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Gazetteers

AUTOMATIC TYPE SELECTION AND TYPE-SETTING FOR MAPS IN
THE DIVISION OF NATIONAL MAPPING, AUSTRALIA*

Paper presented by Australia

* Prepared by the Division of National Mapping, Canberra, A.C.T., Australia.

A system has been developed by the Division of National Mapping which automates the extraction, selection and type-setting of feature names for mapping purposes.

A master names file has been created based on the names contained in the "Australia 1:250 000 Map Series Gazetteer". Within each feature code every named feature has been assigned an order of importance.

Feature groups and number of hierarchies established for each are:

<u>Division</u>	<u>Group</u>	<u>Hierarchies</u>
Cultural	Populated places	11
	Homesteads etc.	3
	Roads	3
Topographic	Relief features	6
	Inland area features	12
	Islands	14
	Headlands	5
Hydrographic	Offshore areal water features	18
	Inland areal water features	14
	Drainage network	8

Computer programmes have been written to:

- extract feature names, for specified maps, and allocate type font, point size and case to each;
- convert the selected feature names and associated type variables to code readable by the automatic type-setting machine;
- provide listings for manual type-setting;
- maintain the Master Names file through corrections, deletions and additions;
- provide listings or magnetic tape copies of feature names for specified maps or states on request.

At the map compilation stage the cartographer requests a listing of the feature names according to the hierarchy of importance determined for the map series. For one-off projects, the cartographer nominates the hierarchies to be used. This listing is checked for accuracy and completeness and any corrections and additions listed. The Master Names file is then updated.

The extraction and allocation programme is then run on the updated version, after which stripping film is contacted from the negative film output of the automatic type-setting machine, and the map name overlay prepared in the normal manner.

Anyone interested in further details of the system should write to the Director of National Mapping, PO Box 548, Queanbeyan 2620, Australia.