

DP\100025

**Fine scaling the design of Falkland
Islands Marine Management Areas**

Brickle, Paul | South Atlantic Environmental Research Institute

Funding sought
Project start/end

£329,379.00
1 Apr 2018 - 31 Dec 2020

1. Contact Details

Q1. Lead applicant contact details

Please enter the contact details for the lead application. The lead applicant is the same as the Flexi-Grant account holder. Please note that the Flexi-Grant account holder will be the only contact point for the application. Additionally, please add contact details for the Project Leader if this is different from the lead applicant.

Dr Paul Brickle

Project Leader

South Atlantic Environmental Research
Institute

Primary Applicant

<http://www.south-atlantic-research.org/> (Work)

South Atlantic Environmental Research
Institute (SAERI), Stanley Cottage, Ross
Road, Stanley, Falkland Islands, FIQQ 1ZZ,
Falkland Islands (Malvinas) (Work)

Mrs Tara Pelembe

Stanley Cottage, Stanley, , United Kingdom

Q2. Lead organisation contact details

Please enter the applicant organisation details

South Atlantic Environmental Research Institute

Stanley House (North), , Ross Road, Stanley,
FIQQ 1ZZ, Falkland Islands (Malvinas)
(Home)

Q3. Lead organisation type

Please select one of the below options.

Other (e.g. Academic)

Please add any 'Committee Feedback' to the field below:

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Please add any 'Specific Ineligibility' feedback to the field below:

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Please add any 'Conditions' to the field below:

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Please add any 'Positive Feedback' to the field below:

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2. Title, Dates & Budget Summary

Q4. Project title

Fine scaling the design of Falkland Islands Marine Management Areas

Q5. Project dates

Start date: 01/04/2018	End date: 31/12/2020	Duration (e.g. 2 years, 3 months): 2 years, 9 months
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Q6. UKOT(s)

(See Guidance Notes)

Which UK Overseas Territory(ies) will your project be working in? You may select more than one UKOT from the options below.

Falkland Islands (FI)

* if you have indicated a territory group with an asterisk, please give detail on which territories you are working on here:

In addition to the UKOTs you have indicated above, will your project directly benefit any other country(ies)? If so, list here.

Q7. Budget summary

Year:	2018/19	2019/20	2020/21	Total request
Amount:	£145,719.00	£122,383.00	£61,277.00	£329,379.00

Q7b. Proposed (confirmed and unconfirmed) co-financing as % of total project cost	44%
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3. Lead Organisation Summary

Q8. Lead organisation summary

Please provide the following information on the lead organisation

<p>What year was your organisation established/ incorporated/ registered?</p>	<p>2012</p>
<p>What is the legal status of your organisation?</p>	<p><input checked="" type="radio"/> Other (if selected, please explain below)</p>
<p>Other explained</p>	<p>Established in March 2012 by Falkland Islands Government (FIG)</p> <ul style="list-style-type: none"> • Incorporated and registered in July 2017 as a Charitable Incorporated Organisation in England and Wales (Charity No. 1173105) and in the Falkland Islands (provisional Charity No. C47).
<p>How is your organisation currently funded?</p>	<p>SAERI ceased to be a FIG department on the 1st July 2017. It is now incorporated as a charity registered in England and Wales and recognised in the Falklands. SAERI also owns a trading subsidiary incorporated in the Falklands, SAERI (Falklands) Limited which aims to provide funding to assist SAERI to develop.</p> <p>SAERI receives an annual subvention from FIG. The remainder of SAERI's income is derived from grants. Revenues from commercial opportunities such as Environmental Impact Assessments and Fisheries Assessments generated by SAERI (Falklands) Limited are donated to SAERI the Charity. SAERI generates, on average, annual revenue of £1 million.</p>

Have you provided the requested signed audited/independently examined accounts? If you select "yes" you will be able to upload these. Note that this is not required from Government Agencies.

Yes

Please attach the requested signed audited/independently examined accounts. The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.

