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1959 FEDERAL MAPPING AND CHARTING PROGRAM

More than a thousand men comprising 81 individual field survey parties will conduct the annual mapping and charting program this year for the Surveys and Mapping Branch of the Department of Mines and Technical Surveys.

The program, which now is getting under way and will continue through November, will take survey parties to all ten Canadian provinces as well as into Yukon, Northwest Territories and in navigable coastal and inland waters. Included in the field survey force will be 28 units of the Canadian Hydrographic Service.

In announcing the program, Mines Minister Paul Comtois stated that, following the trend of recent years, increasing emphasis is being placed on the development of Canada's northland.

Essential for the production of base maps and charts, the overall program has a twofold objective. Its long-range purpose is to provide Dominion-wide coverage in base maps and charts at various scales; and the short-range objective is to stress work in areas of potential resources development, minerals, water power, forestry and other such potentialities.

Defence needs also constitute a factor in the mapping and charting program.

Phases of the work range from true exploration and research by the Polar Continental Shelf party in the western Arctic to small mobile parties checking new topographical features in long-settled areas of southern Canada.

A topographical survey party using helicopters will extend surveys for mapping the mineral-rich areas of Labrador. Another helicopter party will conduct similar work in the central part of New Quebec.

A hydrographic party aboard a chartered sealer will chart areas along the Labrador coast and also the east coast of Hudson Bay. Later in the season the ship will push her way through the huge rafts of Polar ice that clog the waters of Foxe Basin within the Arctic Circle so that the work parties can carry out charting in those regions.

The survey force will be comprised of 185 field officers, who will be assisted by about 170 university students, together with crews for ships and supporting aircraft, laborers, cooks and other summer help.

Full use will be made of modern transport and technical equipment. This includes fixed and rotary winged aircraft, bunk and kitchen trailers, electronic measuring and positioning devices, the latest type of transits, radar altimeters, etc.

Details of the field work follow:

DETAILS OF MAPPING PROGRAM FOR 1959

NORTHWEST TERRITORIES

Canadian Hydrographic Service

The C.G.S. "Baffin", with D.A'H. Charles as officer-in-charge, will continue off-shore sounding in Nova Scotia waters, but as soon as ice conditions permit she will proceed north to Hudson Strait. There she will carry out a "Decca"-controlled survey and probably establish a shore party in the area to obtain inshore soundings.

The chartered sealer, M.V. "Algerine" under D.D. LeLievre, after continuing work at Quirpon, Newfoundland, will carry out a standard charting operation in the headwaters of Frobisher Bay.

Another chartered sealer with M. Bolton in charge, after spending the early part of the season on work along the Labrador Coast, will proceed through Hudson Strait to Povungnituk on the eastern side of Hudson Bay. Later when ice conditions improve further, this vessel will make her way to Fury and Hecla Strait, where more charting will take place.

Small hydrographic parties will be assigned to each of the Department of Transport icebreakers, "D'Iberville" and "C.D. Howe", on their annual eastern Arctic patrol in the Arctic Islands. They will secure track soundings enroute and harbour information at the many outposts the ships will visit.

A.R. Rogers will head a party on the launch "Rae", which will gather hydrographic information for the Mackenzie River charts from Great Slave Lake to Fort Providence. He will also carry out a survey assignment at the Ramparts.

T.D. McCulloch will head a two-man party that will be aboard the U.S.C.G.S. "Storis" engaged on reconnaissance surveys in the western Arctic.

The chartered ship "Theta", with W.I. Farquharson in charge, will work on current and oceanographic surveys in Hudson Strait after doing similar work in Cabot Strait.

G. Dohler will be in charge of establishing, reconstruction and inspecting inland water level gauges on Great Slave Lake.

A field party under B.D. Seed will install tide-gauges at Tuktoyaktuk, Alert, Frobisher and will also inspect gauges at Resolute, Brevoort Harbour and western Arctic DEW line sites.

