

(b) At Station #49 a subsurface current meter array was deployed. The location was determined by bathymetry readings on several passes over the area. The array consisted of a 2000 lb. concrete sinker, acoustic release, current meter and several subsurface floats. A strobe unit and radio transmitter were fixed on the topmost float. The position of the array was determined by several means:

NAVSAT 120512Z 71-14.7967N, 158-58.8261W
Loran C 120512Z 45281.8 mz, SH-7;17580.7 mx, SH-7
Radar 120500Z 71-14.5N, 159-03W

A 1000 foot tag line was also attached to the concrete sinker to provide a backup means of recovery.

(c) Bird and Mammal observations for the Smithsonian were carried out from one to four hours daily depending upon the weather. Six sea bird specimens were also collected and frozen for shipment to the Smithsonian.

(6) Phase III. (Dr. Chiburis, UofConnecticut).

(a) It was intended to record the gravity anomalies along tracklines extending NNE from Pt. Barrow to 142W Longitude. Approximate Trackspacing of 20 miles was used. Penetrations to 72N Latitude were expected on the first two or three tracks and one northward penetration was attempted beyond 72N but SAR case time limitations forced an early abandonment of the proposed tracks.

(b) STATEN ISLAND was ordered to proceed to the vicinity of Baillie Island, Canada to assist the resupply of the DEW-Line sites. This necessitated the postponement of the program north of Barrow. However, new and valuable data were collected along the path of the ship between Barrow and Baillie Island. A second assistance request necessitated a return trip in September to the vicinity of Cape Parry. Upon return to the North Slope, STATEN ISLAND was able to provide satisfactory coverage of the intended area north and east of Pt. Barrow.

(c) A contingency program for the UofAlaska was also performed by STATEN ISLAND during this phase. Biological samples of zooplankton and phytoplakton were collected at 23 stations approximating the positions occupied by the WEBSEC operation in 1973.

(7) Phase IV (Dr. Feldman, UofWashington, Applied Physics Lab). 17 stations were occupied by STATEN ISLAND off of Wainwright, Alaska and Point Barrow in two lines approximately perpendicular to the coastline (NW).