Q9. Has your organisation been awarded Darwin Initiative funding before (for the purposes of this question, being a partner does not count)?

Yes

If yes, please provide details of the most recent awards (up to 6 examples)

Reference no.	Project leader	Title
DPLUS065	Dr Paul Brickle	Mapping Falklands and South Georgia coastal margins for Spatial Planning
DPLUS042	Dr Paul Brickle	Dolphins of the kelp: Data priorities for Falkland's inshore cetaceans
DPLUS027	Dr Paul Brickle	Marine spatial planning in the Falkland Islands
EIDCF012	Dr Paul Brickle	Assessing Ascension Island's Shallow Marine Biodiversity

4. Project Partners

Q10. Project partners

Please list all the partners involved (including the Lead Organisation) and explain their roles and responsibilities in the project. Describe the extent of their involvement at all stages, including project development. This section should illustrate the capacity of partners to be involved in the project, and how local institutions, local communities, and technical specialists are involved as appropriate.

Please provide written evidence of partnerships. Please add fields for more partnerships, if required. Details on roles and responsibilities in this project must be given for the Lead Organisation and all project partners.

Lead Organisation name:	South Atlantic Environmental Research Institute (SAERI)
Details (including roles and responsibilities and capacity to engage with the project):	SAERI aspires to be a world renowned, environmental research institute. SAERI has the infrastructure and capacity to conduct environmental research throughout the South Atlantic. It has significant grant and project management and delivery experience which includes several previous Darwin Initiative projects. Dr Paul Brickle is established marine scientist and has managed a number of large projects successfully seeing them through to timely and successful delivery. SAERI has the data management infrastructure, the IMS-GIS centre, run by a full-time staff member, which will take care of the management of the entire life cycle of the data generated by the project. Data documentation and accessibility will be ensured through metadata (as requested by the research permit) and by creating a public facing webGIS service. Data storage occurs on a dedicated server backed up daily and off-site.

Do you have partners involved in the Project?

Yes

The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.

1. Partner Name:	Fisheries Department; Directorate of Natural Resources; Falkland Islands Government
Website address:	http://www.fig.gov.fk/fisheries/
Details (including roles and responsibilities and capacity to engage with the project):	The Falkland Islands Government Department of Natural Resources leads on the Falkland Island Fisheries, and as such is a key department in the marine environment. Dr Alexander Arkhipkin, an established marine ecologist, will sit on the Project Management Group (PMG) and will provide marine science and fisheries expertise to the project. The fisheries department holds key data useful to the project and also provides opportunity for sampling in the near shore MMA on their research vessel, RV Castelo.
Would you like to include a letter of support from this organisation?	<input checked="" type="radio"/> Yes
Letter of Support:	<p>The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.</p> <div style="border: 1px solid gray; height: 80px; width: 100%;"></div>

Do you have more than one partner involved in the Project?

Yes

2. Partner Name:	Shallow Marine Surveys Group (SMSG)
Website address:	www.smsg-falklands.org

<p>Details (including roles and responsibilities and capacity to engage with the project):</p>	<p>SMSG is a volunteer-based dive research group situated in the Falkland Islands. Since June 2006, SMSG has established itself as a centre of knowledge of near shore biodiversity in the Falklands, sub-Antarctic and South Atlantic regions. SMSG has supported the marine biodiversity needs of the Falkland Islands Government, Government of South Georgia & South Sandwich Islands, Government of Ascension and St Helena Islands and Tristan de Cunha Islands exploring their shallow subtidal and intertidal habitats, often for the first time. Dr Paul Brewin will sit on the PMG and will bring benthic ecology and modelling experience to the project. SMSG is a key partner particularly for the inshore MMA components of the project with regards to near shore scientific experience and access to SCUBA and boating facilities required for this project.</p>
<p>Would you like to include a letter of support from this organisation?</p>	<p><input checked="" type="radio"/> Yes</p>
<p>Letter of Support:</p>	<div style="border: 1px solid #ccc; height: 60px; width: 100%;"></div>

