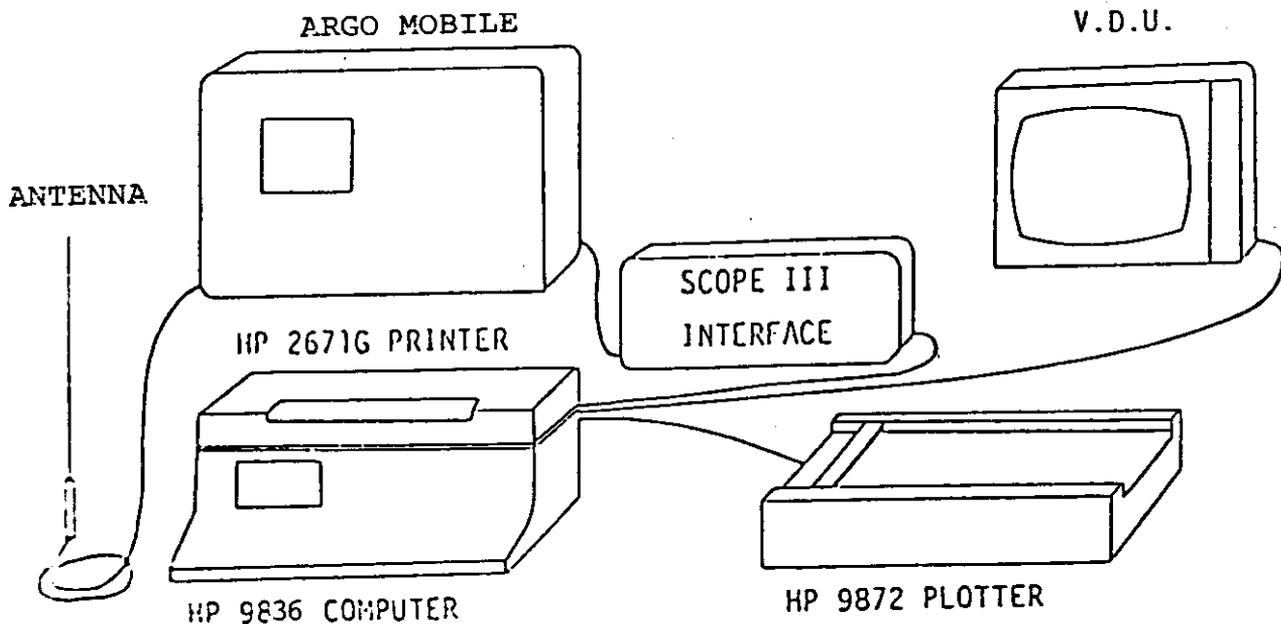


4. SURVEY METHODS AND PROCEDURES (Cont'd)4.4 Navigation Tracking System

The ARGO system was linked to a Scope 26 navigation system. This comprised a Hewlett-Packard 9836 computer, HP 9872 plotter, HP 2671G printer, Scope III interfacing unit and two (2) remote monitors (V.D.U.'s). The system was set up for normal operation as illustrated below:-



Data from the base stations is received by the micro-processor - controlled Scope III interface and held there until required by the computer. At intervals of about 0.05 seconds, the computer takes the formatted ranges from the Scope III buffer and computes a three-way fix of the position of the mobile antenna. This information can then be used in a variety of ways - to calculate the ship's current position with respect to a pre-set line, to drive a plotter, and to produce a helmsman's display of the vessel's track. The HP 2671G printer provides a hard copy of all data in real time.