Hannah Baranes (she/her)

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Gulf of Maine Research Institute 350 Commercial Street Portland, ME 04101

Education	University of Massachusetts Amherst Ph.D., Geosciences Thesis Committee: Jonathan Woodruff (advisor), Robert D Bradley, and Elisabeth Hamin Thesis: Advances in assessing flood hazard and sediment dynamics of	2017–Aug. 2021 DeConto, Raymond <i>at the coast</i>
	University of Massachusetts Amherst M.S., Geosciences Thesis Advisor: Jonathan Woodruff Thesis: Sedimentological records and numerical simulations of the C. tsunami in southwestern Japan	2013-15 .E. 1707 Hōei tsunami in
	Dartmouth College B.A., Earth Science Thesis Advisor: Meredith Kelly Honors Thesis: <i>Surface exposure dating of the Huancané III mora</i> <i>Quelccaya Ice Cap's maximum extent during the last glacial period</i>	2008-12 tines in Peru: A record of
Appointments	Assistant Research Scientist Climate Center, Gulf of Maine Research Institute Using observation and modeling-based methods to develop hazard information for Maine; develop technical guidance a tools to support rulemaking and adaptation around coastal	Mar. 2024— o localized coastal flood and decision support flooding
	Postdoctoral Researcher <i>Climate Center, Gulf of Maine Research Institute</i> Mentor: David Reidmiller	Jan. 2022–Feb. 2024
	Postdoctoral Researcher Department of Civil & Environmental Engineering, California Poly Advisor: Stefan Talke Developed a suite of statistical/analytical tools to evaluate to influences of sea level rise, vertical land motion, river flows levels in the Sacramento-San Joaquin Delta.	Sep. 2021-Jan. 2022 <i>stechnic State University</i> the spatially varying , and tides on water
	Graduate Researcher Department of Geosciences, University of Massachusetts Amherst	2017-21
	Insurance-Linked Securities Consultant <i>AIR-Worldwide, Boston, MA</i> Developed earthquake and tropical cyclone hazard modelin insurance-linked securities triggered by modeled financial lo	2016 ng procedures for oss

	Graduate Researcher and Teaching Assistant Department of Geosciences, University of Massachusetts Amherst	2013-15
	Member Leader <i>AmeriCorps, Barnstable, MA</i> Coordinated and led projects for a 13-person team in natural res management, disaster preparedness & response, and environmen	2013 ource ntal education
Publications	[13] Sun, S., Baranes, H., Loomis, E. & Brooks, C. (in review). The Climate Vulnerability Assessment.	remont Municipal
	[12] Baranes, H. , Slovinsky, P. & Whiteman, N. (in press). Sea leve flooding, and landscape impacts. In: Maine Climate Council (in press Assessment of Climate Change and Its Effects in Maine.	el rise, coastal ss). Scientific
	[11] Baranes, H., Dykstra, S. L., Jay, D. A. & Talke, S.A. (2023). S the rivers of daily water levels in the Sacramento-San Joaquin <i>Reports</i> , 13(1), 22454, DOI: 10.1038/s41598-023-49204-z.	Sea level r ise and Delta. <i>Scientific</i>
	[10] Yellen, B., Woodruff, J. D., Baranes, H., Engelhart, S., Geyer, N., & Griswold, F. (2023), Salt marsh response to inlet switch increases in tidal inundation. <i>Journal of Geophysical Research: Ear</i> DOI: 10.1029/2022JF006815.	r, W. R., Randall, -induced <i>th Surface</i> , 128(1),
	[9] Cho, A., Kashima, K., Baranes, H., Ladlow, C., Katsuki, K., (2023), Fossil diatom assemblage changes due to paleoenviron tsunami, and typhoon in southern Japan, <i>Island Arc</i> , 32(1).	& Woodruff, J. D Iment change,
	[8] Cooke, M. L., Baranes, H., Castañeda, I. S., Woodruff, J. D., (2022), After GRExit: Reducing bias in geoscience graduate ac 103, DOI: 10.1029/2022EO220285.	, & Boutt, D. Imissions, <i>Eos,</i>
	[7] DeConto, R. M., Baranes, H., Woodruff, J. D., Halberstat, A E. (2022), Sea Level Rise. In E. Douglas & P. Kirshen (Eds.). Impacts and Projections for the Greater Boston Area (pp. 67-99).	A. R., & Kopp, R. Climate Change
	[6] Baranes, H., Woodruff, J. D., Geyer, W. R., Yellen, B. C., Ri Griswold, F. (2022), Sources, mechanisms, and timescales of s to a New England Salt Marsh. Journal of Geophysical Researce DOI: 10.1029/2021JF006478.	chardson, J. B., & ediment delivery ch: Earth Surface,
	[5] Enríquez, A. R., Wahl, T., Baranes, H., Talke, S., Orton, P., Haigh, I. D. (2022), Predictable changes in extreme sea levels	Booth, J., & and coastal