<p>3. Partner Name:</p>	<p>British Antarctic Survey</p>
<p>Website address:</p>	<p>https://www.bas.ac.uk/</p>

<p>Details (including roles and responsibilities and capacity to engage with the project):</p>	<p>David Barnes provides support in identifying key areas of biodiversity and ecosystem functioning. He will also aid with interpretation of ecological vulnerability, indicator group patterns, monitoring design and metricising benthos response to change. These provide contextual support to marine spatial planning, sustainable coastal use and effectiveness of conservation areas. In particular he has experience leading benthic biodiversity research cruises on RRS James Clark Ross and running low impact benthic ecosystem assessment apparatus.</p>
<p>Would you like to include a letter of support from this organisation?</p>	<p><input checked="" type="radio"/> Yes</p>
<p>Letter of Support:</p>	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>

<p>4. Partner Name:</p>	<p>Falkland Islands Government Policy Unit and Environmental Planning Department</p>
<p>Website address:</p>	<p>http://www.fig.gov.fk/policy/</p>

<p>Details (including roles and responsibilities and capacity to engage with the project):</p>	<p>The Policy Unit has a broad remit to provide economic and policy advice to Elected Members, the Central Management Team (CMT) and FIG Departments. The Unit assists in the development of specific economic and social programmes, working across Government and the community to support the attainment of the goals of the Islands Plan. The Policy Department will collaborate with the Economic Assessment / Impact of the MMA designs arrived at and will also collaborate on policy formulation for MMAs in the Falkland Islands. Diane will also sit on the PMG and her Policy and Economic expertise are a critical component of this project.</p> <p>The Environmental Planning Department comprises the services of the strategic planning, development management, conservation management and building advisory services. The Environmental function of the department is wide ranging and relates to management and regulation activities relating to protected species and habitats. Nick will sit on the PMG and provide environmental policy expertise to the MMA development process.</p>
<p>Would you like to include a letter of support from this organisation?</p>	<p><input checked="" type="radio"/> Yes</p>
<p>Letter of Support:</p>	<div style="border: 1px solid black; height: 60px; width: 100%;"></div>

<p>5. Partner Name:</p>	<div style="border: 1px solid black; height: 30px; width: 100%;"></div>
<p>Website address:</p>	<div style="border: 1px solid black; height: 30px; width: 100%;"></div>
<p>Details (including roles and responsibilities and capacity to engage with the project):</p>	<div style="border: 1px solid black; height: 70px; width: 100%;"></div>

<p>Would you like to include a letter of support from this organisation?</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p>
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<p>6. Partner Name:</p>	<p> </p>
<p>Website address:</p>	<p> </p>
<p>Details (including roles and responsibilities and capacity to engage with the project):</p>	<p> </p>
<p>Would you like to include a letter of support from this organisation?</p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p>

If you require more space to enter details regarding Partners involved in the Project, please use the text field below.

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5. Project Staff

Q11. Project staff

Please identify the core staff on this project, their role and what % of their time they will be working on the project.

These should match the names and roles in the budget spreadsheet.

Please provide 1 page CVs for these staff.

Name (First name, Surname)	Role	% time on project	CV attached below?
Dr Paul Brickle	Project leader	10	<input checked="" type="checkbox"/>
tbc	Project Manager	10 0	<input checked="" type="checkbox"/>
tbc	Project Officer	10 0	<input checked="" type="checkbox"/>
Dr iLaria Marengo	Data management	10	<input checked="" type="checkbox"/>

Do you require more fields?

Yes

Name (First name, Surname)	Role	% time on project	CV attached below?
Dr David Barnes	Principle Investigator Southern MMA Cruise	7	<input checked="" type="checkbox"/>
Dr Paul Brewin	Ecologist and Modeller	5	<input checked="" type="checkbox"/>
Dr Alexander Arkhipkin	Specialist Fisheries Advice	5	<input checked="" type="checkbox"/>

Diane Simsovic	Government Policy Advice	5	<input checked="" type="checkbox"/>
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Please provide 1 page CVs (or job description if yet to be recruited) for the Project staff listed above. Ensure the file is named clearly, consistent with the named individual and role above.

