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We will propose to provide shipboard trace elements for several of the GEOTRACES key parameters, namely dissolved Fe, Zn, Al and Mn. Shipboard determinations of these parameters will be conducted by the UH group (probably requiring two berths) using Flow Injection Analysis (FIA) methods that will require approximately 125ml of sample volume. We will collaborate with other groups who propose shorebased determination of these, and/or other parameters and will be willing to undertake acidification of samples collected for that group in our class 100 clean-bench. If available we will also make our 12-place rosette available as a back up for the GEOTRACES rosette.