.1016/j.scitotenv.2013.11.083.
- 2013 (3)**
- Kettner, A.J., and Syvitski, J.P.M., 2013. Modeling for environmental change, *Computers & Geosciences*, DOI: 10.1016/j.cageo.2012.07.028.

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- Upton, P., Kettner, A.J., Gomez, B., Orpin, A.R., Litchfield, N., and Page, M.J., 2013. Simulating post-LGM riverine fluxes to the coastal zone: The Waipaoa catchment, New Zealand. *Computers & Geosciences*, DOI: 10.1016/j.cageo.2012.02.001.
 - Ashton, A.D., Hutton, E.W.H., Kettner, A.J., Xing, F., Kallumadikal, J., Neinhuis, J., and Giosan, L., 2013. Progress in Coupling Coastline and Fluvial Dynamics. *Computers and Geosciences*, 10.1016/j.cageo.2012.04.004.
- 2012 (5)
- Brakenridge, G.R., Syvitski, J.P.M., Overeem, I., Higgins, S.A., Kettner, A.J., Stewart-Moore, J.A., and Westerhoff, R., 2012. Global Mapping of Storm Surges and the Assessment of Coastal Vulnerability. *Natural Hazards*, DOI 10.1007/s11069-012-0317-z
 - Brakenridge, G.R., S. Cohen, A.J. Kettner, T. De Groeve, S. V. Nghiem, J.P.M. Syvitski, and B.M. Fekete (2012), Calibration of satellite measurements of river discharge using a global hydrology model. *Journal of Hydrology*, **475**, 123-136. DOI: 10.1016/j.jhydrol.2012.09.035
 - Giosan, L., Coolen, M.J.L., Kaplan, J.O., Constantinescu, S., Filip, F., Filipova-Marinova, M., Kettner, A.J., and Thom, N., 2012. Early Anthropogenic Transformation of the Danube-Black Sea System. *Scientific reports* **2**: 582, DOI: 10.1038/srep00582
 - Chen, Y., Syvitski, J.P.M., Gao, S., Overeem, I., and Kettner, A.J., 2012. Socio-economic Impacts on Flooding: a 4000 year History of the Yellow River, China. *AMBIO*, DOI: 10.1007/s13280-012-0290-5
 - Restrepo, J.D., and Kettner, A.J., 2012. Human induced discharge diversion in a tropical delta and its environmental implications: the Patía River, Colombia. *Journal of Hydrology*, **424-425**, 124-142.
- 2011 (5)
- Chen, Y., Overeem, I., Syvitski, J.P.M., Gao, S., and Kettner, A.J., 2011. Controls of levee breaches on the Lower Yellow River during the years 1550-1855. *RCEM Publ.* 617-633.
 - Cohen, S., Kettner, A.J., Syvitski, J.P.M., and Fekete, B.M., 2011. WBMsed: a distributed global-scale daily riverine sediment flux model: model description and validation. *Computers and Geosciences*. Doi:10.1016/j.cageo.2011.08.011
 - Maselli, V., Hutton, E.W., Kettner, A.J., Syvitski, J.P.M., and Trincardi, F. 2011. High-frequency sea level and sediment supply fluctuations during Termination I: an integrated sequence-stratigraphy and modeling approach from the Adriatic Sea (Central Mediterranean). *Marine Geology*, **287**, 54-70. Doi:10.1016/j.margeo.2011.06.012
 - McCarney-Castle, K., Voulgaris, G., Kettner, A.J., and Giosan, L., 2011. Simulating fluvial fluxes in the Danube watershed: The Little Ice Age versus modern day. *The Holocene*, **22**, 91-105. doi: 10.1177/0959683611409778
 - Syvitski, J.P.M., and Kettner, A.J., 2011. Sediment Flux and the Anthropocene. *Philosophical transactions of the Royal Society*, **369**, 957-975, doi: 10.1098/rsta.2010.0329.
- 2010 (2)
- Kettner, A.J. Restrepo, J.D., and Syvitski, J.P.M., 2010. A Spatial Simulation Experiment to Replicate Fluvial Sediment Fluxes within the Magdalena River, Colombia. *The Journal of Geology*, **118**, 363-379, doi:10.1086/652659.
 - McCarney-Castle, K., Voulgaris, G., and Kettner, A.J., 2010. Analysis of fluvial suspended sediment load contribution through Anthropocene history to the South Atlantic Bight coastal zone, U.S.A. *The Journal of Geology*, **118**, 399-416, doi:10.1086/652658.
- 2009 (4)
- Gomez, B., Yantao C., Kettner, A.J., Peacock, D.H., and Syvitski, J.P.M., 2009. Simulating changes to the sediment transport regime of the Waipaoa River for the twenty-first century. *Global and Planetary Change*, doi:10.1016/j.gloplacha.2009.02.002.
 - Kettner, A.J., Gomez, B., Hutton, E.W.H., and Syvitski, J.P.M., 2009. Late Holocene dispersal and accumulation of terrigenous sediment on Poverty Shelf, New Zealand. *Basin Research*, **21**, doi:10.1111/j.1365-2117.2008.00376.x

