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Jim Moffett, USC, plans to determine copper on the GEOTRACES Section and characterize copper organic complexation. He will also collect samples for characterization of the composition of cyanobacterial communities in collaboration with Sallie W. Chisholm (MIT) and Eric Webb (USC). Characterization of speciation will be focused on the upper water column, in order to evaluate the importance of copper speciation as a determinant of cyanobacterial community structure across the section. That was established in the Sargasso Sea in an earlier Moffett-Chisholm collaboration that led to Elizabeth Mann's thesis. Data will also be used to investigate how speciation influences Cu concentrations in areas of boundary scavenging. Cyanobacterial data will also be incorporated into the overall synthesis of GEOTRACES data from the section, to evaluate the importance of other trace elements and synergistic relationships between copper and other metals.