

SOUTH AFRICAN NATIONAL ANTARCTIC PROGRAMME



SACAR 1

PROJECT PROPOSAL

**APPLICATION FOR FUNDING AND LOGISTIC
SUPPORT**

SOUTH AFRICAN NATIONAL ANTARCTIC PROGRAMME (SANAP)

PROJECT PROPOSAL - APPLICATION FOR FUNDING AND LOGISTIC SUPPORT

1. **SUBMISSION OF THIS APPLICATION**

Please submit this application to:

SANAP PROJECT PROPOSAL

c/o Department of Environmental Affairs and Tourism

Directorate: Antarctica and Islands

Private Bag X 447

PRETORIA

0001

ATTENTION: Carol Jacobs (Rm 831)

Applications must be submitted by no later than 30 June 2003.

All applications must be signed by the Applicant, Project Leader, Head of Department and the Head of the Organisation, before forwarding to the Department of Environmental Affairs and Tourism (DEAT). All proposals will be treated as tenders and will be opened together soon after the closing date of 30 June 2003.

We regret that late or incomplete applications will not be considered.

2. **MAJOR DISCIPLINE IN WHICH THE RESEARCH/STUDY WILL BE UNDERTAKEN**3. **TITLE OF PROJECT**

(The title must be short and specific and should be used for the duration of the project)

3.1 DURATION OF PROJECT: _____ 20__ TO _____ 20

4. **CATEGORY OF PROJECT PROPOSAL**

- (a) First proposal (Please attach a summary of the literature).
- (b) Follow-up proposal (Please submit a full progress report with this application)
- (c) Application for additional funds (A full progress report and a motivation by the project leader should be submitted with this application)

5. **KEYWORDS BY MEANS OF WHICH THE PROJECT CAN BE IDENTIFIED**

6. **RESPONSIBLE PROJECT LEADER (AND CO-LEADERS)**

Title

Surname

First name/s

Business address

Telephone ()

Fax ()

E-mail

Title

Surname

First name/s

Business address

Telephone ()

Fax ()

E-mail

Title

Surname

First name/s

Business address

Telephone ()

Fax ()

E-mail

7. PARTICULARS OF APPLICANTS

Title

Surname

First name/s

Business address

Telephone ()

Fax ()

E-mail

Date of birth 19 / /

Citizenship

Are you a South African citizen? _____ If not, are you a permanent resident?

Country of citizenship _____ Occupation

Employer _____ Department/Institution

8. QUALIFICATIONS

Highest qualification _____ Where obtained

Date obtained _____ Will the research be used to obtain a degree

Which degree

- 8.1 Please attach details of previous experience in Antarctica, Marion and Gough Islands and the Southern Ocean.

9. SCIENTIFIC PUBLICATIONS (Please attach a list of your publications during the past 5 years)

10. **SUMMARY OF FINANCIAL REQUIREMENTS**

	Received for current year 20__	This Application 20__	Future Application/s 20__ 20__
Manpower costs			
Running expenses			
Capital equipment			
TOTAL			

10.1 Which organization will be responsible for the administration of the funds?

11. **OBJECTIVES AND RATIONALE (NEED AND PURPOSE).**

(Please state the objectives of the project, the need for it and how it will contribute to SANAP. In follow-up proposals, please indicate and explain any changes from the previous proposal.)

12. **PARTICULARS OF A PILOT OR FEASIBILITY STUDY THAT HAS BEEN UNDERTAKEN.**

(Please give a short description of any pilot/feasibility study which may have been undertaken.)

13. **KEY QUESTIONS AND RESEARCH APPROACH**

(Please provide a list of specific questions to be answered or hypotheses that will be tested and indicate how each is to be approached. In follow-up proposals, indicate and explain any changes from the previous proposal.)

13.1 Please provide an indication of the unique multi-disciplinary nature of the research.

14. **PROPOSED WORK PLAN**

(Please describe the tasks to be undertaken during the whole project. Describe the methods to be used, indicate the persons and institutions involved and provide target dates for the start and completion of each task. In follow-up proposals, indicate and explain any changes from the previous proposal.)

14.1 Is this project a co-operative/collaborative project. Please provide summary information on the associated projects and discuss the role of this project in the total programme.

