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The Accelerator Mass Spectrometry Systems at the Woods Hole Oceanographic Institution

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The National Ocean Sciences Accelerator Mass Spectrometry (NOSAMS) facility at the Woods Hole Oceanographic Institution operates two accelerator systems. Both systems are used exclusively for $>14\text{C}$ AMS. The first system utilizes a 3 MV tandemron accelerator originally built by the US-AMS Corporation, with several recent upgrades. Most recently, this system was upgraded with a 134-sample gas-accepting, hybrid sputter Cs ion source (MC-SNICS) made by National Electrostatics Corporation (NEC). The other system is based on a 500 kV NEC Pelletron accelerator and incorporates both a 134-sample conventional graphite sputter source and a unique, gas-accepting, microwave ion source. Status and operational experiences with both accelerator systems will be presented.

Primary author: Dr ROBERTS, Mark L. (Woods Hole Oceanographic Institution)

Co-authors: Mr LONGWORTH, Brett E. (Woods Hole Oceanographic Institution); Mr HLAVENKA, Joshua D. (Woods Hole Oceanographic Institution); Mr BURTON, Joshua R. (Woods Hole Oceanographic Institution)

Presenter: Dr ROBERTS, Mark L. (Woods Hole Oceanographic Institution)

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