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## The Deep Subsurface Biosphere at North Pond: A Mid-Atlantic Ridge Microbial Observatory

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The Integrated Ocean Drilling Program (IODP) proposal 677-Full "Microbiology of a Sediment Pond and the Underlying Young, Cold, Hydrologically Active Ridge Flank" (see http://www.whoi.edu/science/MCG/edwards/NorthPond/NorthPond.html for all documentation relating to IODP 677-Full) is actively engaged in the planning process for this deep-biosphere drilling leg, which will be scheduled for drilling in 2010. The drilling operations will include coring sediment and basalt and establishing the physical and technological framework for long-term manipulative experiments and measurements for this system. This will be accomplished by casing the borehole and deploying standard and novel instrumentation within two boreholes (CORK- II observatories). Plans for North Pond will be discussed against the backdrop of deep-biosphere achievements that have been made in the past decade, and those that have been made in the field of ocean crust hydrological research – the confluence of our knowledge based on experiences in this two areas sets the stage for North Pond, which we hope will serve as a model for deep biosphere research into the next decade.