The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.

Have you attached all Project staff CVs?

Yes

6. Background & Methodology

Q12. Summary of Project

Please provide a brief summary of your project, its aims, and the key activities you to undertake. Please note that if you are successful, this wording may be used by Defra in communications e.g. as a short description of the project on GOV.UK. Please bear this in mind, and write this summary for a non-technical audience.

Phase II of the Marine Spatial Planning (MSP) Project included an Assessment of Fishing Closure Areas (as potential MPAs) against international criteria. Three areas were identified amounting to 15.31% of FI waters. Key baseline work is required for their effective design and management. Five steps have been identified for FIG approval; development of 1) economic consequences of the design (present and future), 2) Policy formulation, 3) Site Management Plans, 4) Suggested legislative framework and 5) Legacy Planning (resourcing, financial, human).

Q13. Background

What is the current situation and the problem that the project will address? How will it address this problem? What key OT Government priorities and themes will it address?

Marine Spatial Planning (MSP) within the Falkland Islands was first explored during a successful two-year Darwin-Plus funded project (DPLUS027). Following its successful conclusion FIG contracted SAERI to undertake a second phase (MSP Phase II) which covered three key aspects including an Assessment of Fishing Closure Areas as Sites (AFCAS) as potential MMAs against international criteria for MPAs in the Falkland Islands. Three areas were identified which would comprise 15.31% of FI waters.

The project will use diverse, cutting-edge scientific methods to build on an integrated understanding of Falkland Islands marine ecosystems. In conjunction with stakeholders, evidence-based recommendations would be developed to zone MMAs in three AFCAS areas identified. Following agreed, informed designs, economic assessment will aid understanding present and future consequences of policy formulation with FIG's Policy Department. MMA site management plans will be consulted upon. Relevant legislative frameworks will be drafted to support designation and site management plans ready for FIG approval and designation.

The Falkland Islands economy is reliant on its marine environment; fisheries and tourism are major contributors to GDP. Developing hydrocarbon resources will contribute significantly to the economy. With such marine environment reliance stakeholder consultation and engagement will be a key component of this project.

Q14. Methodology

Describe the methods and approach you will use to achieve your intended outcomes and impact. Provide information on how you will undertake the work (materials and methods) and how you will manage the work (roles and responsibilities, project management tools etc). Give details of any innovative techniques or methods.

This project will be delivered via 4 work-packages:

1. Work-Package 1-Data Collection Inshore – Data Collection Inshore: Fine scale data gathering in the 3 nm baseline to better delineate categories in the proposed inshore MMA. This is will include more benthic work in the proposed nature reserve areas (Jasons, Beauchêne and Bird Islands). Multibeam and dropdown camera work in depths greater than SCUBA. There is a gap in knowledge between 15 – 20m to about 100 m. In conjunction with data collection from the project, historical data from research cruises from the fisheries department will also be analysed. Different modelling approaches (e.g. MaxEnt, BRT, GAM) will be undertaken to examine suitable habitat for sensitive habitats like biogenic reefs etc. A significant amount of additional tracking work has been conducted since the higher predators model used in MSP project. These will be consolidated and re-analysed to inform spatial and temporal seabird and marine mammal abundance.

2. Work-Package 2-Data Collection Southern MMA and Burdwood Bank: Data gathering on the Burdwood Bank using a research vessel to: 1) Mapping Bathymetry from 200 – 2000m; 2) SUCS camera landers for epibenthic characterisation 2) Agassiz trawl (AGT) for benthic ground truthing; 3) CTD (oceanography); 4) Pelagic nets for bathypelagic ecosystems. E.g. Myctophids (lantern fish) are abundant in that region and there has been mention of this within the fishing community; 5) Consolidate ROV, multibeam, core, grab and other data from the northern part of the bank and slopes from the oil industry. The multibeam, benthic work and consolidated data will allow modelling of the bank and its slope for habitats etc. and allow for fine scale design.