- Haigh, I. D. (2022), Predictable changes in extreme sea levels and coastal flood risk due to long-term tidal cycles. *Journal of Geophysical Research: Oceans*, DOI: 10.1029/2021JC018157.
- [4] Baranes, H., Woodruff, J. D., Talke, S. A., Kopp, R. E., Ray, R. D., & DeConto, R. M. (2020). Tidally driven interannual variation in extreme sea level frequencies in the Gulf of Maine. *Journal of Geophysical Research Letters: Oceans*, DOI: 10.1029/2020JC016291.

	 [3] Ladlow, C., Woodruff, J. D., Cook, T. L., Baranes, H., & Kanamaru, K. (2019). A fluvially derived flood deposit dating to the Kamikaze typhoons near Nagasaki, Japan. <i>Natural Hazards, 99(2)</i>, 827-841, DOI: 10.1007/s11069-019-03777-z. 	
	[2] Baranes, H., Woodruff, J. D., Loveless, J. P., and Hyodo, M. (2018), Interseismic coupling-based earthquake and tsunami scenarios for the Nankai Trough, <i>Geophysical Research Letters</i> , DOI: 10.1002/2018GL077329.	
	 Baranes, H., Woodruff, J. D., Wallace, D. J., Kanamaru, K., and Cook, T. L. (2016), Sedimentological records of the C.E. 1707 Hoei tsunami and regional coastal flooding from the Bungo Channel, southwestern Japan, <i>Natural Hazards</i> DOI: 10.1007/s11069-016-2498-3. 	
Grants Active	National Science Foundation Civic Innovation	
	Challenge, Stage 2 2023-24 Codeveloping local flood thresholds and high tide flooding predictions with community science and innovative technology (\$1,000,000)	
	PI: David Reidmiller (GMRI); Co-I: Gayle Bowness (GMRI) H. Baranes led project ideation, partnerships, and proposal development	
	Maine Department of Transportation (RFQ# T202204001)2022-25Maine Coastal Flood Risk Model (\$35,305 subaward)Project lead: Woods Hole Group; Project partners: H. Baranes, Kim Huguenard (UMaine), Kelly Cole (UMaine), Paul Kirshen (UMass Bos.), Tom Ballestero (UNH), Damian Brady (UMaine), CMA Engineers	
	National Fish and Wildlife Foundation – NationalCoastal Resilience Fund2023-24Bridging the science-action gap in Maine with a coastal flooding projections and education hub(\$162,952)PI: H. Baranes	
Complete	National Science Foundation Civic InnovationChallenge, Stage 1 (Award ID: 2228587)Codeveloping local flood thresholds and high tide flooding predictions with community science andinnovative technology (\$50,000)PI: David Reidmiller (GMRI); Co-I: Gayle Bowness (GMRI)H. Baranes led writing of project description and data management plan	
Fellowships	Northeast Climate Adaptation Science Center Fellowship2020-21NASA Earth and Space Sciences Graduate Fellowship (\$120,000)2017-19UMass Amherst University Fellowship2013-14Massachusetts Space Grant Summer Fellowship (\$5,000)2014Steffanson Fellowship, field research grant, Dartmouth College (\$4,000)2011John Lindsley Fund, field research grant, Dartmouth College (\$4,000)2011	

Service Maine Climate Council, Scientific & Technical Subcommittee 2023— Serving among a group of scientists mandated by Maine Public Law Chapter 476 "to identify, monitor, study and report out to the [Maine Climate] Council and to the working groups... findings and recommendations related to climate change in the State and its effects on the State's climate, species, marine and coastal environments and natural landscapes and on the oceans and other bodies of water."

