

Fall 2001 Archaeological Plan*

Objectives: Archaeological plans for the October 2001 expedition will focus on expanding the results from the 1999 magnetic gradiometer survey (the Schonstadt Model GUA-30 Underwater Magnetic Locator is provided by Surface Interval Dive Company). Re-contouring of the data has revealed several anomalies that warrant further investigation. For these areas survey procedure will involve independent, intensive magnetic recordation using smaller grids and tighter lane spacing. This will provide greater overlap and precision to further isolate and define magnetic sources and their signatures. It will also allow researchers to examine the site margins to better identify small artifact distribution, as well as the 2000 excavation and recovery locations to record changes in magneticities. Secondary objectives will include:

1. Mapping newly exposed features and the datum stake, and checking major features on the site plan
2. Placing new marker tags on all exposed cannons and anchors
3. Record elevations on major features
4. Close down site for the winter

Survey Procedure: The survey will be conducted from R/V *Snapdragon*, where gradiometer technicians will record a numerical reading at each sensor location on a laptop computer in Microsoft Excel. Once areas are surveyed, archaeologists will process data and generate magnetic contour maps. These will be integrated into the existing GIS database and compared to other data for further interpretation. Teams of divers, consisting of an archaeologist and an assistant, will conduct the two phases of the gradiometer survey. Diving operations will commence from NC Marine Fisheries Parker. The first will establish and mark survey areas with stakes, lines, and a grid frame. The second team will conduct the survey by moving the sensor to prearranged positions, backing away while the reading is taken, and then moving the sensor to the next position and so on.

Survey Schedule: The expedition will be conducted in coordination with *DIVELIVE* and will take place October 1-3, 2001. In case of bad weather, fieldwork may be rescheduled for October 4-5.

- **Monday:** Prepare site by installing buoys, guidelines, and survey areas. Move warning buoy. Configure and checkout gradiometer equipment, and begin surveys.
- **Tuesday:** Continue surveys. Site mapping, feature tagging, and other objectives are undertaken as time and personnel permit.
- **Wednesday:** Complete surveys, remove site buoys, and prepare site for winter.

* Prepared by Mike Plakos, Field Supervisor