3. Work-Package 3- Designing the MMAs: Will bring together data from 1 and 2, along with bio-economic data from the fishery, and use objective decision support tools (e.g. Marxan, Zonation) to help identify optimal locations for MMA delineations under different future resourcing models. Policy and legislative frameworks will be developed as parallel but interlinked processes. Design, and associated policy and legislation options will be presented at a local workshop and a follow-up reports will be circulated for stakeholder review. This stage will also allow for a preliminary analysis of the economic impacts (negative / positive) of the MMA designs.

4. Work-Package 4 – Designating the MMAs: WP3 stakeholder agreed policy, legislation and design recommendations will be fed into MMA site management planning which will also undergo a stakeholder review process, through the regular Project Stakeholder group meetings. A review of resourcing requirements (financial and human) for designation will be undertaken and the ‘designation package’ (design, policy legislation, impact and resource) will be submitted to relevant government committees for approval.

Project management. The project will be delivered by a full-time Project Manager and a postgraduate project officer working between SAERI and FIG and supported by a network of collaborators. All partners will form part of project management group who will oversee the project delivery and a wider stakeholder group will be regularly convened for the duration of the project.

If necessary, please provide supporting documentation e.g. maps, diagrams etc., using the File Upload below. The limit for any single file uploaded as supporting materials with your application is 6MB. Please ensure documents are saved in PDF form where possible in order to minimise size.

File name	Date uploaded
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7. Objectives, Stakeholders & Sustainability

Q15. Project Objectives

How does this project:

- Deliver against the priority issues identified in the assessment criteria
- Demonstrate technical excellence in its delivery
- Demonstrate a clear pathway to impact in the OT(s)

A) Priority Issues

- **Priority areas:** The project is well aligned with priority funding areas identified in Round 6, in particular 1) Improving marine conservation, protection or management including developing integrated marine management plans, 2) Developing ecosystem-based initiatives for the conservation and sustainable use of terrestrial and marine environments and 3) Developing data systems on biodiversity.
- **Contribution to MEAs:** Will make an important contribution towards FIG meeting CBD objectives, in particular Aichi Targets 11 (10% of oceans in marine protected areas), 10 (Vulnerable Ecosystems) and 19 (biodiversity knowledge improved). Will also contribute towards commitments under ACAP (albatross and petrels) and CMS for Appendix I and II species (cetaceans, fur seals, sea lions).
- **National Commitments:** Will help FIG to meet commitments under the Falkland Island Environment Charter, in particular commitments 2 (wise use of natural resources), 4 (to seek expert advice and consult openly with interested parties on decisions affecting the environment), 5 (to aim for solutions which benefit both the environment and development), 7 (safeguard and restore native species, habitats and landscapes, and control or eradicate invasive species) and 10 (study and celebrate our environmental heritage as a future treasure). It addresses Falkland Islands Biodiversity Framework priority areas, particularly coastal, shelf and marine species and ecosystems.
- **Long term strategy:** The lack of FI integrated land/sea zoning and management was identified as a top priority in the 2012 workshop report from the FCO/JNCC funded project 'Environmental Mainstreaming'. This project develops the long-term strategy for managing the FI marine environment as well as guidance for rapid and measurable progress in marine conservation. This includes networks of marine protected and managed areas in ways consistent with MEA best-practice, especially in relation to CBD. The project aligns with local Biodiversity Framework priorities, within which progress on marine aspects stalled through resource starvation. Data collated and analysed will provide a synthesis of available evidence for new development policy, planning and implementation

B) Technical Excellence

- The project will deliver a suite of novel, highly integrated, ecosystem-based approaches, maximising data already available, to deliver informed MMA designs. A state-of-the-art research vessel will survey the southern FI areas and be complimented by novel inshore survey techniques. The IMS-GIS Centre for the South Atlantic (by SAERI) will also offer important synergies. Baseline knowledge of FI biodiversity will be consolidated using GIS and geospatial analyses.

