

AARNet Affiliate Members (15th February, 1991)

Organisation	Membership Type	Link Speed	Connection	Sponsor	Connection Date	Fee
BHP Research Laboratories	NETWORK	48K	VIC Hub	Monash	March, 1991	\$28,500
Telecom Australia Research Laboratories	NETWORK	9.6K	VIC Hub		February, 1991	\$11,500
Australian Bureau of Meteorology	NETWORK	48K	VIC Hub	Various (note 1)	March, 1991	\$28,500
Defence Science and Technology Organisation	NETWORK	48K	SA Hub	Various (note 2)	March, 1991	\$28,500
Geelong and District Water Board	NETWORK	9.6K	Deakin	Deakin	April, 1991	\$8,000
Australian Seismological Centre, BMR	NETWORK	9.6K	ACT Hub	ANU	April, 1991	\$11,500
Earth Resource Mapping	NETWORK	9.6K (DialUp)	UWA	UWA	April, 1991	\$5,000
Department of Transport and Communications	NETWORK	9.6K	ACT Hub	AVCC	April, 1991	\$11,500
Canon Information Systems Research Australia	MAIL					\$1,000
Elizabeth Computer Centre	MAIL					\$1,000
Dialix ² <i>Research Labs.</i>	MAIL					\$1,000
Toshiba International	MAIL					\$1,000
Telecom Network Engineering and Support Services	MAIL					\$1,000
QPSX Communications Ltd.	MAIL					\$1,000
Telecom Australia - Integrated Network Products Unit	MAIL					\$1,000
Graphics Computer Systems	MAIL					\$1,000
Boral Elevators	MAIL					\$1,000
Department of Agriculture and Rural Affairs	MAIL					\$1,000
Telecom Australia (WA)	MAIL					\$1,000
Softway Pty Ltd	MAIL					\$1,000
Gesteiner Pty Ltd	MAIL					\$1,000
ESRI Australia	MAIL					\$1,000
						\$147,000

Note 1. See attached letter

Note 2. See attached letter and response from Prof. McKinnon



THE UNIVERSITY OF WOLLONGONG

PROFESSOR K.R. MCKINNON VICE-CHANCELLOR

9 October 1990

Mr J.W. Bennett,
DSTO Australia,
Information Systems Branch,
P.O. Box 1600,
Salisbury S.A. 5108

Dear Mr Bennett,

I refer to your letter of the 18th September concerning the wish of DSTO to participate in AARNet by means of a link between the AARNet hub at Adelaide University and the DSTO Salisbury site. I have sent your letter to my colleagues at the Australian Vice-Chancellors' Committee to respond on the details, but in principle I see no difficulty about DSTO being connected. Indeed I welcome your participation in the network.

In relation to your questions, I can say that I do not think that any problem will be anticipated by third parties using the network to carry out research for you. We do not want AARNet to be used for commercial transactions between two third party sites (e.g. a computer vendor communicating commercial information to its branch in another state), but we would not see any difficulty about a commercial contractor in Adelaide contacting DSTO laboratories, as part of their contract.]

If the Technical Manager is happy about the proposed arrangement regarding control of equipment on site, I see no reason for AARNet generally to raise any problems.

Affiliate membership depends upon the proposed band width connection which is a surrogate for the anticipated traffic. John Mullarvey of the AVCC will provide you with the necessary details and form of application.

With kind regards,

Yours sincerely,

K.R. McKinnon
Vice-Chancellor

cc Mr John Mullarvey, AVCC
Mr Geoff Huston, Technical Manager, AARNet



BUREAU OF METEOROLOGY

HEAD OFFICE

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Australia

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Telephone (03) 669 4000
Telex AA 30664
Telegrams METAUST MELBOURNE
Fax (03) 669 4699

In reply please quote:

15/385

Please mark your reply Attention:

Mr Geoff Huston
AARNet Technical Manager
Australian Vice-Chancellor's Committee
PO Box 1142
Canberra City 2601

Dear Mr Huston

Connection of Bureau of Meteorology to AARNET

The purpose of this letter is to request that the Bureau of Meteorology be connected to AARNET. The proposed connection is a single link from the Head Office of the Bureau in Melbourne to the AARNET node at the University of Melbourne.