Ch. 600 Marine Oil Terminal Natural Hazard Risk Assessment 2024— Work Group

Developing technical guidance for marine oil terminal owners to incorporate sea level rise into Natural Hazard Risk Assessments mandated by Ch. 600 state regulations that are part of the licensing process.

Diversity, Equity, Inclusion, Justice & Accessibility Staff Advisory 2024— Group, Gulf of Maine Research Institute

Support the management team and board of directors in translating broad diversity, equity, inclusion, justice, and accessibility goals into specific objectives and plans of action.

Fifth National Climate Assessment Review Editor 2023

Worked with the Coastal Effects chapter authors to ensure that all public and peer review comments were addressed in the assessment's Fourth Order Draft

Greater-Boston Research Advisory Group

Developing state-of-the-art coastal flood projections for the City of Boston by combining probabilistic sea level projections with joint tide-surge statistics; coauthoring the sea level rise and coastal flooding chapter for a final report aimed at policymakers and practitioners in the greater-Boston area

BRiDGE Committee Member

Co-coordinator for lecture series that brings early-career scientists from underrepresented minority groups to the UMass campus for informal mentorship sessions, research talks, and broader impacts talks, with the mission of combatting attrition of students from underrepresented minority groups in STEM

UMass Geosciences Graduate Application Co-Author

Worked with department faculty to co-write an application supplement that promotes holistic review and inclusion in the graduate application process

Cryosphere Pavilion at COP-25

Presented on coastal hazards to climate negotiators, NGO representatives, researchers, and media at the COP-25 United Nations Climate Change Conference; served as a volunteer organizing logistics at the International Cryosphere and Climate Change Initiative's Cryosphere Pavilion

Massachusetts State Representative Climate Briefing

Gave an oral and written briefing on coastal flooding and erosion hazards in Massachusetts to State Representative Michael J. Finn, chair of the Massachusetts House Committee on Global Warming and Climate Change

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2020-21

2019-22

2019

2019

2020

Mentorship	 Gulf of Maine Research Institute Connor Brooks, Research Technician (2023-4) Rachael Smith, Masters Thesis Committee, University of Maine (2024) Coastal Measures (startup company), Blue w(AI)ve Accelerator scient mentor (2023-4) Debate Williams, National Science Foundation Research Foundations 	4—) tific
	 Dakota Williams, National Science Foundation Research Experience Undergraduates (NSF REU; 2024) Chelsea Moody, NSF REU (2023) Erica Loomis, Colby/Buck Lab Internship (2023) Connor Brooks, NSF REU (2022) 	IOr
	 UMass Amherst Geosciences (co-advising) Honors project: Sediment delivery to New England salt marshes (2018-20) Honors project: Sedimentological flood archives in southwestern Japan (2014) Senior honors thesis co-advisor: Sedimentological signatures of regional seis western Shikoku and eastern Kyushu, Japan (2014) 	micity in
University Teaching	Guest Lecturer, University of New England <i>Geographic Information Systems</i> (1 class): intro to sea level rise	2022
	Guest Lecturer, Geosciences, UMass Amherst2019-20Integrative Experience (1 class): science communication2019-20Coastal Processes (4 classes): sea level rise, storm surge, tides, flood statistics2019-20Natural Hazards (2 classes): coastal erosional hazards, earthquakes, tsunamis2019-20	
	Teaching Assistant , Geosciences, UMass Amherst Sedimentology and Sedimentology Lab Sedimentology Honors Colloquium Introductory Oceanography	2014-15
Awards	Capitol Hill Scholar University Corporation for Atmospheric Research, Washington, DC	2019
	Outstanding Geosciences Teaching Assistant Department of Geosciences, UMass Amherst	2015
	John Ebers Prize, Most Outstanding Earth Science Undergraduate Department of Earth Science, Dartmouth College	2012
	Upham Geology Prize, Most Outstanding Senior Honors Thesis Department of Earth Science, Dartmouth College	2012
	Sigma Xi science, math, and engineering research competition, first place <i>Dartmouth College</i>	2012
Fieldwork Selected	Maine U.S. – Tide gauge installation Northeastern U.S. – Assessment of sediment supply to tidal marshes Shikoku and Kyushu, Japan – Paleotsunami reconstructions Quelccaya Ice Cap, Peru – Tropical terrestrial climate change records USA Under-24 National Team Assistant Coach (USA Ultimate)	2022– 2018-21 2013-14 2011 2020–