C) Impact

- This project will be developed through local stakeholders (with access to information and advice on global, regional and UK best practice) to provide FIG with expert input for guidance through local government mechanisms and processes. The project will be run by Falkland Islanders, for Falkland Islanders, building substantial local capacity and availability for essential follow-on work. The process, outcomes, and expertise generated from this project will provide a model for other OTs.
- Anticipated outcomes: Enablement of designation and effective long-term management of Falkland Islands MMAs to significant regional and international impact. Comprehensive dissemination will maximise outreach of project outputs to users outside of the Territory.

Q16. Project Stakeholders

Who are the stakeholders for this project and how have they been consulted (include local or host government support/engagement where relevant)? Briefly describe what support they will provide and how the project will engage with them.

FIG is a primary stakeholder through their responsibilities defined in the Biodiversity Framework, research permitting and spatial planning policies. FIG will be directly engaged as project partners and members of the Project Management Group (PMG). Primary stakeholder SMSG are also project partners again directly engaged in the project as members of the PMG. FIG Fisheries Department, Environmental Planning and Policy Departments will also be part of the Project Stakeholder Group (PSG).

Partners shared a project concept note highlighting data gaps, issues and solutions. Through feedback the project design has been a locally-led iterative process. All stakeholders who are project partners have been fully consulted, have prepared letters of support and will be part of the PMG. Off-island partners have been integrated into the project to bring technical guidance and links to new and emerging technologies.

The PMG will have access to the project's most current information and outputs through the cloud-sharing platform Share-point.

A project stakeholder group will be created and meet regularly within the project life-cycle and stakeholder workshops form an integral part of the consultation process

Community support is essential to project success, particularly on FI, especially through the use of volunteers and landowner assistance at field-sites. Significant effort will be made to regularly inform all parties and the wider community including through

direct liaison, on-line resources, local media and the SAERI newsletter.

Q17. Institutional Capacity

Describe the lead organisation's capacity (and that of partner organisations where relevant) to deliver the project.

South Atlantic Environmental Research Institute

SAERI is an FIG initiative. SAERI aspires to be a world renowned, well branded environmental research institute. SAERI has the infrastructure and capacity to conduct environmental research throughout the South Atlantic from the equator to the ice in Antarctica. SAERI's director is an established marine scientist with many years' experience managing and co-ordinating multi institutional research projects. SAERI's IMS-GIS data centre, run by a full-time staff member, will take care of the management of the entire life cycle of the data generated by the project. Data documentation and accessibility will be ensured through filling the metadata form (as requested by the research permit) and by creating a user-friendly and easy to use webGIS service open to the wide public. Data storage occurs on a dedicated server backed up daily and off-site.

Falkland Islands Government Fisheries Department

FIFD has managed fisheries since 1987, and is considered to be a world leader in fin-fish and squid fishery science and management. The department has also conducted a great deal of research into the Falkland Islands offshore ecosystems, this data and knowledge will be crucial to this project.

Falkland Islands Government Policy Unit

The Policy Unit has a broad remit to provide economic and policy advice to Elected Members, the Central Management Team (CMT) and FIG Departments. The Unit assists in the development of specific economic and social programmes, working across Government and the community to support the attainment of the goals of the Islands Plan.

Falkland Islands Government Environmental Planning Department

The Environmental Planning Department comprises the services of the strategic planning, development management, conservation management and building advisory services. The Environmental function of the department is wide-ranging and relates to management and regulation activities relating to protected species and habitats.

Shallow Marine Surveys Group

SMSG has a successful track record of gaining competitive research funding domestically, and from overseas in the fields of subtidal marine ecology, biodiversity and conservation, and fisheries science. SMSG is headed by a core group of experienced biologists and divers who carry out marine ecological research that contributes to local and regional conservation policy initiatives. The scope of the work includes the splash zone, intertidal and subtidal of Falkland Islands' shores, and recently South Georgia, Ascension Island, St Helena, and Tristan da Cunha.

