

APPENDIX "3"

DEPARTMENT OF MINES AND TECHNICAL SURVEYS

SEA-ICE SURVEYS

The Sea-ice Surveys—Canada

The Geographical Branch of the Department of Mines and Technical Surveys has conducted no aerial ice surveys over the Great Lakes.

Aerial sea-ice surveys were conducted each year in winter over the St. Lawrence River from 1959 to 1964, except 1963. Surveys were conducted over the Gulf of St. Lawrence from 1956 to 1964, except 1963. These surveys were terminated in 1964 as the Meteorological Branch had assumed the entire operation of providing both tactical and synoptic ice surveys.

Aerial ice surveys began in the High Arctic (Queen Elizabeth Islands region) in the summer of 1961, in conjunction with the Polar Continental Shelf Project; sea-ice mapping is in progress at the present time in this area.

The Meteorological Branch, Department of Transport, is responsible for all sea-ice survey in Canadian waters with the exception of the Geographical Branch/Polar Continental Shelf Project work mentioned above which is of an experimental nature.

International Sea-Ice Activities

The U.S.S.R. conducts both synoptic and tactical sea-ice surveys on its Arctic waters and the Baltic.

Denmark conducts ice surveys in Greenland waters, and the United States conducts ice surveys from Newfoundland to Thule (Greenland) and Alaskan waters. Presumably, Norway, Sweden, Finland and West Germany conduct tactical surveys in the Baltic in support of their shipping. Japan has conducted surveys off its northwest coast.