

5. Science.

Meteorology/Oceanography

(1) Pre-deployment preparations. Prior to departure on AWS-74, the AN/SMQ-1 Radiosonde recorder, Alden Marine Facsimile Model 510 and the XBT Recorder were thoroughly tested by STATEN ISLAND's electronic personnel and remained operational throughout the cruise. Close liaison with Seattle's Port Meteorological Supervisor, a representative of ESSA, provided numerous small item consumables. The T-4 XBT probes were obtained from FLENUMWEAFAC, Monterey, California. Additional supplies, charts, forms, etc., were on board as remnants from previous deployments.

(2) Shipboard Program and Statistics.

(a) The following table describes the shipboard programs that were carried out independently of any specifically assigned mission.

<u>Program Title</u>	<u>Freq. of Observations</u>	<u>Total</u>	<u>Remarks</u>
Synoptic weather observations	6 hourly	226	See <u>1</u> below
Ice observations/reports	6 hourly	128	See <u>2</u> below
Radiosonde Observations	00 & 12Z daily	13	See <u>3</u> below
Bathythermograph observations	6 hourly	38	See <u>4</u> below

1 Six-hourly synoptic weather observations were taken in accordance with COMDTINST 3140.2A, NAVWEA-SERVCOMINST 3140.1A and CCGDSEVENTEEN OPLAN No. 1-74. Weather observations were taken hourly in support of local ship and helo operations.

2 Ice observations were taken in accordance with CCGDSEVENTEEN OPLAN No. 1-74 with hourly observations taken whenever significant changes in ice form or concentration were evident.

3 Radiosonde observations were taken in accordance with instructions contained in Federal Meteorological Handbook #3 and CCGDSEVENTEEN OPLAN No. 1-74. On 15 September, COMDT discontinued STATEN ISLAND's upper air observational requirement.

4 Bathythermograph observations were taken in accordance with COMDT INST 3161.1C using the Expendable Bathythermograph System.

(b) General remarks.

1 Facsimile reception was generally good to excellent except during periods of poor communications.