British Antarctic Survey

BAS marine biological expertise led scientific input into the world's first MPA located entirely within the High Seas, situated within the CCAMLR Convention Area south of the South Orkney Islands. BAS scientists also worked closely with the Government of South Georgia and the South Sandwich Islands to develop the SGSSI MPA, the World's largest sustainably managed MPA. BAS is currently involved in various projects to promote sustainable use of marine shelf environments around Ascension, St Helena, Tristan da Cunha and South Georgia so this work would fit well within wider south Atlantic islands and OTs planning.

Q18. Sustainability

How will the project ensure benefits are sustained after the project has come to a close? If the project requires ongoing maintenance or monitoring, who will do this and how will it be funded?

This project directly contributes to FIG's long-term vision for biodiversity conservation and management targets. It will enable FIG to plan for, and manage, sustainable development of the marine environment.

It will enable monitoring of potential climate change impacts on habitats, community structure, species and populations. Biodiversity and community ecology analyses of data will provide reference points with which comparisons can be made with future surveys/monitoring to elucidate any climate change impacts.

It will provide the foundation (of data and options for policy and practice) for FI MMAs. Given the need to ensure sustainable development of local (and regional) marine resources in balance with conservation and protection of marine stocks, species, habitats and systems, FIG and all stakeholders have a common interest in ensuring the future development and viability of this process.

It is being delivered with BAS as partners who will provide considerable benthic ecology expertise to scientists in the islands, important for ongoing monitoring work.

Public facing web-GIS will be developed for the community and decision-makers containing data collected, modelling outputs and delineations for designated areas, and updated past the project as new information is received. It will act as a functional management tool for the MMAs for FIG.

8. Funding and Budget

Q19. Budget

Please complete the appropriate Excel spreadsheet linked below, which provides the Budget for this application. Some of the questions earlier and below refer to the information in this spreadsheet. Note that there are different templates for projects requesting over and under £100,000 Darwin Plus budget.

R6 D+ Budget form for projects under £100,000

R6 D+ Budget form for projects over £100,000

Please refer to the Finance Guidance for more information.

N.B.: Please state all costs by financial year (1 April to 31 March) and in GBP.

Budgets submitted in other currencies will not be accepted. Use current prices – and include anticipated inflation, as appropriate, up to 3% per annum. The Darwin Initiative cannot agree any increase in grants once awarded.

Please upload your completed Darwin Plus Budget Form Excel spreadsheet using the field below.

Q20. Co-financing

Are you proposing co-financing?

Yes

Secured

Provide details of all funding successfully levered (and identified in the Budget) towards the costs of the project, including any income from other public bodies, private sponsorship, donations, trusts, fees or trading activity, as well as any your own organisation(s) will be committing.

(See “Finance for Darwin & IWT” and the "Guidance for Applicants" documents)

1. SAERI will be providing in-kind support for the project through human resources
2. BAS will be providing in-kind human resource support as well as on the James Clark Ross research vessel
3. SMSG will be providing in-kind diving support of 6 divers for 20 days
4. The Castello research vessel will be provided in-kind
5. Dr Paul Brewin will provide his time in-kind
6. FIG Fisheries, Policy and EPD departments will provide their time in-kind

Total additional funding secured £259,523

Unsecured

Provide details of any co-financing where an application has been submitted, or that you intend applying for during the course of the project. This could include co-financing from the private sector, charitable organisations or other public sector schemes.

Date applied for	Donor Organisation	Amount	Currency code	Comments
14/08/2018	Falkland Islands Government	7500	GBP	FIG have committed to funding from the Environmental Studies budget, and we estimate this amount per year
14/08/2019	Falkland Islands Government	7500	GBP	FIG have committed to funding from the Environmental Studies budget, and we estimate this amount per year

14/08/2020	Falkland Islands Government	7500	GBP	FIG have committed to funding from the Environmental Studies budget, and we estimate this amount per year

Please give brief details including when you expect to hear the result. Please ensure you include the figures requested in the Budget Spreadsheet as Unconfirmed funding.