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- Kettner, A.J., and Syvitski, J.P.M., 2009. Fluvial responses to perturbations in the Northern Mediterranean since the Last Glacial Maximum. *Quaternary Science Reviews*, doi:10.1016/j.quascirev.2009.05.003.
 - Syvitski, J.P.M., Kettner, A.J., Overeem, I., Hutton, E.W.H., Hannon, M.T., Brakenridge, G.R., Day, J., V r smarty, C., Saito, Y., Giosan, L., and Nicholls R.J., 2009. Sinking Deltas due to Human Activities. *Nature Geoscience*, Vol 2, 681 - 686. doi: 10.1038/ngeo629.
- 2008 (4)**
- Kettner, A.J., Gomez, B., and Syvitski, J.P.M., 2008. Human catalysts or climate change: which will have a greater impact on the sediment load of the Waipaoa River in the 21st century? *IAHS Publ.* **325**, 425-431.
 - Kettner, A.J., and Syvitski, J.P.M., 2008. HydroTrend version 3.0: a Climate-Driven Hydrological Transport Model that Simulates Discharge and Sediment Load leaving a River System. *Computers & Geosciences*, Vol. **34**, 1170-1183.
 - Kettner, A.J., and Syvitski, J.P.M., 2008. Predicting discharge and sediment flux of the Po River, Italy since the Last Glacial Maximum, in de Boer, P.L., et al., eds., *Analogue and numerical forward modelling of sedimentary systems; from understanding to prediction*, International Association of Sedimentologists, special publication, **40**, 171-190.
 - Syvitski, J.P.M., and Kettner, A.J., 2008. Scaling Sediment Flux across Landscapes. *Sediment Dynamics in Changing Environments. IAHS Publ.* **325**, 149-156.
- 2007 (4)**
- Kettner, A.J., Gomez, B., and Syvitski, J.P.M., 2007. Modeling suspended sediment discharge from the Waipaoa River system, New Zealand: the last 3000 years. *Water Resources Research*, **43**, W07411 doi:10.1029/2006WR005570.
 - Perillo, G.M.E., Syvistki, J.P.M., Amos, C.L., Depetris, P., Milliman, J., Pejrup, M., Saito, Y., Snoussi, M., Wolanski, E., Zajaczkowski M., Stallard, R., Hutton, E., Kettner, A.J., Meade, R., Overeem I., and Peckham, S., 2007. Estuaries and the Sediments: How they Deal with Each Other. *INPRINT*, **2007-3**, 3-5.
 - Pratson, L.F., Hutton, E.W.H., Kettner, A.J., and Syvitski, J.P.M., 2007. The impact of floods and storms on the acoustic reflectivity of the inner continental shelf: A modeling assessment. *Continental Shelf Research*, **27**, 542-559.
 - Syvitski, J.P.M., and Kettner, A.J., 2007. On the flux of water and sediment into the Northern Adriatic Sea. *Continental Shelf Research*, **27**, 296-308.
- 2006 (1)**
- Kubo, Y., Syvitski, J.P.M., Hutton, E.W.H., Kettner, A.J., 2006. Inverse modeling of post Last Glacial Maximum transgressive sedimentation using 2D-Sedflux: Application to the northern Adriatic Sea. *Marine Geology*, **234**, 233-243.
- 2005 (4)**
- Overeem, I., Syvitski, J.P.M., Hutton, E.W.H., and Kettner, A.J., 2005. Stratigraphic variability due to uncertainty in model boundary conditions: A case-study of the New Jersey Shelf over the last 40,000 years. *Marine Geology*, **224**, 23-41.
 - Syvitski, J.P.M., Kettner, A.J., Correggiari, A., and Nelson, B.W., 2005. Distributary Channels and their Impact on Sediment Dispersal. *Marine Geology*, **222-223**, 75-94.
 - Syvitski, J.P.M., Kettner, A.J., Peckham, S.D., and Kao, S-J., 2005. Predicting the Flux of Sediment to the Coastal Zone: Application to the Lanyang watershed, northern Taiwan. *Journal of Coastal Research*, **21(3)**, 580-587.
 - Syvitski, J.P.M., V r smarty, C.J., Kettner, A.J., and Green, P.A., 2005. Impact of Humans on the Flux of Terrestrial Sediment to the Global Coastal Ocean. *Science*, **308** (5720), 376-380.
- 2004 (1)**
- Pratson, L.F., Swenson, J., Kettner, A.J., Fedele, J.J., Postma, G., Niedoroda, A.W., Friedrichs, C.T., Syvitski, J.P.M., Paola, C., Steckler, M.S., and Hutton, E.W.H., 2004. Modeling Continental Shelf Formation in the Adriatic Sea and Elsewhere. *Oceanography*, **17(4)**, 118-131.

Reports

- Overeem, I., and Syvitski, J.P.M., 2009. Contributing Authors: Robert G. Brakenridge, John W. Day Jr., Liviu Giosan, Mark T. Hannon, Philip R. Hill, W. Gregory Hood, Ilan Kelman, Albert J. Kettner, Hartwig H. Kremer, Robert Nicholls, Chris Paola, Juan D. Restrepo, Yoshiki Saito, Alex de Sherbinin, Charles Simenstad, Charles J. Vörösmarty, Juergen Weichselgartner. Dynamics and Vulnerability of Delta Systems. LOICZ Reports and Studies No. 35.
- Gomez, B., and Kettner, A.J., 2007. Impact of 21st Century Climate Change on the Suspended Sediment Discharge of the Waipaoa River at Matawhere. *Report to Gisborne District Council*, 16pp.
- Kettner, A.J., and Syvitski, J.P.M., 2005. Numerical River Simulations to Assess the Possibility of Occurrence of Hyperpycnal plumes in the Hopa North Prospect Area. *Report to URS, environmental division*, 18pp.

