IDAWRA Brownbag Presentation: "Use of Acoustic Doppler Velocity Meters (ADVMs) to monitor sediment concentration."
Thursday, November 12, 2015, *11:30 -1 pm*
Speaker: Molly Wood, P.E., Hydraulic Engineer, U.S. Geological Survey Idaho Water Science Center
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"Elevated levels of fluvial sediment can reduce the biological productivity of aquatic systems, impair freshwater quality, decrease reservoir storage capacity, and decrease the capacity of hydraulic structures. The U.S. Environmental Protection Agency (2009) estimates that excessive sediment is the leading cause of water-quality impairment in water bodies in the United States. The need to measure fluvial sediment has led to the development of sediment surrogate technologies, particularly in locations where streamflow alone is not a good estimator of sediment load. Among the most promising techniques is the measurement of acoustic backscatter strength, similar to sonar, using acoustic Doppler velocity meters (ADVMs) deployed in rivers. Molly will present national research and advancements in using acoustic surrogate technologies to estimate sediment."

For more information:
Wood, M.S., and Teasdale, G.N., 2013, Use of surrogate technologies to estimate suspended sediment in the Clearwater River, Idaho, and Snake River, Washington, 2008–10: U.S. Geological Survey Scientific Investigations Report 2013-5052, 30 p.

Wood, M.S., 2014, Estimating suspended sediment in rivers using acoustic Doppler meters: U.S. Geological Survey Fact Sheet 2014-3038, 4 p.

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