Legal Surveys

A six-man party will undertake sub-division and lot surveying in the Mackenzie River and Great Slave Lake region. R.G. Snowling will be in charge.

Geodetic Surveys

An 18-man triangulation party headed by M. Duval will be engaged on work in the Hay River area of the Northwest Territories.

An astronomy and base-line party of five men will work under H.E. Jones with the geodimeter in the N.W.T. as well as in Labrador and Manitoba. The geodimeter measures distances by using speed of light principles.

A two-man party under P. Backhouse will also be engaged on astronomic observations in the Hay River area.

YUKON

Topographic Survey

A level party of four men under H.A. Munroe will work in the Pelly River area.

Legal Surveys

R.T. McCurdy will head a nine-man sub-division and road right-of-way party in Yukon, including the areas of Whitehorse, Haines Junction, Teslin and McCabe.

BRITISH COLUMBIA

Topographical Survey

Three mountain photo-topography, six-man parties will operate in southern British Columbia. They will be in the charge of L.E. Pelton, J.R. Gauthier and R. Chewpa and will work in the Windermere; Grand Forks - Castlegar; and Nelson - Creston areas respectively.

Geodetic Survey

N.H. Frost will head a six-man party in the Kamloops to Merritt, Vernon to Needles and Hope areas. It will do levelling to establish vertical control.

Legal Surveys

A resurvey of Cowichan Reserve on Vancouver Island will be undertaken by a six-man party under I.M.D. Fox.

M.H. Collins will head a six-man party which will survey the coastal area north of Vancouver and also do survey work on five Indian reservations.

A boundary and Indian reservation survey party of five men under D.H. Browne is scheduled to work in the lower Fraser Valley.

Canadian Hydrographic Service

The C.G.S. "Wm. J. Stewart" under G.W. LaCroix will do charting in the vicinity of Active Pass, Hecate Strait and Queen Charlotte Sound. The ship will operate with Decca-positioning equipment.

R.W. Sandilands, in charge of the C.G.S. "Marabell", will carry out hydrographic surveys at Seymour Inlet, Port Alberni and off the east coast of Moresby Island.

A Gulf Islands current survey will be carried out by the C.G.S. "Parry" under W.S. Huggett.

T.D. McCulloch, operating with the launch "Curlew", will engage on charting at Saltspring and Pender Islands.

ALBERTA

Topographic Survey

Two mapping parties, one in southeastern and one in central Alberta, will operate under R. Forgues and L. Chouinard. Both are eight-man parties and their work will be of interest to the oil industry.

A two-man interpretation party under M.E. Nidd will work in the Peace River area.

Geodetic Survey

Thirteen men headed by L.P. Robertson will comprise a levelling party in central Alberta in the Nordegg to Coleman and Foothills areas. Like the other Geodetic Survey levelling teams, this will be a double party of two units which will sometimes be working long distances from each other.

Legal Surveys

M. Wuhr will head a five-man sub-division and boundary survey party that will operate in the Banff area.

SASKATCHEWAN

Topographic Survey

Four eight-man field parties will be engaged on mapping at the scale of 1 to 50,000 across the plains of Saskatchewan. They will be headed by J. Boudreault, J.V. Brown, R.I. Emmett and F.A. Whitteker and will operate in the Swift Current, Kelvington, Biggar and Melville areas respectively.

J.B. Boyd will head a five-man traverse party that will operate in the Lac la Ronge district. A four-man traverse party under R.H. McDowell will be engaged on control survey work across the Province.

Geodetic Survey

A triangulation party of 16 men will work under K. Gysler in the Reindeer Lake area of northern Saskatchewan.

P. Backhouse will do astronomy and base-line work. His two-man party will establish astronomical positions in the Reindeer Lake and Prince Albert regions.

Legal Surveys

P.S. Timoschuk will head an eight-man party who will engage on boundary and sub-division surveys in the Nora, Cumberland House and Carrot River areas.

MANITOBA

Canadian Hydrographic Service

The launch "Sandpiper", with L. Hunter in charge, will do charting in Lake Winnipeg. The work will be primarily of interest to the fishing industry.