Book chapters

- Overeem, I., Kettner, A.J., and Syvitski, J.P.M., 2013. Impacts of Humans on River Fluxes and Morphology, In: Editor-in-Chief: John F. Shroder, *Treatise on Geomorphology*, Volume 9: Fluvial Geomorphology, Academic Press, San Diego, Pages 828-842, ISBN 9780080885223, DOI: 10.1016/B978-0-12-374739-6.00267-0.
- Oceaanstromingen: Bewegende Zeeën matigen het weer, in *De Betacanon: Wat iedereen moet weten van de natuurwetenschappen*. ISBN 978 90 290 8055 2 / NUR 910. Chapter **36** (160-163).

Conference Abstracts*2016 (8)*

- Brakenridge, G.R., and Kettner, A.J., 29-1 June, 2016. Daily Prediction of Flood Inundation from Microwave Remote Sensing. Global Flood Partnership conference, Ispra, Italy.
- Kettner, A.J., Cohen, S., Overeem, I., Fekete, B., Brakenridge, G.R., and Syvitski, J.P.M., 17-19 May, 2016. The impact of climate change on riverine flooding, Joint CSDMS – SEN annual meeting, Boulder, CO, USA.
- Brakenridge, G.R., Kettner, A.J., Schumann, G., Andreadis, K., Erickson, T., and Bates, P., 14-16 June, 2016. Global Flood Risk from Advanced Modeling and Remote Sensing in Collaboration with Google Earth Engine. NASA Earth Science Technology Forum, Annapolis, MD, USA.
- Nienhuis, J.H., Ashton, A.D., Kettner, A.J., Edmonds, D.A., Rowland, J.C., and Tornqvist, T.E., 17-19 May 2016. Predicting coastal deltaic change on a global scale. CSDMS annual meeting, Boulder, CO, USA.
- Andreadis, K., Schumann, G., Stampoulis, D., Smith, A., Neal, J., Bates, P., Sampson, C., Brakenridge, R., and Kettner, A.J., 17-22 April 2016. Building a flood climatology and rethinking flood risk at continental scales. EGU 2016 General Assembly, Vienna, Austria.
- Chen, Y., Overeem, I., Gao, S., Syvitski, J.P.M., and Kettner, A.J., 29-2 April 2016. A sediment budget for the lower Yellow River during the years 1580-1849. AAG Annual Meeting. San Francisco, CA, USA.
- Nienhuis, J.H., Ashton, A.D., Kettner, A.J., Edmonds, D.A., and Rowland, J.C., 21-26 February, 2016. Predicting coastal deltaic change on a global scale. Ocean Sciences meeting. New Orleans, Louisiana, USA.
- Syvitski, J.P.M., Kettner, A.J., Overeem, I., Brakenridge, G.R., and Cohen, S., 19-22 June 2016. Latitudinal Controls on Siliciclastic Sediment Production and Transport. AAPG/SEPM 2016 Annual Convention, Calgary, Canada.

2015 (16)

- Cohen, S., Syvitski, J.P.M., and Kettner, A.J., 12-17 April, 2015. Global scale modeling of riverine sediment loads: tropical rivers in a global context. European Geosciences Union, EGU, Vienna, Austria.
- Kettner, A.J., Syvitski, J.P.M., Overeem, I., and Brakenridge, G.R., 30-3 August-September, 2015. Morphological changes due to flooding: the Indus River. (EXTENDED ABSTRACT 4pg) 9th

- symposium on River, Coastal and Estuarine Morphodynamics, RCEM, Iquitos, Peru.
- Restrepo, J.D., Kettner, A.J., and Syvitski, J.P.M., 30-3 August-September, 2015. Modeling sediment load at intra-basin scale, the Magdalena River, Colombia: A tool for linking erosion to deforestation rates. (EXTENDED ABSTRACT 3pg) 9th symposium on River, Coastal and Estuarine Morphodynamics, RCEM, Iquitos, Peru.
 - Kettner, A.J., Brakenridge, G.R., Borrero, S., De Groeve, T., Slayback, D., Van Praag, E., and Cohen, S., 4-6 May, 2015. Beyond a hazard monitoring system: satellite-based river discharge and surface water extent. Global Flood Partnership conference, Boulder CO, USA.
 - Kettner, A.J., 26-28 May, 2015. CSDMS Tools to Promote Visibility of Open-source Model Code. CSDMS 2015 annual meeting: Models meet Data, Data meet Models. Boulder, CO, USA.
 - Kettner, A.J., 25-27 March, 2015. Inland Water Processes. EarthCube scope & vision workshop. Berkeley, CA, USA.
 - * Xing, F., Syvitski, J.P.M., Kettner, A.J., and Meselhe, E., 26-28 May, 2015. Exploring the impacts of hurricanes and cold fronts on the morphological evolution of the Wax Lake Delta, LA. CSDMS 2015 annual meeting: Models meet Data, Data meet Models. Boulder, CO, USA.
 - Overeem, I., Borkowski, L., Kettner, A.J., Russell, B., and Peddicord, H., 26-28 May, 2015. Bringing earth surface processes simulations to large audiences. CSDMS 2015 annual meeting: Models meet Data, Data meet Models. Boulder, CO, USA.
 - Carter, S., Cohen, S., and Kettner, A.J., 26-28 May, 2015. Quantifying the Effects of Land Use Dynamics on Global Scale Fluvial Suspended Sediment Flux. CSDMS 2015 annual meeting: Models meet Data, Data meet Models. Boulder, CO, USA.
 - Cohen, S., Kettner, A.J., Mayorga, E., and Harrison, J., 26-28 May, 2015. Spatially explicit modeling of particulate nutrient flux in global rivers. CSDMS 2015 annual meeting: Models meet Data, Data meet Models. Boulder, CO, USA.
 - Brakenridge, G.R., and Kettner, A.J., 25-29 May, 2015. River Watch and MODIS NRT for Flood Response and Water Resource Management in Latin America. WGCapD Higher Resolution SRTM Data & Flood Modelling Workshop, Puelba, Mexico.
 - Overeem, I., Kettner, A.J., and Borkowski, L., 14-18 December, 2015. Exposing earth surface process model simulations to a larger audience. AGU, San Francisco, CA, USA.
 - Cohen, S., Kettner, A.J., and Syvitski, J.P.M., 14-18 December, 2015. Global suspended sediment and water discharge dynamics between 1960 and 2010: Continental trends and intra-basin sensitivity. AGU, San Francisco, CA, USA.
 - Brakenridge, G.R., Slayback, D.A., Kettner, A.J., Cohen, S., Syvitski, J.P.M., Overeem, I., de Groeve, T., 14-18 December, 2015. Flood Risk and Climate Change: The Contributions of Remote Sensing. American Geophysical Union AGU, San Francisco, CA, USA.
 - Kettner, A.J., Brakenridge, G.R., van Praag, E., Borrero, S., Young, C.J., Slayback, D.A., Cohen, S., Prades, L., and de Groeve, T., 14-18 December, 2015. On the value of satellite-based river discharge and river flood data. AGU, San Francisco, CA, USA.
 - INVITED: Kettner, A.J., September 8th, 2015. Numerical modeling of Earth Systems during the Anthropocene: A story about fluvial sediments. EAFIT University, Medellin, Colombia.
- 2014 (15)*
- Overeem, I., and Kettner, A.J., 14 October, 2014. Sedimentation patterns in Fluvio-Deltaic systems. Nanjing University, Nanjing, China.
 - Brakenridge, G.R., Kettner, A.J., Praag, E. van, and Groeve, T. de, 7-9 May, 2014. Towards A Global Flood Partnership: GeoSUR/Flood Observatory Collaboration for Flood Alert and Hazard Assessment. 9th Annual Latin American Faculty Summit, Challenges of Computational Hydrology and the Potential Effects on Policy, Microsoft Research (host), Viña del Mar, Chile.
 - Brakenridge, G.R., and Kettner, A.J., 3 October, 2014. Automated Satellite Flood and Wetland Mapping and Measurements. A MundoGEO webinar.

