

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

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SCAR

SCIENTIFIC COMMITTEE ON ANTARCTIC RESEARCH

BULLETIN

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SCAR BULLETIN

No 29, May 1968

INTERNATIONAL ANTARCTIC METEOROLOGICAL RESEARCH CENTRE (IAMRC): PROGRESS REPORT

In 1959 the Australian Government, at the invitation of SCAR, established an International Antarctic Analysis Centre (IAAC) in Melbourne to conduct routine synoptic analysis and research into Antarctic meteorology. The establishment in 1965, by the same authority, of a World Centre of the World Weather Watch (WWW) relieved IAAC of its analysis commitment and it was accordingly redesignated IAMRC and concentrates entirely on Antarctic meteorological research (Gibbs, 1966). Scientists from other countries are very welcome to make use of its facilities.

The Centre functions principally within the framework of research investigations recommended by SCAR:

- (1) The climatology and general circulation of Antarctic regions.
- (2) The nature and extent of broad-scale meteorological processes over Antarctica and the remainder of the Southern Hemisphere.
- (3) The exchanges between mesosphere, stratosphere and troposphere.
- (4) The heat and water budget of the Antarctic atmosphere, the interaction between the atmosphere and the snow and ice sheet and the surrounding seas.
- (5) Meso-meteorological phenomena in the Antarctic particularly in the vicinity of the coast line.

Examples of work carried out in these fields include:

- (a) High level flow patterns (up to 30 km) in high latitudes.
- (b) Detailed synoptic-climatological studies of the Antarctic regions.
- (c) Stratospheric spring warming phenomenon for the past ten years over the Antarctic including: radiation measurements obtained by satellite, ozone variations and energy balance studies.
- (d) Studies of the geographical distribution of the various components of the surface radiation balance for Antarctica and the southern oceans.
- (e) Studies of satellite and conventional data with a view to relating patterns on satellite photographs with profiles of temperature and moisture in the atmosphere. Results are being applied to a case study of cyclone development and decay over the Southern Ocean.

The work of the Centre is locally reviewed by the Australian Academy of Science and the Bureau of Meteorology through a Joint Working Group comprising W. J. Gibbs, Director of the Bureau of Meteorology, as Chairman and Executive Officer, and C. H. B. Priestly and D. F. Martyn, Australian Academy of Science. The work of the Centre is reported at least annually to the Council of the Academy, to SCAR and to the Australian Government.

The Director of IAMRC is H. R. Phillpot, formerly leader of IAAC. J. W. Zillman, Australian Bureau of Meteorology is permanently attached to the

Centre. Any scientist, whether working for a national meteorological service or for a university, may work there and make use of assistant staff, analysis, conference, library and office facilities provided, as well as facilities of the Australian Bureau of Meteorology (including the Southern Hemisphere Analysis Centre) and, by 1968, a powerful digital computer complex. They are free to follow their own scientific interests or, if desired, a subject suggested by the Centre. Scientists should be endorsed by their appropriate authority and be reasonably fluent in English. The Australian Government provides no salaries or subsistence for overseas workers, but financial support has been previously extended both by ICSU and WMO.

Overseas scientists have included K. Yoshida, Japan, 1964-66; W. W. Knapp, United States, 1965; and D. W. Martyn, United States, 1966-67.

Reference

GIBBS, W. J. 1966. The International Research Centre, Melbourne. *Polar Record*, Vol. 13, No. 22, 1966, p. 143-45, and *SCAR Bulletin*, No. 22, 1966, p. 403-05.

INTERNATIONAL SYMPOSIUM ON ANTARCTIC GLACIOLOGICAL EXPLORATION (ISAGE), 1968

An International Symposium on Antarctic Glaciological Exploration will be held at Dartmouth College, New Hampshire, between 2 and 7 September 1968, organized by the SCAR Working Group on Glaciology with the support of the Commission on Snow and Ice (IASH).

Papers will cover the following broad fields of research: (a) glaciological techniques (geochemical, geophysical, geothermal, cores, etc.), (b) ice sheet dynamics, (c) ice sheet heat and mass balance, (d) ice shelves, (e) sea ice, (f) glacial meteorology, (g) related quaternary studies.

SCAR MEETINGS DURING 1968

<i>Meeting</i>	<i>Place</i>	<i>Dates</i>
Tenth meeting of SCAR	Tokyo	10-15 June
Second Biology Symposium: Antarctic Ecology	Cambridge	28 July-4 August
International Symposium on Antarctic Glaciological Exploration	Dartmouth, New Hampshire	2-7 September

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NOTICE

The SCAR Bulletin is published in England in January, May and September each year as part of the *Polar Record*, the journal of the Scott Polar Research Institute.

Contributions are invited, and should consist of factual notes on the membership, equipment and activities of Antarctic parties; articles on matters of particular interest in connection with these activities are also welcome. Contributions should be sent to the Editor, Scott Polar Research Institute, Lensfield Road, Cambridge, England.

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