



# IHD BULLETIN

## NEW ZEALAND

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The International Hydrological Decade Bulletin is an official publication of the New Zealand National Committee for the International Hydrological Decade and presents, twice annually, a survey of programmes, activities and findings of hydrology in New Zealand, carried out under the auspices of the IHD; and also a summary of international activities.

The following resolutions are proposed by Unesco for its 1967-68 work programme:

- (i) That Member States continue their participation in the International Hydrological Decade Programme; and in particular establish and maintain National Committees to allocate funds, to ensure coordination both nationally and internationally, to create and strengthen service and training institutes and to aid, in so far as resources permit, the programmes of developing countries.
- (ii) That the Director-General be authorized, to provide the Secretariat for the I.H.D. Coordinating Council; to assist in Decade projects; to collect, exchange and disseminate information concerning research and techniques; to assist in training projects and to encourage the creation and strengthening of hydrological institutions.

### 1. Coordinating Council

The Coordinating Council held its 2nd session during 19-25 April, 1966 in Paris. New Zealand was represented by an Australian representative and Mr C. Toebes of New Zealand attended as an observer. New Zealand will represent Australia at the meetings of 1967 and 1968.

The main task of the 2nd session was to finalize the working groups and their activities for the Decade. Nine working groups are established for the Decade period viz: network planning and design; global water balance; hydrological maps; Representative and Experimental basins; hydrology of fractured limestone terrains; influence of man on the hydrological cycle; floods and their computation; exchange of information; standardization and education.

The working group on influence of man on the hydrological cycle will deal mainly with the influence of design works, e.g. irrigation, on the hydrological cycle. Research aspects will be dealt with mainly by the working group on Representative and Experimental Basins. On this group New Zealand is represented by Mr C. Toebes.

One of the tasks of this working group is to prepare a **Manual for Research on Representative and Experimental Basins** and, on the request of Unesco, Mr Toebes is preparing a draft manual with the aid of a number of international experts. This manual will be of great importance to New Zealand and will deal with a great many aspects of research on erosion and hydrology.

## 2. Implementation of Decade Projects

The survey of requirements for Decade networks of developing countries and work on a global water balance will be continued.

Mapping activities will also be continued, including a hydrogeological map of Europe and, in cooperation with IASH\*, standardization of symbols, terminology and types of legend will be sought.

IASH will continue to collect, under contract to Unesco, data for a world inventory of snow and ice, and other data for the estimation of global transport and sediment into oceans.

## 3. Exchange of Information and Standardization

Member States will receive assistance for the exchange of data and for publications on Decade projects.

A **Yearbook of Discharge of the World Main Rivers** will be published.

## 4. Training

Three regional courses will be held (in cooperation with WMO, MSA, ECAFE and ECLA\*) in Africa, Asia and Latin America. Continuing of post-graduate courses in Czechoslovakia, Italy, Hungary, The Netherlands and Spain will be assisted.

Publications for training will be prepared, including a glossary of hydrological terms and manuals on hydrological practices.

## 5. Assistance to Member States

Standard equipment and financial assistance for research and training problems will be available to Member States. Technical consultants will be assigned where necessary (especially in the

Middle East and South East Asia). Technical assistance will be available to selected developing countries. Special projects will be undertaken in Brazil, Argentina and the Chad Basin.

## 6. Symposia

The following symposia will be held: floods, analogue and digital computers (both in cooperation with WMO, FAO, IASH), modern methods in ground water (IASH) and selected research problems of the Decade programme (IASH). Proceedings of 1966 and 1967 symposia will be published. A seminar on the hydrology of Latin America will be organized.

Standardization work will be continued in cooperation with WMO, WHO and the International Standardization Organization.

## 7. In New Zealand

Activities have centred mainly around Representative and Experimental Basins. Forty-four Representative Basins are now in operation and data is being processed on a routine basis. Puketurua and Otutira Experimental Basins are expected to be in full operation before the end of this year. Further Basins are being investigated at the moment in Kaingaroa, Gisborne and Tekapo areas. Annual Research Reports for all Experimental Basins are to be published this year giving details about all work done to date. Four interception plots are in operation in New Zealand and four more are expected to be installed this year.

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\* IASH: International Association of Scientific Hydrology.

WMO: World Meteorological Organization.

MSA: Mutual Security Agency (based in Sweden).

ECAFE: Economic Commission for Asia and the Far East.

ECLA: Economic Commission for Latin America.