15. **WILL THE PROJECT LEADER BE AWAY FOR ANY SIGNIFICANT PERIODS WHILE THE PROJECT IS IN PROGRESS?**

15.1 If yes, describe the arrangements made for leadership and supervision during his/her absence.

16. **END PRODUCT OF THE PROJECT**

(Describe the planned final products that will result from the project (i.e. the nature of the final report, maps, etc.) and state when they will be submitted. All DEAT funded projects should include the text for a popular publication which will be used to bring the results of the research to the general public or to a specific user group.)

17. **DISCUSS ANY POTENTIAL IMPACT YOUR STUDY WILL HAVE ON THE ENVIRONMENT AND DESCRIBE MITIGATING ACTIONS WHICH YOU PROPOSE TO MINIMIZE OR ELIMINATE THE IMPACT**

The following guidelines are provided to assist applicants with questions relating to the potential environmental impact of a proposal.

- (i) Proposals for the continuation of ongoing projects should state clearly if any changes are proposed in field methods, work programmes, camp sites, and timing from those documented in the original proposal, or subsequent modifications to it.
- (ii) The proposer should list aspects of the proposed activity, that have not been noted, that might cause impacts on the Antarctic environment (e.g. visual impact or other forms of disturbance).
- (iii) In making all these assessments of impact, the proposer should briefly consider the nature, duration and intensity of the likely environmental effects, including the following;
 - a. the existing environment, its variability or dynamic nature, resilience to change, sensitivity to disturbance, previous disturbance, protected status etc;
 - b. cumulative and possible indirect impacts;
 - c. the probability of accidents and their environmental consequences;
 - d. the adequacy of existing information and knowledge.
- (iv) A map of the area should be included (sketch if necessary) to assist the interpretation of this section of the research application.

Proposers are expected to provide sufficient information in their answers to allow the DEA & T to make a thorough, complete and accurate evaluation of the environmental impact of the project. Insufficient information will require follow-up action and/or may prejudice the environmental acceptability of the project.

Preliminary Environmental Evaluation

Details of Activities

Answer all questions only if work is to be carried out in Antarctica or Marion Island during 20____/ 20____

If you answer "Yes" to any of these questions, a full description of proposed activity, including proposals for mitigating and monitoring these impacts, is required.

It is important that you provide maps detailing the proposed research areas (hand drawn sketches are acceptable).

Will your objective:

a. Use a radionuclide? Yes No

If Yes, complete the following:

Radionuclide	Chemical form	Quantity (Curies)	Half Life (Years)

Detail procedures you will take to ensure that no radiation will enter the Antarctic or sub-Antarctic environment from use or spillage.

b. Take any chemical to Antarctica or Marion Island?

Yes No

If Yes, complete the following:

Chemical	Formula	Quantity	Use

Unused chemicals will be: Left at SANAE Base

Returned to South Africa

Other

If Other, detail disposal procedure:

c. Release any chemical to the Antarctic or sub-Antarctic Environment?

Yes No

If Yes, detail the need to release, the chemical, the amounts involved and the location.

- d. Require the use of explosives? Yes No
If Yes, complete the following:

How will the explosives be used?

Detail any precautions taken to minimise disturbance to any wildlife or plants:

Explosive Type	Number of detonations	Charges per detonation (kg)	Total weight (kg)

- e. Collect, capture, kill, restrain, tag or band any terrestrial, freshwater or marine plants or animals?

Yes No

If Yes, complete the following:

For each species (apart from those taken using plankton nets or trawl), estimate the proportion of the local population you will be collecting, capturing, killing, tagging or banding. If restraining, include period of restraint:

Species	Method	Number	Proportion of population (%)

For each species, indicate the proportion of the local population you will be disturbing while carrying out the above activities.

- f. Enter any Protected Area? Yes No

If Yes, complete the following:

Name of Protected Area	Duration of Visit	Total person-days

Detail why the work must be carried out within the Protected Area:

- g. Take to Antarctica or Marion Island any animal, plant (includes seeds), micro-organism or soil?

Yes No

If Yes, complete the following:

Species	Quantity

Detail why these materials need to be taken to Antarctica:

Detail the quarantine procedures you will undertake to ensure that there is no release to the Antarctic environment:

- h. Significantly disturb by flooding, sampling, trampling, camp operations or any other means any ice-free area (bare ground)?

Yes No

If Yes, complete the following:

Briefly describe any such significant disturbance:

Detail any steps you will take to minimise such disturbance:

i. Take or remove any physical specimens eg. rocks, fossils etc?