The purposes for our connection to AARNET are:

- (a) to support the collaborative research activities undertaken by the Bureau, several Universities and other organizations connected to AARNET (eg CSIRO)
- (b) to allow for the distribution of meteorological data for the universities' academic activity in meteorological and related sciences
- (c) to permit our access to overseas centres for the exchange of research-related software and data. (eg to NASA and the US National Center for Atmospheric Research (NCAR))

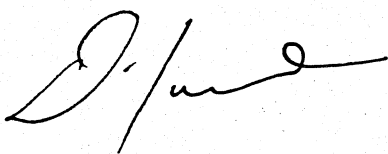
Concerning collaborative research activities, the Bureau has existing affiliation agreements with Monash University, the University of Melbourne, Flinders University and Macquarie University. The Bureau has a very active research program with Monash University and has jointly funded that university's chair of Dynamical Meteorology in the Department of Applied Mathematics. From Macquarie University, Professor Henderson-Sellers is currently requesting a computer link to our Cray supercomputer for climate-related research projects.

Attached is a copy of the 1990 Australian Academy of Science report on "Atmospheric and Climate Sciences in Australia". Table 1 of the report lists the 15 universities involved in atmospheric science and many of these require real-time meteorological data. These universities have leased links (at their own expense) to connect to Bureau communications systems in order to receive our meteorological data, facsimile charts and satellite data. An AARNET connection provides scope to improve these connections and to reduce the cost to the universities concerned.

We understand that you have provision for affiliated organizations such as the Bureau of Meteorology to connect to AARNet, and we request that you assess the charge based on the benefit to the many interested universities.

In summary we request your approval-in-principle to connect to AARNet, and an indication of the charge and any conditions to apply. We will then finalize our planning and confirm our request to connect.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'D. Gauntlett', written in a cursive style.

Dr D Gauntlett
Deputy Director
(Research and Systems)

7th September 1990

Table 1: Universities involved in atmospheric science in Australia

University	No of professional staff	No of support staff	No of students
Adelaide (Physics)	4	2	6 (final) 7 (MSc and PhD)
Curtin (Physics and Geoscience)	3	0	3 (honours) 3 (MSc) 1 (PhD)
Flinders (FIAMS)	4	3	10 (final and honours) 6 (PhD)
James Cook (Geography)	2	1	6 (final)
Macquarie (Earth Sciences)	6	3	30 (final) 8 (MSc and honours) 5 (PhD)
Melbourne (Meteorology)	6	3	12 (final) 26 (MSc and honours) 5 (PhD)
Monash (Mathematics/Dynamical Meteorology)	5	5	16 (MSc and honours) 12 (MSc and PhD)
Monash (Geography & Environmental Science)	3	2	20 (final) 3 (MSc and PhD)
Murdoch (Environmental Science)	5	5	5 (final)
Newcastle (Geography)	2	0.3	20 (final) 1 (honours)
New South Wales (Physics)	2	0.5	0
Queensland (Applied Climatic Research Unit)	4	1	-
Tasmania (Geography & Environmental Science)	1	0.3	5 (final)
UTS (Physics)	1	0.5	1 (MSc) 1 (PhD)
Wollongong (Civil & Mining Engineering)	1	0	0

Notes

1. Staff actively involved in atmospheric science.
2. Student numbers in final year undergraduate classes and above.
3. Two institutions noted oceanographic/marine science professional staff too (not included).

Table 2: Employment areas for professional meteorologists in 1987

Bureau of Meteorology	CSIRO all Divisions	Universities and CAEs	Other Government Agencies	Industry Consultants	Total
220	90	40	30	20	400
55%	23%	10%	7%	5%	100%