- Chen, Y., Overeem, I., Kettner, A.J., Gao, S., and Syvitski, J.P.M., 15-19 December, 2014. Modeling Flood Dynamics Along the Super-Elevated Channel Belt of the Yellow River, China, over the Last 3,000 Years. AGU, San Francisco, CA, USA.
- Cohen, S., Kettner, A.J., Syvitski, J.P.M., and Yamazaki, D., 15-19 December, 2014. Global-scale simulation of river-floodplain water and sediment exchange within a riverine modeling framework. AGU, San Francisco, CA, USA.
- Cohen, S., Kettner, A.J., Syvitski, J.P.M., April 8-12, 2014. Spatially and Temporally Explicit Prediction of Sediment, Nutrients and Water Discharge in Global Rivers. AAG, Tampa, Florida, USA.
- Cohen, S., Syvitski, J.P.M., and Kettner, A.J., May 20-22, 2014. On the sensitivity of global suspended sediment modeling to dams. CSDMS 2014 annual meeting, Uncertainty and Sensitivity in Surface Dynamics Modeling, Boulder Colorado, USA.
- Di Achille, G., Longhitano, S., Ferranti, L., Hutton, E., Kettner, A., and Rossi, A.P., 10-12 September 2014. Quantitative 2D and 3D modeling of an ancient Gilbert-type fan delta in Shalbatana Vallis, Mars: paleoclimatic and paleohydrologic implications. 87th congress of the Italian Geological Society, Milan, Italy.
- Gao, J.-H., Jia, J., Kettner, A.J., and Xing, F., May 20-22, 2014. Changes in water and sediment exchange between the Changjiang River and Poyang Lake under natural and anthropogenic conditions, China. CSDMS 2014 annual meeting, Uncertainty and Sensitivity in Surface Dynamics Modeling, Boulder Colorado, USA.
- Hutton, E.W.H., Piper, M.D., Peckham, S.D., Overeem, I., Kettner, A.J., Syvitski, J.P.M., 16 November 2014. Building Sustainable Software - The CSDMS Approach. 2nd Workshop on Sustainable Software for Science: Practice and Experiences (WSSSPE2). New Orleans, LA, USA. (EXTENDED ABSTRACT 6PAGES)
- INVITED: Kettner, A.J., Brakenridge, G.R., Praag, E. van, Groeve, T. de, Slayback, D., Cohen, S., 15-19 December, 2014. Dissemination of satellite-based river discharge and flood data. AGU, San Francisco, CA, USA.
- Mayorga, E., Cohen, S., Kettner, A.J., Harrison, J.A., Syvitski, J.M.P., May, 2014. 50-Year trends in sediments and particulate nutrients and carbon in large rivers: a model-based analysis. Joint Aquatic Sciences Meeting, Portland, USA.
- Overeem, I., Higgins, S.A., Syvitski, J.P.M., Kettner, A.J., and Brakenridge, G.R., 15-19 December, 2014. The Impacts of Armoring our Deltas: mapping and modeling large-scale deltaplain aggradation. AGU, San Francisco, CA, USA.
- Syvitski, J.P.M., Hutton, E.W.H., Piper, M., Peckham, S.D., Kettner, A.J., June, 15-19, 2014. Plug and Play Component Modeling — The CSDMS2.0 Approach. IEMSS, San-Diego, CA, USA. (EXTENDED ABSTRACT 6PAGES)
- * Xing, F., Kettner, A.J., Syvitski, J.P.M., and Atkinson, J., May 20-22, 2014. Hydrodynamics and morphological changes of the Wax Lake Delta (WLD) during hurricane Rita, 2005. CSDMS 2014 annual meeting, Uncertainty and Sensitivity in Surface Dynamics Modeling, Boulder Colorado, USA.