Coaching & Athletic	Founding athlete, Portland Rising (Maine professional ultimate team) Silver Medalist, World Ultimate Championships	2020– 2018
Achievements	Head Coach and Program Director, Amherst High School Ultimate	2017-21
	National Champion, USA Ultimate Mixed Division	2016
	Coach, Harvard University Ultimate	2015-16
	Coach, National Ultimate Training Camp	2015-16
Invited Talks & Community Presentations	z [32] Evaluating coastal flood hazard; Maine and New Hampshire Port S Forum; April 9, 2024	afety
	[31] Evaluating coastal flood hazard; Maine and New Hampshire spill response committee meeting (hosted by US Coast Guard); March 28, 2024	
	[30] Sea Changes: Understanding and Preparing for Coastal Maine's Extreme Weather Events; Chebeague Cumberland Land Trust; February 13, 2024	
	[29] Coastal Flooding on January 10 and 13; Waterfront Alliance; February 13, 2024	
	[28] Drivers, Monitoring, and Impacts of Coastal Flooding in the Gulf of Maine; Saint George Resiliency Committee; February 7, 2024	
	[27] Gulf of Maine Flood Hazard; USGS Northeast Climate Adaptation Science Center Review; February 6, 2024	
	[26] February High Tides: Gathering Scientific Data; Coastal Maine middle school students; January 31, 2024	
	[25] Climate Vulnerability in Tremont; Community vulnerability assessment readout; January 23, 2024	
	[24] Sea level rise in the Sacramento San Joaquin Delta; Presentation to California State Senator Laird; December 11, 2023	
	[23] Portland "Influencers"; King Middle School; November 14, 2023	
	[22] Climate and Coastal Hazards; Semester by the Sea; October 30, 202	23
	[21] Coastal flooding science; NSF Civic Innovation Challenge Teacher October 27, 2023	Institute;
	[20] Rising seas and warming waters: Climate stresses to Gulf of Maine species; Western Maine Audubon Society; October 11, 2023	marine
	[19] Communicating about sea level rise; Seguinland Institute; October	4, 2023
	[18] Sea level rise and coastal flooding; SOS Saco Bay Annual Meeting; September 27, 2023	
	[17] Climate and Coastal Hazards; Fulbright Teachers; August 8, 2023	
	[16] Rise Up! Portland; Sea level rise panel with Halcyon string quarter; 2023	May 4,

[15] Gulf of Maine Flood Hazard: From Theoretical to Community-Collaborative Research, Northeast Climate Adaptation Science Center, March 29, 2023

[14] Sea Level Rise Science, Coastal Flood Risk, and Resilience Measures, Lincolnville Conservation Commission, February 9, 2023

[13] Coastal Climate Risks; Freeport Sustainability Board, February 6, 2023

[12] Saint George Students and Sea Level Rise; Saint George Middle School, February 1, 2023

[11] Building Stronger Communities – Sea Level Rise: From Understanding to Action; Governor's Office of Policy Innovation & the Future Community Resilience Partnership webinar series; November 21, 2022

[10] Climate change impacts to parks, Maine Recreation & Park Association Fall Workshop, October 14, 2022

[9] Demystifying Sea Level Rise and Coastal Flooding Projections, SOS Saco Bay Coastal Conference, September 27, 2022

[8] Massive Tides, Warming Waters, and Rising Seas: The Gulf of Maine Explained, Mount Washington Observatory Science in the Mountains Lecture Series, September 13, 2022

[7] Preparing Communities for Sea Level Rise, King Middle School, June 1, 2022

[6] Demystifying Sea Level Rise and Flooding Projections, Maine Department of Environmental Protection Webinar Series, April 26, 2022.

[5] Preparing Coastal Communities for Sea Level Rise and Flooding, Biddeford Climate Task Force monthly meeting, April 25, 2022.

[4] Preparing Coastal Communities for Sea Level Rise and Flooding, Rockport Conservation Commission monthly meeting, April 13, 2022.

[3] Global to Local Projections of Sea Level Rise for the Town of Falmouth, Falmouth Town Meeting, March 9, 2022.

[2] The Greenland and Antarctic Ice Sheets: Sea Level Implications and the South Pacific, 25th Conference of Parties, Madrid, Spain, December 12, 2019.