Yes No

If Yes, detail the general area and types of specimens to be collected:

Location	Specimen	Type	Total Number of Weight

j. Cumulative Impacts.

Occupy new or existing camp sites? New

Old

Both old and new sites

If new, list these sites and indicate why a previously impacted site cannot be used.

Will you track previously untracked ground?

Yes No

If Yes, state why this is necessary:

Will you install equipment, markers, stakes, cairns etc. that will be left in the field?

Yes No

If Yes, detail location and type of marker, stake etc:

Location	Type

k. Do you expect your activities to have an environmental impact not covered in the above?

Yes No

If Yes, fully detail impacts:

l. Is the proposed activity likely to have more than a minor or transitory impact?

Yes No

If Yes, a CEE will be required:

18. FINANCIAL REQUIREMENTS

18.1 MANPOWER

(Please provide details of all persons involved and/or employed and/or applied for including ad

hoc help on a part-time basis.)

No Antarctic Officers and/or technical/administrative personnel will be funded - the management and administration of the specific project will be the responsibility of the project leader. The Department will only fund home-based researchers appointed on bursaries, and no allowances will be made for the payment of service benefits, such as housing subsidies, medical aids, pensions, etc.

In follow-up proposals explain any changes from the projection given in the previous proposal.

Name, qualifications, past experience and function in this Project	Time available for this project (% of full-time man-year)	Nature and Source of non-SANAP funding	Amount requested from SANAP
Total			

18.2 RUNNING EXPENSES

(Please complete all sections. Indicate non-SANAP funds available. That, if a University decides to suggest a research proposal, the University itself must render the necessary support services, such as photocopies, telephone calls, postage, etc. If a research project requires technical support services, the time required must be budgeted for instead of a designated appointment.)

In follow-up proposals explain any changes from the projections given in the previous proposal.

Items	Nature and source of non-SANAP funding	Funds requested From SANAP
Transport (sea, air and land with distances and rates)		

Subsistence (nature and rates)		
Supplies and services (please specify)		
Total		

18.3 CAPITAL EQUIPMENT

(Please describe the items required.)

Items paid for in full by SANAP remain the property of DEAT. Items to which the participating organization contribute 50% or more of the cost, become the property of the organization.

In follow-up proposals, please explain any changes from the projections given in the previous proposal.

Description of item and total cost	Non-SANAP Funding	Non-SANAP application	Amount requested from SANAP
Total			

A short motivation must be provided for each item requested. Please supply a quotation for all items

requested.

18.4 LOGISTIC SUPPORT

(Please assess your support requirements carefully. The details provided will be used to develop the support for your project, as well as the total integrated support for all programmes. *You will be required to complete this section for each voyage undertaken.*)

Volume and mass of cargo _____ m² _____ kg

Description of cargo

Destination where cargo is required

Radio-active and other hazardous cargo.

Please provide details of materials and how they will be used. State special precautions to be undertaken.

Accommodation requirements

Ship:

Number of persons

Period _____ to

Base:

Number of persons

Period _____ to

Ship's time required: _____

Sampling locations at sea (please attach a detailed map):

Laboratory requirements (ship):

Laboratory requirements (base):

Type of equipment requiring deployment from ship:

Small boat needs (locality and time):

Surface vehicle needs:

Helicopter support (describe fully e.g. time, locality, special requirements):

Camping equipment

No of persons / teams

Special equipment:

Protective clothing

No of persons

List any special requirements:

Please list any special needs:

19. PARTICULARS OF RESEARCH/STUDY ABROAD

19.1 Reasons why it is necessary to undertake the research/study abroad.

19.2 What arrangements have been made for overseas research/study?

19.3 Period that will be spent abroad

Date of departure: _____

Date of return: _____

19.4 Subsistence and transport
(Calculations should be made at the current public service rates.)

Place	Type of accommodation	No of days	Costs

Total			

19.5 Travel costs

Type of Transport	Destination	Distance	Costs
Total			

20. **STATEMENT BY APPLICANT**

I declare that the foregoing information is correct.

Signature _____ Date _____

21. **RECOMMENDATION BY THE RESEARCH OR EQUIVALENT COMMITTEE OF THE APPLICANT'S ORGANIZATION**

Chair _____ Date _____

I certify that the information contained in this application is correct and that if SANAP financial support is provided, it will be utilised in accordance with the conditions as laid down by the DEAT.

