

### 3. CANADA

#### LETTER OF THE DEPARTMENT OF MINES AND TECHNICAL SURVEYS.

Dear Sir:

Your letter requesting certain information on Canadian photogrammetrical practices for the International Society of Photogrammetry, and addressed to the Canadian Institute of Surveying and Photogrammetry, has been referred to this office.

I regret that we cannot give a full answer to your questionnaire, as our photogrammetrical problems are very different from those of the highly developed European countries. Most of our mapping is for publication scales of 1:50000 and 1:250000 with a special aeronautical chart at 1:500000 and very little work is done at a larger scale than 1:50000 by Dominion Government Mapping Agencies.

Large scale plans have been compiled by photogrammetrical methods for town planning, irrigation, power development, railroad locations, mining development and such enterprises with very satisfactory results. This work is normally done by privately-owned companies and a list of these will be attached to this letter (<sup>1</sup>). The equipment they use will be Kelsh Plotter, Multiplex or Wild A 5 and 6, and Wernstedt-Mahan Plotter. Apart from these types, I know of no other modern photogrammetrical equipment in use in Canada.

In addition to the topographical mapping carried on by the Department of Mines and Technical Surveys and the Department of National Defence, which departments are closely connected, most of the provinces undertake their own mapping for such purposes as forestry and land classification, and utilization. Also, many of the larger commercial enterprises carry on considerable photogrammetrical work for planning their various operations.

It is not possible to say how many maps at a given scale are produced in a given time as photogrammetry using modern instruments is still under development in Canada and will be subject to many radical changes in the near future. To date there are no photogrammetric instruments manufactured in Canada.

In conclusion, Canada was one of the first, if not the first, to practise applied photogrammetry from terrestrial photos under the direction of the late Dr. E. Deville, Surveyor-General of Canada, and has conti-

nued that type of work for over fifty years. Similarly, she was the first to undertake extensive mapping from air photography and the whole of her very large mapping programme is now based on air photography and photogrammetrical methods. Almost the whole of Canada is covered with air photography and the National Air Photographic Library now has a collection of about two and one-half million prints.

Yours very truly,

P. E. PALMER,  
Chief Topographical Engineer

Ottawa, November 28, 1951

(1) Air Surveys Limited. - 313 MacLeod Building, - Edmonton, Alberta.  
Aero Surveys Limited. - Vancouver A.M.F. - British Columbia. Mr. F. J. Churko.  
A. E. Simpson Limited. - 8 Laval Road. - Ville St. Laurent. - Montreal 9, Que.  
Spartan Air Service Ltd. - 348 Queen Street. - Ottawa, Ontario.  
Canadian Aero Services Ltd. - 348 Queen Street. - Ottawa, Ontario.  
The Photographic Survey Corporation Ltd. - 1450 O' Connor Drive. - Toronto, Ontario..  
Arctic Airlines Limited. - N. 7 Hangar, Municipal Airport. - Edmonton, Alta.