[1] Big Tides and Rising Sea: Estimating Flood Hazard in a Changing World, 25th Conference of Parties, Madrid, Spain, December 2, 2019.

Media[7] Feb 15, 2024; Associated Press (Print and Film); It's time for Northeast to
prep for floods like those that hit this winter. Climate change is why.
February 15, 2024; WCBS Newsradio 880 (Television); January Coastal Storms
[6] Feb 14, 2024; CBC Montreal (Television); Lacôte du Maine dévastée par les
tempêtes

	[5] Jan 28, 2024; Boston Globe (Print); January storms nearly wiped out Maine's lobster industry. Now comes the hard part
	[4] Jan 26, 2024; CNN (Television); Watch back-to-back storms wreak havoc in New England
	[3] October 23, 2023; News Center Maine (Television); Gulf of Maine Research Institute study seeks to improve flood resiliency in coastal communities by tracking water levels
	[2] 2023; Documentary; We are destroyed
	[1] Nov 11, 2022; New Center Maine (Television); Maine scientists use new tools to help improve flood preparedness
Conference Presentations	[23] <i>Talk:</i> Brooks, C. & Baranes, H. (Mar. 2024), Developing a coastal flood risk assessment framework to support climate-smart working waterfronts in Maine, <i>GSA Northeastern Section Annual Meeting</i>
	[22] Poster: Barnes, H., Talke, S. A., Dykstra, S. L., & Jay, D. (Dec. 2023), Drivers of daily water levels and sea level rise in the Sacramento-San Joaquin Delta, San Francisco Bay, <i>American Geophysical Union Annual Meeting</i>
	[21] <i>Poster:</i> Baranes, H. , Bowness, G., Bursk, C., Carter, J., Fisher, A., Glazer, B., Harvey, M., Johnson, T., Lea, R., Long, A., Reidmiller, D. & Young Morse, R. (Dec. 2023), Leveraging Community Science and low-cost water level sensors for building local flood resilience, <i>American Geophysical Union Annual Meeting</i>
	[20] <i>Talk:</i> S.A. Talke, N. McGuire, S. Dykstra, H. Baranes , S. Lee (Apr. 2023), Is flood risk in the Sacramento-San Joaquin Delta increasing? <i>California State Universities Water Conference</i>
	[19] <i>Talk:</i> Woodruff, J., Autery, M., Baranes, H., Cook, T., Griswold, F., Hansen, L., & Yellen, B. (Apr. 24-28, 2023), Controls on Sediment Delivery to New England Salt Marshes and Resulting Limits on Future Resilience, <i>EGU General Assembly</i>
	[18] <i>Talk:</i> Talke, S., McGuire, N., Dykstra, S., Baranes, H., Lee, S. (Apr., 2023), Is flood risk in the Sacramento-San Joaquin Delta increasing? <i>California State Universities Water Conference</i> .
	[18] <i>Talk:</i> Dykstra, S., Baranes, H. , Talke, S., & Jay, D. (Oct. 24-28, 2022), The many factors influencing sea level trends and variability in deltas, <i>Physics of Estuaries and Coasts Conference</i> .
	[17] <i>Talk:</i> Steinke, C. & Baranes, H. (Sep. 16, 2022), A data-based approach to building a coastal flood adaptation strategy for Portland's Union Wharf, <i>Island Institute Climate Symposium</i> .

[16] Talk: Kirshen, P., Baranes, H., Pagsuyoin, S., Hamin Infield, E., Kahl, K., & Thiagarajan Sharman, K. (Jul. 19-21, 2022), Northeast Center for Coastal Resilience, National Working Waterfront Network Conference.

[15] *Talk:* Griswold, F., Woodruff, J. D., Yellen, B. C., **Baranes, H.,** Cook, T., Autery, M., Hansen, O., & Wenczel, S. (Mar. 20-22, 2022), Sediment sourcing and accumulation on New England marshes, *GSA Northeastern Section Annual Meeting*.

[14] *Poster*: Autery, Molly, Cook, T., Woodruff, J. D., Yellen, B. C., Griswold, F., **Baranes, H.,** & Hansen, O. (Mar. 20-22, 2022), Regional variability of accretion rates in northeastern USA salt marshes in relation to unvegetated to vegetated ratio (UVVR), *GSA Northeastern Section Annual Meeting*.