Project Leader _____ Date _____

Head of Department _____ Date _____

Head of Organization _____ Date _____

22. COMMENT AND RECOMMENDATION BY SANAP

Chair _____ Date _____

Appendix 1**ETHICAL REQUIREMENTS FOR RESEARCH ON THE PRINCE EDWARD ISLANDS****Questionnaire to be completed by reviewing ethical committee**

This questionnaire represents the minimum ethical requirements for research on the Prince Edward Islands. It is not intended as an alternative to the reviewing ethical committee's review process and guidelines, but as a supplement to it and as such represents a standardised format whereby the Department of Environmental Affairs and Tourism can ensure that research conducted on the Prince Edward Islands is of a high ethical standard.

The questionnaire is based on the National Code for the handling and Use of Animals in Research, Education, Diagnosis and Testing of Drugs and Related Substances in South Africa (1990) and expects of the reviewing committee to indicate whether certain aspects of the proposed projects have been reviewed by it or not. Please note that these questions are applicable only if the proposed project affects vertebrate animals. Where a question is not relevant, please indicate either *no comment*, *not enough information*, or *not applicable*. Space is provided below for comments on any of the questions. Please refer to the question number when commenting.

QUESTION	REVIEWED Indicate either Yes / No / No comment / Not enough information / Not applicable
Part 1. Professional detail regarding applicant and co-workers	
I Applicant name and affiliation	
II Whether the following information about persons responsible for applying proposed research techniques has been provided:	
i. names	
ii. qualifications (academic or technical)	
iii. description of each person's experience in proposed techniques	
III Whether the following information about other co-workers has been provided:	
i. names	
ii. qualifications	
iii. affiliation	

QUESTION	REVIEWED Indicate either Yes / No / No comment / Not enough information / Not applicable
Part 2. Ethical aspects with regard to proposed research project	
i. whether the project's contribution to the relevant scientific field justifies any possible pain or discomfort caused to animals during the course of research	
ii. whether alternatives to animal models are necessary or available	
iii. whether proposed methods/techniques are acceptable in terms of the level of risk to the animal subject's life or well-being	
iv. whether techniques to be applied in the project has been refined through planning and pilot studies	
v. whether the trial/survey is statistically valid (i.e. not wasteful of its animal subjects)	
vi. whether treatments and/or clinical procedures applied and/or surgery done to animals are justifiable and humane	
vii. whether vertebrate animal capture techniques (including drugs used where applicable) is appropriate and humane	
viii. whether systems and techniques for the handling of animals during research is appropriate and humane	
ix. whether facilities for the handling and housing of restrained/captive animals are appropriate, adequate and humane	
x. whether there is adequate planning in the event of emergencies or in the case of unexpected results which may cause unnecessary	

and excessive pain and suffering to the animals	
xi. whether methods proposed to handle carcasses of animals that die during the period they are in the care of the applicant are adequate and appropriate	
xii. whether proposed methods of euthanasia (including any proposed pest extermination methods) are justifiable and humane	
xiii. whether the experience and qualifications of the researcher and his/her assistants is adequate and appropriate for the proposed techniques (including the administration of any drugs)	
xiv. whether all drugs that are to be used in the proposed techniques are accompanied by the appropriate prescription forms	
xv. whether veterinary supervision/consultation is necessary and if so, adequate	
xvi. whether the applicant and his/her co-workers and assistants are familiar with standard guidelines for the ethical manipulation and care of experimental animals and the laws governing these	

*Author: TD Wassenaar, CERU, Dept Zoology & Entomology, University of Pretoria, Pretoria, 0002
Not to be cited or altered without permission from author.*

COMMENTS:

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HEAD OF ETHICS COMMITTEE

DATE

Appendix 2

DELIVERABLES

(SANAP-RELATED ONLY)

A. CURRENT SANAP RESEARCH CYCLE: 1 April 2001 – 31 March 2005

Kindly indicate what the expected deliverables of your project will be for the duration of the current research cycle, including the one year extension, with respect to the following:

- Number of Honours, MSc and PhD students expected to be trained/obtained (*if in progress, please list name, degree and year of completion – add further lines if necessary*)

Honours

→

MSc

→

PhD

→

NAME

DEGREE

YEAR

Honours →

MSc →

PhD →

<u>NAME</u>	<u>DEGREE</u>	<u>YEAR</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____