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- Ashton, A.D., Nienhuis, J., Ortiz, A.C., Trueba, J.L., Giosan, L., Kettner, A.J., Xing, F., December, 9-13th, 2013. Effects of marine reworking and sea-level rise on deltas of the 21st century, AGU, San Francisco, CA, USA.
- Backus, L., Giordanengo, J., Sacatoro, I., Kettner, A.J., Koch, M., Walsh, J., Fried, L., December, 9-13th, 2013. Cloud forest restoration for erosion control in a Kichwa community of the Ecuadorian central Andes Mountains, AGU, San Francisco, CA, USA.
- Cohen, S., Kettner, A.J., Syvitski, J.P.M., April 14-17, 2013. Human and climate impact on global riverine water and sediment fluxes - a distributed analysis. American Geophysical Union (AGU Meeting of the Americas), Cancun, Mexico.
- INVITED: Kettner, A.J., August 28-30th, 2013. Advances in simulating fluvial sediment transport at

basin-scale. Stratodynamics, Nagasaki, Japan.

- * Xing, F., Kettner, A.J., Syvitski, J.P.M., June, 2013. Exploring the roles of tides, wind, waves, vegetation and roots on deltaic hydrodynamics and morphology during Hurricane Rita. Workshop Delta Dynamics Collaboratory, New Orleans, LA, USA
- Cohen, S., Kettner, A.J., Syvitski, J.P.M., December, 9-13th, 2013. Anthropogenic effects on global riverine sediment and water discharge - a spatially explicit analysis, AGU, San Francisco, CA, USA.
- Syvitski, J.P.M., Cohen, S., Kettner, A.J., Brakenridge, G.R., December, 9-13th, 2013. New Possibilities in Global Hydrology and Sediment Transport, AGU, San Francisco, CA, USA.
- * Xing, F., Kettner, A.J., Syvitski, J.P.M., Ye, Q., Atkinson, J., Bevington, A., Twilley, R., December, 9-13th, 2013. Impact of vegetation on the hydrodynamics and morphological changes of the Wax Lake Delta during hurricanes, AGU, San Francisco, CA, USA.
- Slayback, D., Policelli, F.S., Brakenridge, G.R., Tokay, M.M., Smith, M.M., Kettner, A.J., December 9-13th, 2013. Global, Daily, Near Real-Time Satellite-based Flood Monitoring and Product Dissemination, AGU, San Francisco, CA, USA.
- Kettner, A.J., Syvitski, J.P.M., Overeem, I., Brakenridge, G.R., December 9-13th, 2013. Fluvial geomorphological changes of the Indus River due to human failure, AGU, San Francisco, CA, USA.

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- Cohen, S., Brakenridge, G.R., Kettner, A.J., Syvitski, J.P.M., Fekete, B.Z., and de Groeve, T., Feb., 19-22, 2012. Calibration of Orbital Microwave Measurements of River Discharge Using a Global Hydrology Model. American Geophysical Union (AGU) chapman, Kona, Hawaii, USA.
- Cohen, S., Kettner, A.J., and Syvitski, J.P.M., December 17-21, 2012. Spatio-temporal dynamics in riverine sediment and water discharge between 1960-2010 based on the WBMsed v.2.0 Distributed Global Model. Frontiers in Computational Physics conference, Boulder, CO, USA.
- Cohen, S., Kettner, A.J., Syvitski, J.P.M., December, 3-7, 2012. A distributed analysis of Humans impact on global sediment dynamics. AGU, San Francisco, CA, USA.
- Di Achille, G., Hoke, M.R.T., Rossi, A.P., Hynek, B.M., Esposito, F., Hutton, E.W.H., and Kettner, A.J., March, 19-23, 2012. Process-response sedimentary modeling of ancient martian Deltas 1: Introduction and case studies. 43rd Lunar and Planetary Science Conference, LPSC, The Woodlands, Texas, USA.
- Giosan, L., Coolen, M.J.L., Kaplan, J.O., Constantinescu, S., Filip, F., Filipova-Marinova, M., Kettner, A.J., Thom, N., December, 3-7. Early Anthropogenic Transformation of the Danube-Black Sea System. AGU. San Francisco, CA, USA.
- Hartmann, J., Moosdorf, N., Lauerwald, R., West, A.J., Cohen, S., and Kettner, A.J., August, 2012. A global view on chemical weathering considering supply limitation and soil shielding. 34th International Geological Congress, IGC, Brisbane Australia.
- Hartmann, J., Moosdorf, N., Lauerwald, R., West, A.J., Cohen, S., and Kettner, A.J., June, 2012. Steps towards a global chemical weathering model framework: The role of supply limitation. Goldschmidt, Montreal Canada.
- Kettner, A.J., Syvitski, J.P.M., Overeem, I., and Brakenridge, G.R., December 3-7, 2012. Human induced flooding of the Indus River in 2010: How it changed the landscape. San Francisco, CA, USA.
- Overeem, I., Syvitski, J.P.M., and Kettner, A.J., 2012. Modeling Fluvial Floodplain Deposits (AAPG), Long Beach, CA, USA.
- Overeem, I., Hutton, E.W.H., Kettner, A.J., Peckham, S., Syvitski, J.P.M., December, 3-7, 2012. The Community Surface Dynamics Modeling System: Experiences on Building a Collaborative Modeling Platform. San Francisco, CA, USA.
- Overeem, I., Boyd, R., Kettner, A.J., Syvitski, J.P.M., December 3-7, 2012. Modeling Floodplain Depositional Patterns under Variable Flood Regimes. San Francisco, CA, USA.
- Syvitski, J.P.M., Hutton, E.W.H., Peckham, S.D., Overeem, I., and Kettner, A.J., December, 3-7. CSDMS2.0: Computational Infrastructure for Community Surface Dynamics Modeling. AGU, San Francisco, CA, USA.

