

# LIVERPOOL

## Appendix to ROSCOP FORM

### RRS Shackleton Cruise 7/82

A track chart showing the ships track and station positions in the principal working area, viz. the Eastern Irish Sea, is attached. Four stations were occupied in St. Georges Channel en route to Barry. Only one of these is shown.

A preliminary scientific report should be available by December 1982.

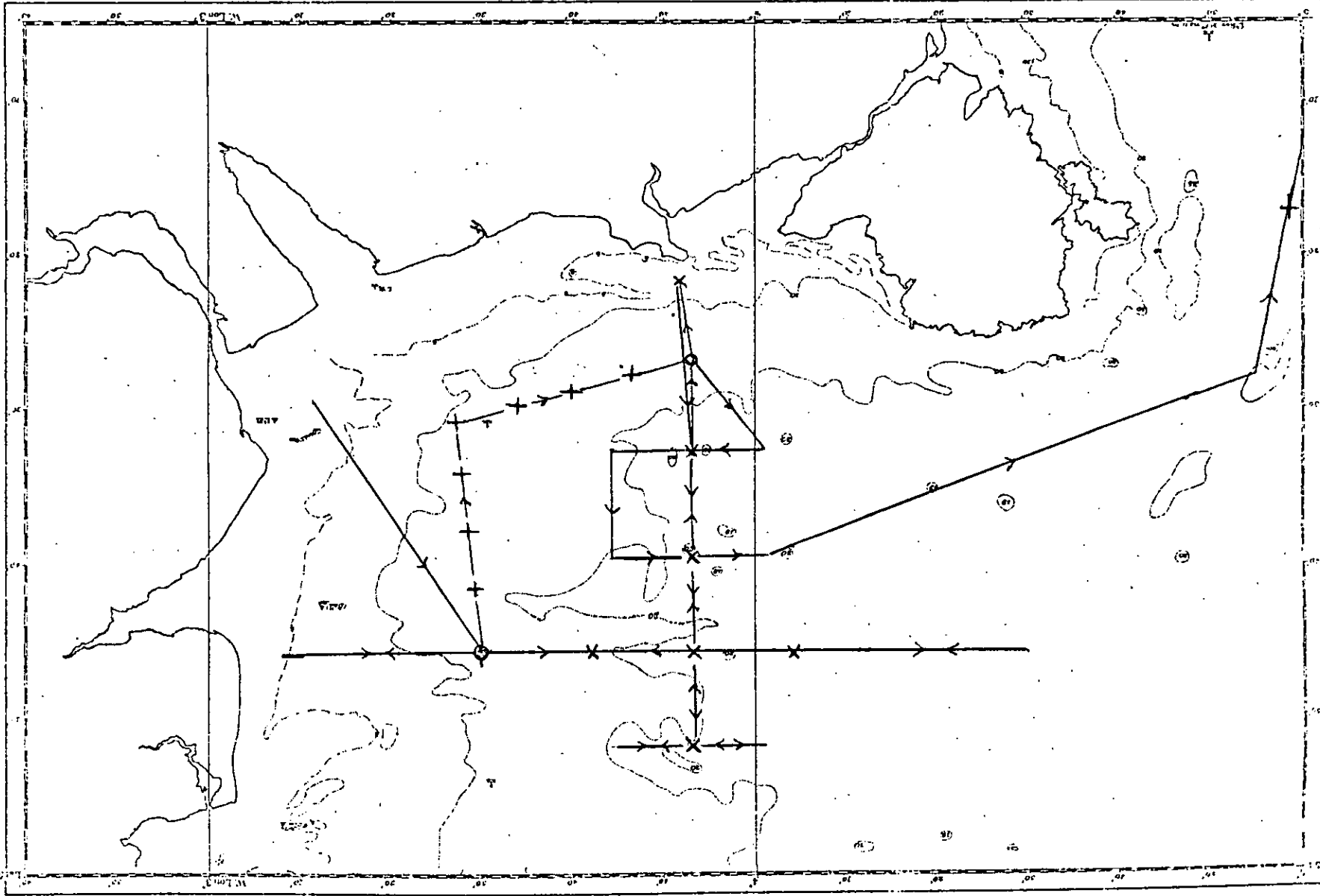
The principal objective of the cruise was to obtain further measurements of bottom boundary layer velocity turbulence at a number of stations and throughout the tidal cycle. To this purpose a total of 36 turbulence rig deployments were made, of up to nearly 5 hours duration. Most of these deployments were in greater water depths than we had previously been able to work in, although only a small number of records from the acceleration stage of the tidal streams were obtained. In support of the turbulence measurements, two Aanderaa current meter moorings were deployed, each of 5 days duration; and echo sounding runs were made along the two lines of turbulence stations and in the direction of the main tidal streams at each station.

Twenty-two hydrographic stations were occupied, including each turbulence station, at which CTD profiles and water samples for Hg and ADP analysis were taken. Some water samples for trace metal analysis were taken well clear of the ship by hand from a rubber 'Z' boat.

Throughout the cruise filtered air samples were taken for the analysis of atmospheric particulate concentrations and general geochemistry, and for elemental metal concentrations.

One hydrographic station which was to have been occupied near St. Davids Head was omitted because of trouble with the ships main engine. Otherwise, the cruise objectives were achieved to a satisfactory degree.

MIAS 9780



TRACK CHART SHACKLETON CRUISE 7/82