Topographic Survey

General mapping work on the scale of 1 to 250,000 will be carried out in the Lynn Lake to Churchill area of northern Manitoba. The party will use helicopters and will consist of 20 men headed by G.M. Armstrong.

An eight-man party under D.A. MacKay will map the region of the south end of Lake Winnipeg and also around Swan Lake for the 1 to 50,000 scale map series.

C.R. Coldwell will head a five-man party on a traverse around the northern half of Lake Winnipeg.

Geodetic Survey

Two triangulation parties will be engaged in the Winnipeg-Brandon area. G.L. Fraser will head a 16-man party and R. Healey will be in charge of a three-man team.

H.E. Jones and his five-man party will spend part of their season in the areas of Winnipeg and Brandon. They will do base line measurements and will use the geodimeter.

The two-man party under P. Backhouse will take astronomical observations in the Winnipeg and Brandon regions.

Legal Surveys

R.H. Adams's six-man party will be engaged on boundary and resurvey work in the Pine Falls and The Pas areas.

ONTARIO

Topographic Survey

Two five-man levelling parties headed by R.J. Thibault and E. Schneller will work in the Winisk River area of northern Ontario.

W.L. MacLellan will head a five-man party who will carry out traverse work in the Hearst, Franz and Manitou areas, north of Lake Superior.

Canadian Hydrographic Service

The launch "Bayfield" will be engaged on charting operations in Georgian Bay in the vicinities of Parry Sound and Squaw Island.

L.D. Quick, in charge of the launch "Boulton", will be engaged on resurveys at Port Arthur and Fort William and also at Little Current at the north end of Georgian Bay. The former work will be to ensure that existing charts are adequate for increased shipping arising from the St. Lawrence Seaway.

G.E. Wade will be in charge of the St. Lawrence Seaway party which will carry out survey work in cooperation with the U.S. Lake Survey on Lake St. Lawrence from Cornwall to Croil Island.

At the request of the Dominion Marine Association, a survey party under W.D. Forrester will establish a new water gauge and carry out a current survey at Little Current at the top of Georgian Bay.

Geodetic Survey

Two engineers will establish a small, precise triangulation network in the Ottawa area which is to be used for future testing of new equipment. G.M. Gibling will be in charge.

A two-man trailer party under G. Hueston will be engaged on inspection work mainly between Ottawa and Toronto.

Levelling work for the establishment of water-gauges on rivers and lakes will be undertaken by a 13-man, double-levelling party under G. Laflamme between lakes Huron, Superior and Erie.

G. Corcoran will conduct an invar-tape measurement in the Ottawa area with a party of seven.

Legal Surveys

A seven-man party under C.D. Cox will work between Fort William and Port Arthur to Kenora resurveying reservation boundaries.

Right-of-way, sub-division and boundary surveys will be undertaken in the Peterborough, Brantford and Golden Lake areas by a six-man party under L.A. Doxsee.

G. Babbage will head a five-man party that will do surveying on the St. Regis and Moravian Indian reserves in southern Ontario.

QUEBEC

Topographic Survey

Mapping at the 1 to 50,000 and 1 to 250,000 scales will be carried out by a 20-man helicopter party in central Quebec. This work is being undertaken mainly for reasons of power and mineral developments and will be under the supervision of V.V. Spence.

A traverse party of five-men, headed by B.R. Justason, will work along the Peribonca River, which flows into Lake St. John.

Canadian Hydrographic Service

A chartered ship under M. Bolton will be engaged on charting operations off Povungnituk on the east coast of Hudson Bay.

The St. Lawrence Seaway party will survey areas around the Lake St. Louis, Beauharnois Canal and Lake St. Francis sections, with G.E. Wade in charge.

An inland water-level party under G. Dohler will establish and inspect gauging stations from Quebec City to the Lake Head.

Geodetic Survey

Two 18-man parties headed by S. McNeily and A.D. Selley will be engaged on triangulation to establish a network of precise positions in the Schefferville area.