- Upton, P., Vandergoes, M., Stumpner, P., Levy, R., Roop, H., Fitzsimmons, S., Howarth, J., Gorman, A., Dunbar, G., Kettner, A.J., December, 3-7. Using numerical models to place constraints on fluvial input into glacial lakes, Southern Alps, New Zealand. AGU, San Francisco, CA, USA.
- Vanmaercke, M., Kettner, A., Van Den Eeckhaut, M., Poesen, J., Govers, G., Mamaliga, A., Verstraeten, G., Radoane, M., and Syvitski, J., April, 22-27, 2012. Predicting sediment yield for catchments under pristine conditions: the role of tectonic activity. EGU, Vienna, Austria.
- Vanmaercke, M., Poesen, J., Govers, G., Verstraeten, G., Kettner, A., and Van Den Eeckhaut, M., April, 22-27, 2012. Quantifying the effects of human impact on sediment yield for European catchments. EGU, Vienna, Austria.

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- Ashton, A., Giosan, L., Kettner, A.J., Hutton, E.H.W., and Ibanez, C., April 2011. Influence of wave angle distribution and sediment supply variation on plan-view delta morphology: application to the Ebro Delta, Spain. EGU, Vienna, Austria.
- Ashton, A., Giosan, L., Nienhuis, J., Kettner, A., Ibanez, C., and Murray, B., June, 2011. Influence of wave angle distribution and sediment supply variation on plan-view delta morphology: application to the Ebro. Impacts of Global Change on Deltas, Estuaries & Coastal Lagoons. Sant Carles de la Rapita, Spain.
- Brakenridge, G.R., Kettner, A.J., Syvitski, J.P.M., Policelli, F., de Groeve, T., and Nghim, S.V., August 2011. Predicting and Managing the effects of extreme floods using orbital remote sensing. International Geoscience and Remote Sensing Symposium (IGARSS), Sendai, Japan.
- Cohen, S., Kettner, A.J., and Syvitski, J.P.M., Oct., 28-30, 2011. Improved water discharge predictions in WBMsed, a Global riverine Sediment Flux model. CSDMS annual meeting, Boulder, CO, USA.
- Cohen, S., Kettner, A.J., Syvitski, J.P.M., Fekete, B., Dec. 5-9, 2011. Global riverine sediment flux predictions, the WBMsed v2.0 model. American Geophysical Union (AGU), San Francisco, California, USA.
- Darnenova, K., Carbonari, K., Kettner, A.J., Apling, D., and Higgins, G.J., Dec. 5-9, 2011. Assessment of Freshwater Availability in the Southwestern US under Changing Climate. American Geophysical Union (AGU), San Francisco, California, USA.
- * Hannon, M.T., Kettner, A.J., Syvitski, J.P.M., and Overeem, I., March 2011. Longitudinal profiles, Neotectonics, and Potential Bedload Transport. Hydrological Science symposium, Boulder CO., USA.
- INVITED: Kettner, A.J., Xing, F., Ashton, A., Hannon, M., Ibanez, C., and Giosan, L., April 2011. Unraveling the impact of humans versus climate on the morphological evolution of the Ebro Delta, Spain. EGU, Vienna, Austria.
- Kettner, A.J., and Brakenridge, G.R., April 2011. Estimating time series of fluvial suspended sediment by applying remote sensing techniques. EGU, Vienna, Austria.
- Kettner, A.J., Overeem, I., Cohen, S., and Syvitski, J.P.M., Dec. 5-9, 2011. Downscaling discharge variability: how well can daily flow characteristics be predicted based on lower resolution flow data? American Geophysical Union (AGU), San Francisco, California, USA.
- Overeem, I., Syvitski, J., Kettner, A.J., Hutton, E., and Brakenridge, B., March 2011. Sinking Deltas due to Human Activities, Invited talk for Tulsa Geological Society. In: AAPG Search and Discovery #70094.
- Syvitski, J.P.M., Kettner, A.J., and Brakenridge, G.R., Dec. 5-9, 2011. Global Overview On Delivery Of Sediment To The Coast From Tropical River Basins. American Geophysical Union (AGU), San Francisco, California, USA.
- Upton, P., Litchfield, N., Orpin, A., Kettner, A., Hicks, M., Vandergoes, M., January 2011. Modelling Source-to-Sink systems in New Zealand: The Waipaoa and Waitaki catchments. AGU Chapman Conference on Source to Sink Systems Around the World and Through Time, Oxnard, CA, USA.
- Vanmaercke, M., Kettner, A.J., Van Den Eeckhaut, M., Poesen, J., Govers, G., Mamaliga, A., Verstraeten, G., and Radoane, M., Oct., 28-30, 2011. Predicting sediment yields from undisturbed catchments: the dominant role of tectonics. CSDMS annual meeting, Boulder, Colorado, USA.

