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## SHIPS and WATERFRONT

New Lighthouse Tender On  
Trials Next Week—Tourist  
Ships In

Wednesday of next week has been set as the date for the trial runs at Vancouver of the new diesel-powered lighthouse tender Alexander Mackenzie for service out of Prince Rupert. N. A. Beketov, local agent for the Department of Transport, will leave next Sunday night on the Camosun for Vancouver to take part in the trials and will come back on the Alexander Mackenzie. Capt. Norman McKay, now of the Birnie, will leave next Monday by air for Vancouver to take over command of the new vessel. The Mackenzie will leave Vancouver about a week after her trials for her home port here and will come up the coast in leisurely stages, visiting lighthouses along the way.

Her full passenger list of 107 persons including a Christian Fellowship Tour Party, Union steamer Chilcotin, Capt. Harry McLean, was in port today bound for Skagway and other Alaska points in the course of one of her regular cruise voyages. She arrived at 9 a.m. and sailed for the north at noon. She is due back next Monday evening south-bound. The Christian Fellowship party originated in Chicago and includes people of the Baptist, Congregationalists, Presbyterian, Mennonite and Methodist denominations.

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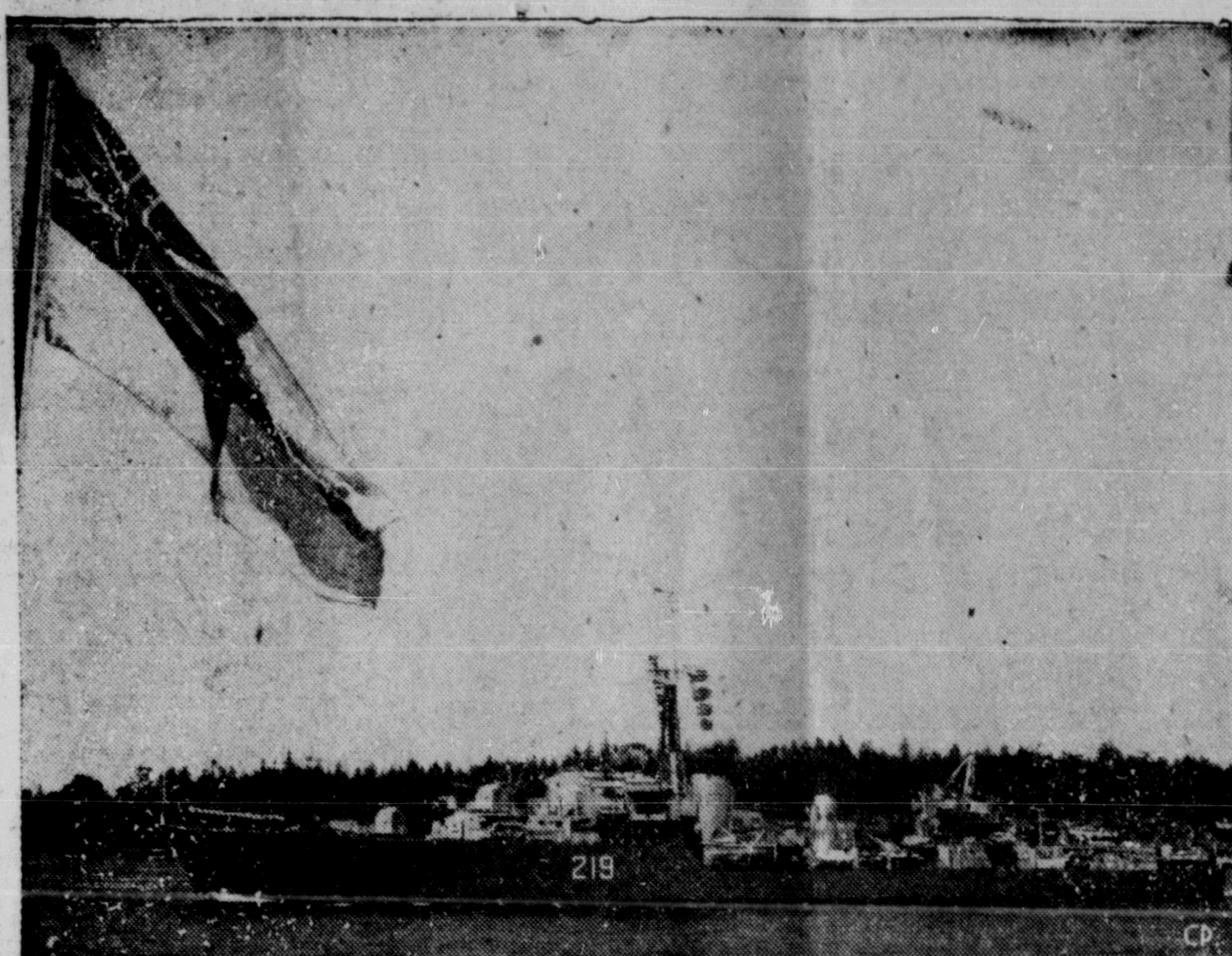
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HEADS FOR HAWAII — Pictured under the White Ensign, H.M.C.S. Athabasca sails from Esquimalt harbor for Pearl Harbor where she and her sister ships the destroyers Cayuga and Sioux will await orders from the United Nations which may send them into action in the Korean region. The Royal Canadian Navy photo shows the destroyer as it set sail. (CP Photo)

### Weather Experts Pin-Point Probs

(This is the second of a series  
of three stories on the work of  
the Federal Government's public  
weather offices).

