

CURRICULUM VITAE

Chuck Nittrouer

POSITION: Professor (emeritus starting 2020)
School of Oceanography
and Department of Earth and Space Sciences
University of Washington, Seattle, WA, USA

EDUCATION: PhD - 1978, University of Washington, Geological Oceanography
MS - 1974, University of Washington, Geological Oceanography
BA - 1972, Lafayette College, Geology (with honors)

EMPLOYMENT: 1998-present University of Washington, Seattle
1987-1998 Marine Sciences Research Center
State University of New York, Stony Brook
1978-1987 Marine, Earth & Atmospheric Sciences
North Carolina State University, Raleigh

HONORS: Fellow, American Geophysical Union
Fellow, Geological Society of America
Shepard Medal, SEPM Society for Sedimentary Geology
Distinguished Lecturer, NSF MARGINS

SOCIETIES: American Geophysical Union (Fellow)
American Society of Limnology and Oceanography
The Oceanography Society
Geological Society of America (Fellow)
International Association of Sedimentologists
Society for Sedimentary Geology (SEPM)
American Association of Petroleum Geologists

RESEARCH EXPERIENCE: Chuck's research interests include the modern and ancient formation of sedimentary strata in continental-margin environments, and the effects of physical and biological oceanic processes on sedimentary characteristics. He has made a career studying places where terrestrial sediment sources enter the ocean. These have included some of the biggest rivers (e.g., Amazon, Yangtze, Huanghe, Fly, Mekong, Ayeyarwady) and smaller systems (e.g., Po, Rhone, Sepik, Columbia, Eel, Copper, Skagit, Elwha), as well as tidewater glaciers entering southern- and northern-hemisphere oceans (e.g., Antarctica, Patagonia, Alaska).

SELECTED PUBLICATIONS (* = graduate mentee)

- Nittrouer, C.A., D.J. DeMaster, S.A. Kuehl, A.G. Figueiredo, R.W. Sternberg et al., Amazon sediment transport and accumulation along the continuum of mixed fluvial and marine processes, *Ann. Rev. Mar. Sci.*, 13, <https://doi.org/10.1146/annurev-marine-010816-060457> (2020).
- Nittrouer, C.A., J.C. Mullarney, M.A. Allison, and A.S. Ogston, Introduction to sedimentary processes building a tropical delta yesterday, today and tomorrow: the Mekong system. *Oceanography*, 30, 10-21, (2017).
- Eidam*, E.F., A.S. Ogston, C.A. Nittrouer, and J.A. Warrick, Tidally dominated sediment dispersal offshore of a small mountainous river: Elwha River, Washington State, *Cont. Shelf Res.*, 116, 136-148, [dx.doi.org/10.1016/j.csr.2016.01.009](https://doi.org/10.1016/j.csr.2016.01.009) (2016).
- Fricke*, A.T., B.A. Sheets, C.A. Nittrouer, M.A. Allison, and A.S. Ogston, An examination of Froude-supercritical flows and cyclic steps on a subaqueous lacustrine delta, Lake Chelan, WA, USA, *Jour. Sed. Res.*, 85, 754-767, doi: [dx.doi.org/10.2110/jsr.2015.48](https://doi.org/10.2110/jsr.2015.48) (2015).