- Wickert, A.D., Anderson, R.S., Mitrovica, J.X., Kettner, A.J., and Lee, C.M., Dec. 5-9, 2011. Dynamic Drainage Networks and Discharge Histories in North America over the Last Glacial Cycle: Implications for Geomorphic Change and Early Human Settlement Patterns. American Geophysical Union (AGU), San Francisco, California, USA.
- * Xing, F., Kettner, A.J., October 2011. Exploring river - wave dominated delta evolution applying a model-coupling approach. Boulder, CO, USA.
- * Xing, F., Kettner, A.J., and Hannon, M.T., March 2011. Impact of Climate change and Human interference on the evolution of the Ebro Delta, Spain in the last 2000 years. Hydrological Science symposium, Boulder CO., USA.
- * Xing, F., Kettner, A.J., Ashton, A., Hutton, E., and Syvitski, J.P.M., Dec., 5-9, 2011. Exploring river – wave dominated delta evolution applying a model-coupling approach. American Geophysical Union (AGU), San Francisco, California, USA.
- * Xing, F., Kettner, A.J., Ashton, A., Giosan, L., Hannon, M., and Ibanez, C., Aug., 10-19, 2011. Impact of Climate changes and Human effect on the evolution of Ebro Delta, Spain in the last 2000 years. NCED summer school (Summer Institute on Earth-surface Dynamics), Minneapolis, Minnesota, USA.

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- Ashton, A., Hutton, E.W.H., Kettner, A.J., Jerolmack, D., and Giosan, L. October 2010. Coupling between coastline and fluvial dynamics. CSDMS conference, Modeling for Environmental change, San Antonio, Texas.
- Brakenridge, G.R., Kettner, A.J., Nghiem, S.V., de Groeve, T., Syvitski, J.P.M., December 2010. Effects of Fluvial Morphology On Orbital Remote Sensing Measurements of River Discharge. AGU fall meeting, San Francisco, USA.
- Cohen, S., Kettner, A.J., Syvitski, J.P.M., October 2010. Modeling global scale sediment flux, a new component in the spatially distributed Framework for Aquatic Modeling of Earth System (FrAMES). CSDMS conference, Modeling for Environmental change, San Antonio, Texas.
- Kettner, A.J., Hannon, M.T., and Syvitski, J.P.M., June 2010. Simulating hourly discharge fluxes through the Niger delta. Western Pacific Geophysics Meeting, Taipei, Taiwan.
- Kettner, A.J., Overeem, I., and Syvitski, J.P.M., June 2010. Determining the variability of daily water discharge based on characteristics of annual streamflows. Western Pacific Geophysics Meeting, Taipei, Taiwan.
- Kettner, A.J., Xing, F., Ashton, A.D., December 2010. Are Human influences responsible for the existence and possible drowning of (parts of) the Ebro Delta, Spain? AGU fall meeting, San Francisco, USA.
- Lutzmann, S., Kettner, A.J., October 2010. Modeling Holocene discharge and sediment fluxes for the Rhine River. CSDMS conference, Modeling for Environmental change, San Antonio, Texas.
- Milliman, J.D., Ludwig, W., Kettner, A.J., Xu, K., 2010. Recent trends in fluvial discharge to the Black Sea *in* CIESM, 2010, Climate forcing and its impacts on the Black Sea marine biota. Nr. 39 in CIESM Workshop Monographs (F. Briand, Ed.), 152 pages, Monaco.
- Syvitski, J.P.M., Brakenridge, G.R., Kettner, A.J., Overeem, I., September 2010. Storm Surge Flooding of Deltas Made Susceptible by Human Activities. Storm Surges Congress, Hamburg, Germany.
- Syvitski, J.P.M., Brakenridge, G.R., Kettner, A.J., September 2010. Divergent Flow of Water and Sediment in Lowland Coastal Settings. 18th International Sedimentological Congress, Mendoza, Argentina.
- Syvitski, J.P.M., Kettner, A.J., Hutton, E.W.H., June 2010. Observing Coastal-Resuspension associated with Tropical Cyclones. Western Pacific Geophysics Meeting, Taipei, Taiwan.
- Syvitski, J.P.M., Kettner, A.J., Hutton, E.W.H., June 2010. Hyperpycnal Current-sensitive Continental Margins. Western Pacific Geophysics Meeting, Taipei, Taiwan.

- Syvitski, J.P.M., Kettner, A.J., Overeem, I., Hutton, E.W.H., Hannon, M.T., April 2010. Human and Natural Controls on a Delta's Surface Elevation Relative to Local Mean Sea Level. AAPG/SEPM, New Orleans, USA.
- Upton, P., Orpin, A., Litchfield, N., Kettner, A.J., Hicks, M., Vandergoes, M., October 2010. Modelling suspended sediment loads: Insight into the past and future of the Waipaoa catchment, North Island, New Zealand. CSDMS conference, Modeling for Environmental change, San Antonio, Texas.