By CAMERON JONES  
Canadian Press Staff Writer

TORONTO—A belief persists among Canadians that weather forecasts aren't as accurate now as they used to be. Officials of the Meteorological Division of the Department of Transport say they are aware of the feeling. And they add that there's a logical explanation for complaints about their forecasts.

The explanation is linked with the expansion in the public weather service since the Second World War. Before the war, forecasts were phrased in general terms and covered areas as large as half a province. Now they are more specific and sometimes cover areas no larger than a few square miles.

"The weatherman sticks his neck out every time he issues a forecast," says P. D. McTaggart-Cowan, of Toronto, assistant controller of the Meteorological Division. "Today we forecast temperatures within a degree and predict rain for an area no larger than Toronto. There's nothing quite so wrong as the weather. When you call it close you're bound to be wrong occasionally."

Mr. McTaggart-Cowan says people are inclined to remember the mistakes and forget "the 99-per-cent or more of the time we forecast correctly."

A lot of training and experience goes into making a weather forecast.

Four times a day, seven days a week, 52 weeks a year, men step out of more than 1,000 reporting stations which dot Canada's 3,500,000 square miles and record the state of the weather.

In a few minutes their findings are speeding over 21,000 miles of teletype lines to clatter a cryptic series of figures on the teleprinters in public weather

offices in Vancouver, Edmonton, Winnipeg, Toronto, Montreal, Halifax and Gander, Nfld. In some outlying posts, observations are telephoned or telegraphed to the nearest transmission point on the teletype hook-up. Reports are received from ships hundreds of miles off shore in the Atlantic or Pacific oceans.

As the reports appear on the teleprinter in each of the seven public weather offices, an observer seated before a blank map begins to plot the coded reports. At the end of an hour the map is covered with a mass of figures and symbols — the " shorthand " from which the forecast is finally made.

#### MASTER OF PHYSICS

When the map is completed, the forecaster—usually a master of arts in physics—takes the map from the plotter. With deft pencil movements he traces in lines joining points of equal pressure. These curves which show the general pattern of high and low pressure are known as isobars.

From a study of these isobars he locates the fronts — the boundaries of various air masses on the map. Highs and lows are labelled, areas of rainfall shaded in and other notations made. About an hour after receiving the map the forecaster is about ready to forecast.

Before he begins, he must consult previous maps which tell him how fast and far the main pressure systems have moved during the last six, 12 or 24 hours. Is the air warmer or colder? Is it more, or less, moist? How is the air behaving? A 20,000 feet?

His final move is to draw a prognostic chart—a map which indicates what the weather picture will look like at a given time in the future. Fronts are drawn in, so are isobars. Eventually a complete weather map begins to emerge—a map of the weather future of all North America.

Accuracy of this map depends largely on the skill of the weather forecaster and the



#### SURVIVED MARCH WITH ANDERS ARMY

Safe in Canada after 10 years of wandering through Europe, Stanislaw Swast, the last of the Polish refugee children brought here through the work of Canadian Catholic Immigrant Aid society. Taken to Russia from his homeland at the beginning of the war, Stanislaw was one of the hundreds of children released to go with Gen. Anders' army into Persia in 1942. Scared died from malnutrition and exposure, others were taken back to Poland, but constant effort on the part of the society effected Stanislaw's admission to Canada.

period it covers. On short range forecasts he is right more than 90 per cent of the time; over longer periods his accuracy diminishes until at the end of a three-day period his forecast is little better than a scientifically-weighted guess.

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WEDNESDAY—P.M.

4:00—Jimmy Shields  
4:15—Stock Quotations and Interlude  
4:30—Favorite Stories  
4:45—Lone Pine Show  
5:00—Rendezvous Room  
5:30—Music by Martin  
5:45—Something in Harmony  
5:55—CBC News  
6:00—Supper Serenade  
6:15—Tex Beneke and His Orch.  
6:30—Musical Varieties  
7:30—Recital—Jeanne Des Jardine, Sop.  
7:00—CBC News  
7:15—CBC News Roundup  
7:30—Ria Lenssens—Mezzo-Soprano.  
8:00—Glasgow Orpheus Choir  
8:30—The Well of English The Village Wooling  
9:00—The Fliver and the Glory  
10:00—CBC News  
10:10—CBC News  
10:15—Talk—Supplement  
10:30—Piano Playhouse  
11:00—Weather Report  
11:04—Fish Arrivals  
11:06—Sign Off

THURSDAY—A.M.

7:00—Musical Clock  
8:00—CBC News  
8:10—Here's Bill Good  
8:15—Morning Song  
8:30—Music for Moderns  
8:45—Little Concert  
9:00—BBC News and Com'ty  
9:15—Morning Devotions  
9:30—Sunrise Serenade  
9:45—Famous Voices  
9:59—Time Sign.  
10:00—Morning Visit.  
10:15—Morning Melodies  
10:30—Melody Time  
10:45—Invitation to the Waltz  
11:00—A Man and his Music  
11:15—Roundup Time  
11:30—Weather Report  
11:31—Message Period  
11:33—Recorded Interlude  
11:45—Scandinavian Melodies  
12:00—Mid-Day Melody

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