



Estuary and Salmon Restoration Program Learning Project Webinar

# Restoring Sediment Supply to Sustain Delta Marsh: Numerical modeling of sediment transport and flood exposure to support adaptive and resilient restoration investments, Nisqually River delta

Eric Grossman, United States Geological Survey



Tuesday, November 15<sup>th</sup>, 2022

2pm – 3pm

Zoom registration link:

[https://us06web.zoom.us/webinar/register/WN\\_Q7oHDhJ4Q8Wn9DKWaHSC3Q](https://us06web.zoom.us/webinar/register/WN_Q7oHDhJ4Q8Wn9DKWaHSC3Q)





# Restoring Sediment Supply to Sustain Delta Marsh: Numerical modeling of sediment transport and flood exposure to support adaptive and resilient restoration investments, Nisqually River delta

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**Dr. Eric Grossman** is a coastal and marine geologist with the U.S. Geological Survey Pacific Coastal and Marine Science Center who leads the USGS Coastal Habitats in Puget Sound Project and co-development of the USGS Coastal Storm Modeling System (CoSMoS). Eric's research and recent publications examines coastal geomorphologic and habitat response to climate and land use change with a focus on nearshore sediment dynamics and disturbance thresholds important to habitats that people depend upon. This talk summarizes an ESRP funded modeling and research project to assess the sediment budget of the Nisqually River delta, the sediment flux to recently restored marshes, and opportunities to recover additional sediment supply important to the resilience of the area's tidal marshes. The talk will also describe modeled changes in flood exposure expected with higher sea level and stream runoff in the 2040s and 2080s and evaluation of adaptive management strategies that support coordinated approaches to ecosystem restoration and flood management.

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