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- INVITED: Kettner, A.J., Influences of Climate change and Human impact on riverine sediment fluxes. Dept. of Earth and Ocean Sciences, Univ. of South Carolina, Columbia. November 5th, 2009.
- INVITED: Kettner, A.J., Gomez, B., Cui, Y., Syvitski, J.P.M., December 2009. Simulated fluvial flux changes for the Waipaoa River as a response to climate change in the 21st Century. AGU fall meeting, San Francisco, USA.
- Kettner, A.J. Changes in riverine fluxes due to humans and climate impact. Institute of Arctic and Alpine Research, University of Colorado. October 5th, 2009.
- * Hannon, M.T., Syvitski, J.P.M., Kettner, A.J., December 2009. Analyzing River Longitudinal Profiles Around the World. AGU fall meeting, San Francisco, USA.
- Syvitski, J.P.M., Hannon, M.T., Kettner, A.J., Bachman, S., December 2009. Concepts on tracking the impact of tropical cyclones through the coastal zone. AGU fall meeting, San Francisco, USA.
- Upton, P., Kettner, A.J., Litchfield, N., Orpin, A.R., December 2009. Analyzing River Longitudinal Profiles Around the World. AGU fall meeting, San Francisco, USA.
- Syvitski, J.P.M., Hutton, E.W.H., Kettner, A.J., and Milliman, J.D., June, 2009. Hypertypcnal flows and the generation of continental shelf-traversing turbidity currents. Modeling of turbidity currents and related gravity currents. Santa Barbara, CA, USA.
- Milliman, J.D., and Kettner, A.J., June 2009. Recent Trends in Fluvial Discharge of Water and Sediment to the Black Sea CIESM International Workshop, Trabzon, Turkey.
- Syvitski, J.P.M., Hutton, E.W.H., Overeem, I., Kettner, A.J., and Peckham, S., June 2009. An Overview of Source to Sink Numerical Modeling Approaches & Applications. AAPG, Denver, USA.
- Kettner, A.J., Syvitski, J.P.M., and Gomez, B., April 2009. Coupling models to investigate the dispersal and accumulation of fluvial sediment delivered by the Waipaoa River, to Poverty Shelf, New Zealand over a 3000year period. Source S2S Integration and Synthesis Workshop Gisborne, New Zealand

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- Brommer, M.B., Weltje, G.J., Kettner, A.J., Trincardi, F., April 2008. Source-to-sink analysis of the Northern Adriatic Basin over the past 19,000 years: data-model comparison using a mass balance approach. EGU meeting, Vienna, Austria.
- Kettner, A.J., Syvitski, J.P.M., Restrepo, J.D., December 2008. Simulating Spatial Variability of Fluvial Sediment Fluxes Within the Magdalena Drainage Basin, Colombia. AGU fall meeting, San Francisco, USA.
- * Hannon, M.T., Syvitski, J.P.M., Kettner, A.J., December 2008. Hydrologic modeling of a tropical river delta by applying remote sensing data: The Niger Delta and its distributaries. AGU fall meeting, San Francisco, USA.
- Kettner, A.J., Gomez, B., and Syvitski, J.P.M., December 2008. Human catalysts or climate change: which will have a greater impact on the sediment load of the Waipaoa River in the 21st century? ICCE Symposium, NZ.
- Syvitski, J.P.M., and Kettner, A.J., December 2008. Scaling Sediment Flux across Landscapes. ICCE Symposium, NZ.
- Overeem, I., Syvitski, J.P.M., and Kettner, A.J., March 2008. Are Arctic Rivers Unique And Are They Changing? 38th Arctic Workshop, Boulder, CO, USA.

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- Brommer, M.B., Weltje, G.J., Kettner, A.J., Trincardi, F., April 2007. A mass-balanced reconstruction of sediment supply to the Adriatic Basin from the Last Glacial Maximum to the present. EGU meeting, Vienna, Austria.
 - Kettner, A.J., and Syvitski, J.P.M., December 10th – 14th, 2007. Fluvial responses to environmental perturbations since the Last Glacial Maximum. AGU fall meeting, San Francisco, USA.
 - Overeem, I., Briner, J.P., Kettner, A.J., and Syvitski, J.P.M., December 10th - 14th, 2007. River Response to Deglaciation: a Case-Study of Clyde Fjordhead, Baffin Island, Arctic Canada. AGU fall meeting, San Francisco, USA.
 - Hutton, E.W., Kettner, A.J., Kubo, Y., Gomez, B., and Syvitski, J.P.M., December 10th – 14th, 2007. TI: Simulating the effects of hyperpynal events on the stratigraphy of Poverty Shelf, New Zealand. AGU fall meeting, San Francisco, USA.
 - Syvitski, J.P.M., Hannon, M., Kettner, A.J., Jenkins, C., and Hutton, E.W.H., December 10th – 14th, 2007. Morphodynamics of River Lowlands and Deltas: Combining Historical Maps with Satellite Data. AGU fall meeting, San Francisco, USA.
 - Milliman, J., Syvitski, J.P.M., Kettner, A.J., Ludwig, W., April 9th – 13th, 2007. Water and Sediment Delivery from Mediterranean Rivers: Regional, Global and Temporal Perspectives. 38th CIESM Congress, Istanbul, Turkey.
 - Gomez, B., Kettner, A.J., Syvitski, J.P.M., and Trustrum, N.A., July 28th - August 3rd, 2007. Past and potential effects of anthropogenic and climatic forcing on the suspended sediment discharge of the Waipaoa River, New Zealand. INQUA Conference, Cairns, Australia.
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- Kettner, A.J. and Gomez, B., Syvitski, J.P.M., and Hutton, E.W.H., December 11-15, 2006. Simulating Sediment Delivery to and Accumulation on the Poverty Shelf, New Zealand. AGU Fall meeting, San Francisco, USA.
 - Syvitski, J.P.M., Mulder, T., Milliman, J.D., Imran, J., and Kettner, A.J., October 22-25, 2006. On the Nature and Frequency of Flood-Generated Hyperpynal Flows into the Coastal Ocean. GSA, Philadelphia, USA.
 - Kettner, A.J. and Gomez, B., June 14, 2006. Days of future past: predicting patterns of sediment production and dispersal in the Waipaoa River basin. Delft Earth symposium, Delft, The Netherlands.
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