

areas which provide a broad range and surprising volume of weather services to meet Canadian needs.

The World Weather Watch plan is undoubtedly ambitious, and technically possible, but can this vast renovation and modernization be brought about, and will the cost and effort be justified? These questions have been thoroughly considered and every avenue of technology and source of resources explored. It has become increasingly apparent that the need for improvements in advice on weather is becoming a necessity. By the end of the present century, the world's population will probably have more than doubled and, even without improvement in the present level of world nutrition, food production must double to meet the needs of the year 2,000. It is widely recognized that climate determines what will grow, and that the yearly weather determines how much. Many developing countries are faced with problems of soil deficiency, poor water supplies, low-yield crop varieties and plant and animal disease. All need precise information. Advance knowledge of weather conditions can help prevent costly mistakes in planning, in selecting the crop, or the site, whether it be for farming, roads, factories, or cities.

The most urgent task facing the world's weathermen is to provide the information and the guidance that will enable the agricultural scientists and the farmers to explore and exploit the world's full capabilities for food production. Through an understanding of the close relations between weather and crop, animal, fowl, fruit and vegetable, and the choice of site, soil and climate for each, the weather can be used to advantage and its hazards to a full harvest kept to a minimum. Particularly in the developing countries, where population is rising rapidly and the level of nutrition is lower, agriculture must respond so that nations will have adequate and dependable food supplies for their survival and peaceful development.

The World Weather Watch holds a hope and a promise that the meteorologist will play his full role in the Freedom-from-Hunger Campaign, and in his support of the scientific community in its search for new and better methods for increasing the world's supply of food.

In implementing the World Weather Watch, each nation is expected to make the improvements in observations and other activities called for in the plan for its territory, so far as possible. Help, where essential, is to be provided by the United Nations Development Programme, by direct assistance from one or more other countries and through contributions to a Voluntary Implementation Fund from which appropriate aid will be deployed and arranged by the World Meteorological Organization.

### **Canada's Contribution**

Canada has informed the Secretary-General of the WMO that it plans to provide the few additional observing stations needed in accordance with the World Weather Watch plan, and that its communications system, already unique in