[13] *Talk:* Yellen, B. C., Woodruff, J. D., **Baranes, H.,** Engelhart, S., Geyer, W. R., & Randall, N. (Dec 13-17, 2021), Salt marsh response to rapid sea level rise after barrier breach, *AGU Fall Meeting*.

[12] *Poster*: McKeon, K., Allen, J., **Baranes, H.,** Boutt, D., Bowlick, F. J., Brown, L. L., Cooke, M. L., Fattaruso, L., Griswold, F., Hatch, C. E., Lehnigk, K., Sadai, S., Smith, R. A., & UMass Geosciences URGE Pod (Dec 13-17, 2021), Initiating new efforts to track and improve DEI within the Department of Geosciences at UMass Amherst, *AGU Fall Meeting*.

[11] *Talk:* **Baranes, H.**, Woodruff, J. D., Geyer, W. R., Yellen, B. C., & Richardson, J. B. (Nov 4, 2021), Mechanisms and timescales of sediment delivery to a New England salt marsh, *Coastal and Estuarine Research Federation Biennial Conference*.

[10] *Talk:* **Baranes, H.,** Woodruff, J. D., Talke, Kopp, R. E., S. A., Ray, R. D., & DeConto, R. M. (Feb 16-21, 2020), Tidally-driven interannual variation in extreme sea level probabilities in the Gulf of Maine, *AGU Ocean Sciences*.

[9] *Talk:* **Baranes, H.,** Woodruff, J. D., Talke, S. A., Ray, & R. D. (Mar 17-19, 2019), Interannual variation in extreme water level probabilities in the Gulf of Maine, *GSA Northeastern Section Annual Meeting*.

[8] *Talk:* Ladlow, C., Woodruff, J. D., Cook, T. L., **Baranes, H**., & Kanamaru, K. (Mar 17-19, 2019), A fluvially-derived flood deposit dating to the Kamikaze typhoons in Kawahara, Japan, *GSA NE Section Annual Meeting*.

[7] *Poster*: **Baranes, H.,** Woodruff, J. D., Talke, S. A., & Ray, R. D. (Dec 10-14, 2020), The influence of tidal variation on flood risk in the Gulf of Maine, *AGU Fall Meeting*.

[6] *Talk:* Ladlow, C., Woodruff, J. D., **Baranes, H**., Kanamaru, K., & Cook, T. L. (Dec 10-14, 2018), Evidence of fluvially-derived sediment during the Kamikaze typhoons near Nagasaki, Japan, *AGU Fall Meeting*.

[5] *Talk:* **Baranes, H.**, Woodruff, J. D., Loveless, J. P., & Hyodo, M. (May 20-24, 2018), Intersiesmic coupling-based earthquake and tsunami scenarios for the Nankai Trough, *Japan Geoscience Union Annual Meeting*.

[4] *Talk:* **Baranes, H.,** Woodruff, J. D. Loveless, J. P., Cheng, W., Weiss, R., & Kanamaru, K. (Dec 14-18, 2015), Using present-day patterns of interseismic coupling to model the C.E. 1707 Hōei earthquake and simulate tsunami inundation of Lake Ryuuoo, in the Bungo Channel, southwestern Japan, *AGU Fall Meeting*.

[3] *Talk:* **Baranes, H.,** Woodruff, J. D., Wallace, D. J., Kanamaru, K., & Cook, T. L. (Oct 19-22, 2014), Sedimentological records of the 1707 AD Hōei tsunami from the Bungo Channel, Japan, *GSA Annual Meeting*.

[2] *Talk:* **Baranes, H.,** Woodruff, J. D., Wallace, D. J., Kanamaru, K., & Cook, T. L. (Jul 28-Aug 1, 2014), A 1000-year sedimentary reconstruction of extreme coastal flooding for the Bungo Channel of Japan, *Asia Oceania Geosciences Society Annual Meeting*.

 Talk: Baranes, H., Woodruff, J. D., Wallace, D. J., Kanamaru, K., & Cook, T. L. (Mar 23-25, 2014), Sedimentological impacts of large scale inundation events: Records of tsunami and typhoon flooding from Lake Ryuuoo, Japan, GSA Northeastern Section Annual Meeting.