

JUN - 3 1974

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# Canada Weekly

Volume 2, No. 22

May 29, 1974



Ottawa, Canada.

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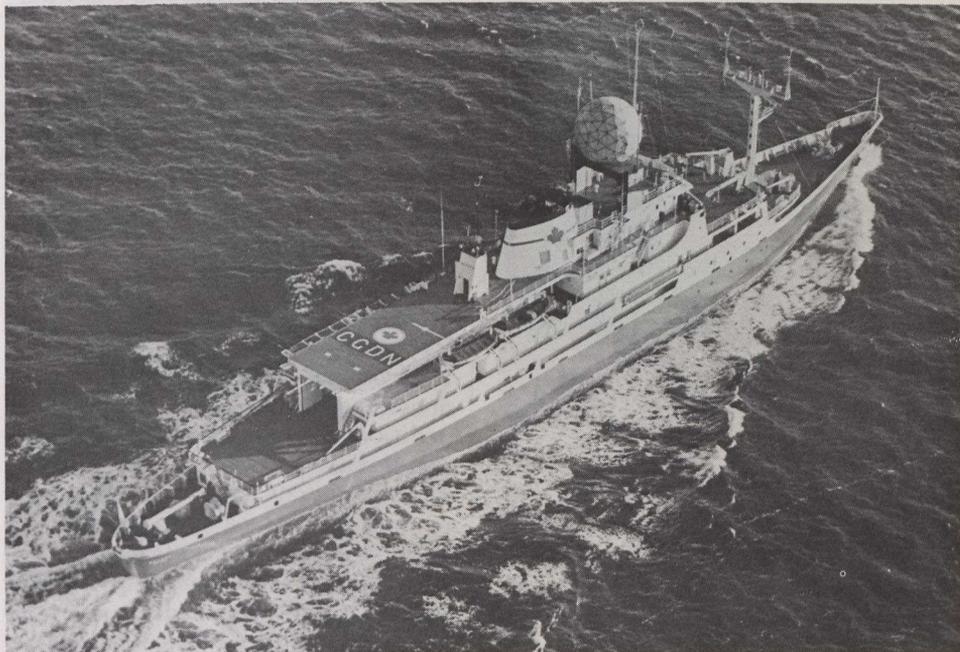
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## Canada's key role in international weather experiment



Canadian Coast Guard Ship *Quadra* has been specially equipped for the Global Atmospheric Research Program's GATE

project, which takes place in the Atlantic Ocean this summer. She sailed from Canada on May 17.

Specially equipped with computers, radar and some of the world's most sophisticated meteorological devices, the Canadian weather ship *Quadra* sailed from Victoria, British Columbia, on May 17, to join the largest international weather study ever attempted.

*Quadra*, her crew augmented by more than 30 scientists and technicians, will play a major part in the GARP Atlantic Tropical Experiment, generally referred to as GATE. GARP stands for Global Atmospheric Research Program, which is a joint venture of the World Meteorological Organization and the International Council of Scientific Unions.

The GATE project is the first major observational experiment in the Global Atmospheric Research Program, whose primary object is to extend the range and accuracy of weather forecasts. With the use of computers and mathematical models, scientists hope that the data obtained from GATE and other world-wide studies will enable them to predict the weather up to 15 days in advance and possibly forecast

weather trends several years ahead.

Canada is one of 11 nations taking part in GATE which gets under way in mid-June in the equatorial Atlantic Ocean and continues until late September. Other participating countries are Brazil, Britain, East Germany, France, Mexico, the Netherlands, Portugal, the United States, the Soviet Union and West Germany.

An armada of 36 research vessels will amass a vast accumulation of data at pre-arranged stations extending 2,400 miles across the Atlantic equatorial belt from Barbados to West Africa. Other observations will be made by land stations, aircraft and a geostationary satellite. *Quadra* will be one of seven key ships stationed in the core area 600 miles southwest of Dakar, Senegal, which will serve as headquarters for the entire operation.

### Special equipment

The Canadian vessel has on board what is probably the most powerful rain-detecting radar equipment in the