

report, including also the list of publications produced under the auspices of the project.

#### No. 237 - FLORAS OF THE GONDWANIC CONTINENTS (1986-1990)

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**Description:** The primary objective is to produce a general, up-to-date summary of the Upper Silurian to Lower Tertiary floras of the Gondwanic continents. Individual and group research studies intend to fill some important gaps. The final version of the summary will include some relevant taxonomic, biostratigraphic and paleophytogeographic problems treated on an international scale.

#### Achievements in 1989

The annual meeting of the project had to be postponed to January 1990 because of administrative difficulties in getting the yearly allocation on time.

The meeting was held at the Birbal Sahni Institute of Paleobotany in Lucknow, India, 8-12 January 1990. Project activities were reviewed and the plans for the next two years were discussed.

The main scientific achievements reported are:

- fossil plant record received from late Carboniferous to early Permian time interval concerning migration routes between Gondwana and other paleofloristic provinces;
- floral evolution in Gondwana during the late Carboniferous, Permian and Triassic time;
- studies on local floras: Cretaceous of Antarctica, Tertiary of Antarctica;
- nineteen papers on specific topics of Paleobotany of South America and India.

Collaboration was going on with IGCP Projects 193, 211, 216 and 242.

Fourteen countries were involved with the project: Argentina, Australia, Bolivia, Brazil, Chile, People's Republic of China, Colombia, France, Federal Republic of Germany, India, New

Zealand, United Kingdom, Uruguay and United States of America.

#### Activities planned

##### Meetings to be held in 1990

- 16-20 April 1990, Madrid and Cordoba, Spain: on Gondwana Floras, during the International Conference on Late Paleozoic and Mesozoic Floristic Change.
- 1-5 July 1990 in Havana, Cuba, one-day meeting during the V Congreso Latinoamericano de Botanica.
- 11-13 November 1990 in Lucknow, India, on East Gondwana.
- 10-16 December 1990, in São Paulo, Brazil, Final Meeting of IGCP Project 237 on West Gondwana, at the 7th Meeting of Paleobotanists and Palynologists, with a field trip to discuss the Gondwana flora of Paraná Basin.

The final publication of the project will be discussed in detail at the final meeting. It will contain individual papers and regional reviews, with taxa range tables and maps (Australia and New Zealand, India and related regions, Malagasy, Africa, South America, East Antarctica, West Antarctica). Active extension for 1991 will be requested.

#### No. 239 - EXPLOITATION OF IGBADAT (1985-1990)

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**Description:** The focus of this project is to develop and test procedures for retrieving, transmitting and processing petrological data accumulated in IGBADAT, a worldwide data base of petrological, petrographical and geochemical data on igneous rocks. IGBADAT is the product of an earlier IGCP project and is housed at World Data Center A. As part of this focus, we have concentrated on microcomputer-based programs for extracting and manipulating the information.

#### Achievements in 1989

Since we are concerned with the coverage of IGBADAT and its utilization, our activities are divided between expansion of the data base and exploitation of it. The latest version of the data base (IGBADAT 4.0) will expand the coverage of the literature by an additional 20 per cent. Although this is a significant increase, more