

### APPENDIX III SITE SURVEYS

Areas of interest selected for Leg 5 by the JOIDES Pacific Advisory Panel were surveyed by the *R/V Argo* on Expedition SCAN of Scripps Institution of Oceanography. The surveys were conducted in order that the drill sites could be located to provide the optimum conditions for the *Glomar Challenger* to achieve the proposed drilling objectives. On completion of the drilling, the survey information forms the basic framework for regional interpretations of the core material.

The chart shows the location of the SCAN surveys and the corresponding *Glomar Challenger* drill site numbers. SCAN sites started with Number 1, which corresponds to *Glomar Challenger* Site 32, because the *Glomar Challenger* site numbers could not be anticipated at the time the surveys were conducted. The following table relates SCAN survey site numbers with the drilled site numbers of the *Glomar Challenger*.

SCAN	<i>Glomar Challenger</i>
1	32
2	33
3	34
4	35
5	36
6	37
Not surveyed	38
7	39
8	Not drilled

SCAN	<i>Glomar Challenger</i>
9	40, 41
10	42
Not surveyed	43

A summary of the data gathered at each site is presented in this Appendix. Data from SCAN Site 8, which was not drilled, are not included. *Glomar Challenger* Sites 38 and 43 were not proposed by the Panel, but were drilled as a shipboard decision and, therefore, were not included in the survey program.

A survey is divided into two parts: an underway grid survey, 40 miles square with tracks parallel and perpendicular at 10 mile spacing, and a site at the most suitable drilling location. The vessel was equipped with a satellite navigation system and Loran C. The satellite system was not operative during the entire surveying program for Leg 5. The underway survey was conducted utilizing a reflector profiler, 12.5 kHz echo sounder, 3.5 kHz echo sounder and magnetometer. On site, a piston core and bottom photographs were taken along with a heat flow measurement.

The first leg of SCAN was conducted by T. Edgar (Site 1) and G. Moore (Sites 2-7). The second leg was under the direction of G. Shor (Sites 9 and 10). The cooperation of all the shipboard staff, particularly Captain A. Finney, F. Dixon and P. Liebertz is gratefully recognized. Assistance in the preparation of the data was provided by A. Raff, S. Smith, G. Sharman, P. Thompson and R. Iulucci.