The 13-man levelling party under G. Laflamme will spend part of its season along the St. Lawrence River in Quebec.

N. Cleary will undertake astronomical observations in the Knob Lake area.

An eight-man party under C.D. McLellan will strengthen existing triangulation in northern Quebec. Using the tellurometer an electronic distance-measuring device, they will work from Seven Islands to Schefferville.

Legal Surveys

P. Landry will head a seven-man survey party which will work in the Lake St. John and Mistassini Lake areas.

NEW BRUNSWICK

Topographic Survey

Four men will be employed on map revision surveys from Sussex across to Truro, N.S. T.M. Donohoe will be in charge.

Canadian Hydrographic Service

The C.G.S. "Cartier" under R.C. Melanson will engage on charting work in the region of Cape Bauld and Chaleur Bay.

The launch "Anderson" will resurvey Saint John Harbour. F.L. DeGrasse will head the party.

Legal Surveys

R.O. Semper will head a six-man party which will do sub-division and boundary work in northeast New Brunswick in the Chatham area.

NOVA SCOTIA

Topographic Survey

T.M. Donohoe will head a four-man party that will carry out field interpretation from Truro across to Sussex, N.B.

Canadian Hydrographic Service

The C.G.S. "Baffin" will be engaged on "Decca" sounding and charting work off the southeast coast of Nova Scotia prior to her departure north.

The launch "Anderson" under F.L. DeGrasse will be engaged on charting from Clark Harbour to Yarmouth.

Bedford Basin will be resurveyed by P.L. Corkum and a party on the launch "Dawson".

The launch "Henry Hudson", with L.P. Murdoch in charge, will continue the eastern shore survey from St. Mary's River to Sheet Harbour.

Legal Surveys

A 12-man party under A.B. Sinter will do work on Cape Breton Island and boundary work in the National Parks.

PRINCE EDWARD ISLAND

Canadian Hydrographic Service

Charting work on the northeast coast of the Island will be carried out by the C.G.S. "Acadia" with H. Furuya in charge.

The launch "Merganser" will chart the coastal areas of northwest P.E.I.

NEWFOUNDLAND AND LABRADOR

Topographic Survey

A 20-man party under P.C. Atkinson, using helicopters, will undertake detailed survey work for the 1 to 50,000 and 1 to 250,000 scale mapping program in Labrador. This work will be mainly in connection with mineral and power developments near Schefferville and the Goose Bay area.

Canadian Hydrographic Service

The C.G.S. "Acadia" will carry out charting in the Conception Bay and Cape Freels areas. She will also make a special survey of Bell Island. The work will be in the charge of H. Furuya.

A hydrographic party under R.C. Melanson aboard the C.G.S. "Cartier" will chart the Labrador coast in the regions of Makkovik Bay; Hamilton Inlet to Tuklialik; and Lake Melville.

The C.G.S. "Kapusking" with J.E.V. Goodwill in charge will operate for most of the season on offshore sounding on the east coast. She will also do work at Port aux Basques and undertake shoal examinations on the south coast.

The chartered sealer M.V. "Algerine" will chart in the Quirpon area before leaving for the Arctic.

Another chartered sealer under M. Bolton will continue surveying the Labrador coast in the vicinity of Hopedale before heading farther north.

The C.G.L. "Dawson" under P.L. Corkum will do charting in Hermitage Bay, Newfoundland.

Geodetic Survey

The five-man party under H.E. Jones will engage on geodimeter base-line work in the Nain area of Labrador.

N. Cleary will head a two-man astronomical party which will take observations in the Schefferville area of Labrador near the Quebec border.

GENERAL

Canadian Hydrographic Service

The chartered vessel "Theta", with W.I. Farquharson in charge, will be engaged on a current and oceanographical survey in the Cabot Strait.

The C.G.S. "Baffin", with D.A'H. Charles in charge, will examine a shoal area near Brion Island, Gulf of St. Lawrence.

Ottawa, May 6, 1959.