

## **CMORE RNA and DNA Archive.**

**Goal:** The goal of this effort is to provide a time series collection of planktonic microbial DNA and RNA depth profiles from the HOT station, for CMORE research. DNA and RNA samples will be available for CMORE researchers to conduct and coordinate taxonomic and functional gene studies, for example using PCR and RT-PCR methods. Where possible, metagenomic datasets will be generated by pyrosequencing for selected profiles, and posted for downloading the blast searching on the MIT-CMORE server (<http://genesis2.mit.edu/>).

**Activity :** Collect microbial cell fraction (1.6um prefiltered, >0.22um) from HOT hydrocasts, and extract nucleic acids, for RNA and DNA for downstream analyses by CMORE investigators. Collection depths are 25m, 45m, 75m, 125m, 200m, 500m, 770m and 1000m. Extracted DNA samples will be available for distribution, and details will be posted and updated on the CMORE website.