- Nittrouer, C.A., B. Raubenheimer and R.A. Wheatcroft, Lessons learned from comparison of mesotidal sand- and mudflats, *Cont. Shelf Res.*, 33, dx.doi.org/10.1016/j.csr.2013.03.003 (2013).
- Boldt*, K.V., C.A. Nittrouer, B. Hallet, M.N. Koppes, B.K. Forrest, J.S. Wellner, and J.B. Anderson, Modern rates of glacial sediment accumulation along a 15° S-N transect: in fjords of the Antarctic Peninsula and southern Chile, *Jour. Geophys. Res. Earth Surface*, 118, 2072-2088, doi:10.1002/jgrf.20145 (2013).
- Webster*, K.L., A.S. Ogston and C.A. Nittrouer, Delivery, reworking and export of fine-grained sediment across the sandy Skagit River tidal flats, *Cont. Shelf Res.*, 33, dx.doi.org/10.1016/j.csr.2012.11.002 (2013).
- Hale*, R.P., C.A. Nittrouer, J.T. Liu, R.G. Keil and A.S. Ogston, Effects of a major typhoon on sediment accumulation in Fangliao submarine canyon, SW Taiwan, *Mar. Geol.* 326-328, 116-130, dx.doi.org/10.1016/j.margeo.2012.07.008 (2012).
- Bentley*, S.J. and C.A. Nittrouer, Accumulation and intense bioturbation of bioclastic muds along a carbonate-platform margin: Dry Tortugas, Florida, *Mar. Geol.*, 315-318, 44-57, doi:10.1016/j.margeo.2012.05.002 (2012).
- Aalto, R. and C.A. Nittrouer, ²¹⁰Pb geochronology of flood events in large tropical river systems, *Phil. Trans. Royal Soc.*, 370, 2040-2074, doi:10.1098/rsta.2011.0607 (2012).
- Walsh*, J.P. and C.A. Nittrouer, Understanding fine-grained river-sediment dispersal on continental margins, *Mar. Geol.*, 263, 34-45 (2009).
- Drexler*, T.M. and C.A. Nittrouer, Stratigraphic signatures due to flood deposition near the Rhône River, Gulf of Lions, northwest Mediterranean Sea, *Cont. Shelf Res.*, 28, 1877-1894 (2008).
- Martin*, D.P., C.A. Nittrouer, A.S. Ogston and J.S. Crockett*, Tidal and seasonal dynamics of a muddy inner-shelf environment, Gulf of Papua, *Jour. Geophys. Res.*, 113, F01S07, doi:10.1029/2006JF000681 (2008).
- Crockett*, J.S., C.A. Nittrouer, A.S. Ogston, D.F. Naar and B.T. Donohue, The origin, evolution and filling of exposed submarine valleys on the Fly River shelf, *Jour. Geophys. Res.*, 113, F01S12, doi:10.1029/2006JF000674 (2008).
- Nittrouer, C.A., J.A. Austin, M.E. Field, J.H. Kravitz, J.P.M. Syvitski and P.L. Wiberg, Writing a Rosetta stone: insights into continental-margin sedimentary processes and strata, in C.A. Nittrouer et al. (eds.) *Continental Margin Sedimentation: From Sediment Transport to Sequence Stratigraphy*, IAS Spec. Pub. 37, Blackwell Publishing, Oxford, 1-48 (2007).
- Palinkas*, C.L. and C.A. Nittrouer, Modern sediment accumulation on the Po shelf, Adriatic Sea, *Cont. Shelf Res.*, 27, 489-505 (2007).
- Mullenbach*, B.L. and C.A. Nittrouer, Decadal record of sediment export to the deep sea via the Eel Canyon, *Cont. Shelf Res.*, 26, 2157-2177 (2006).
- Parsons, J.D. and C.A. Nittrouer, Extreme events moving particulate material on continental margins, in A.R. Robinson and K.H. Brink (eds.) *The Sea*, v. 13, The Global Coastal Ocean: Multiscale Interdisciplinary Processes, 681-713 (2005).
- Jaeger*, J.M. and C.A. Nittrouer, Sediment deposition in an Alaskan fjord: controls on the formation and preservation of sedimentary structures in Icy Bay, *J. Sed. Res.*, 69, 1011-1026 (1999).
- Sommerfield*, C.K., C.A. Nittrouer and C.R. Alexander*, ⁷Be as a tracer of flood sedimentation on the northern California continental margin, *Cont. Shelf Res.*, 19, 335-361 (1999).
- Nittrouer, C.A., STRATAFORM: overview of its design and synthesis of its results, *Mar. Geol.*, 154, 3-12 (1999).
- Nittrouer, C.A. and D.J. DeMaster, The Amazon shelf setting -- tropical, energetic, and influenced by a large river, *Cont. Shelf Res.* 16, 553-574 (1996).
- Nittrouer, C.A. and L.D. Wright, Transport of particles across continental shelves, *Rev. Geophys.* 32, 85-113 (1994).