FIG Environmental Studies Budget allocations are approved mid September annually - so the results of the submissions outlined above will be c. 14th September 2018; 14th September 2019 and 14th September 2020 respectively.

Do you require more fields?

No

9. Financial Controls, Value for Money & Open Access

Q21. Financial Controls

Please demonstrate your capacity to manage the level of funds you are requesting. Who is responsible for managing the funds? What experience do they have? What arrangements are in place for auditing expenditure?

SAERI is a Charitable Incorporated Organisation registered in England and Wales. Grant payments will be administered by SAERI's Deputy Director - Business & Programmes who will also track project expenditure. Funds will be in a ring-fenced project specific account with only the accountant, the Project Leader and the Deputy Director having access. The Deputy Director has donor fund management, charity CEO and investment fund management experience.

SAERI's accounts will be annually audited. The accountancy system and management controls were proven through previous funding awards of similar magnitude. Prior to splitting from FIG, SAERI's accounts were audited with FIG infrastructure (see accompanying letter) from FIG Treasury. SAERI has also successfully completed and audited DPLUS027.

The Project Leader, under the guidance and approvals of the Deputy Director, will present a quarterly budget for approval to the PMG and submit quarterly financial reports to the funder as tracking performance against those budgets.

Q22. Financial Management Risks

Explain how you have considered the risks and threats that may be relevant to the success of this project, including the risks of fraud or bribery.

SAERI has standardised financial policies and procedures which have clear checks and balances for managing all of the organisations finances. It manages multiple projects from multiple funding sources and strict financial reporting procedures are adhered to.

The financial controls outlined in the section (Q21) above form an integral part of the systems in place to mitigate against any threats or risks of fraud or bribery.

Furthermore the organisation is developing its anti-corruption and bribery policy to further mitigate the potential of any risk in this area.

Q23. Value for money

Please explain how you worked out your budget and how you will provide value for money through managing a cost effective and efficient project. You should also

discuss any significant assumptions you have made when working out your budget.

SAERI has galvanised (44%) match funding for the project. Some of this is a contribution of time from the research vessels which, given the cost of commissioning off-shore research vessels (particularly in remote areas) represents significant value for money.

Our on island government partners have contributed their time as in-kind showing not only good value for money but a clear commitment to the project and its delivery, which is particularly important as policy impact is a desired project outcome which can only be delivered by FIG partners.

Therefore there is important match funding from the project partners' institutions, and the Department of Fisheries which provided the use of laboratory facilities. The international project partners contribute very specifically in areas where additional expertise is required to complement on-island expertise, which limits the costs associated with international charge out rates and travel etc.

SAERI is a territory-based organisation and therefore a full-time project manager based on island for will be significantly less than short-term visits by offshore contractors.

The budget was calculated from actual costs incurred by SAERI in managing similar projects. Emphasis has been given to provide the project with the necessary equipment and expertise for success.

Q24. Outputs of the project and Open Access

All outputs from Darwin Plus projects should be made available on-line and free to users whenever possible. Please outline how you will achieve this and detail any specific costs you are seeking from Darwin Plus to fund this.

Processes established under the project work mean all outputs will be made available online and free to use whenever possible.

- Information: Reports, meeting notes, training manuals, volunteer resources etc. will be made available online via the dedicated project webpages set up on the SAERI website. Project partners will link through to these web pages, and provide relevant updates
- Falklands-related data will be deposited in the IMS-GIS data centre. Protocols on data documentation, security, access, preservation of ownership and intellectual property rights are in place. The single centralised location and standardised data request procedure maximise the profile and accessibility of existent data. SAERI is ideally placed to ensure and promote the promulgation and use of project data. All metadata generated will be available online via the South Atlantic metadata catalogue. Additionally, the data will be accessible online to everyone through the project-based

webGIS service. Previous Darwin projects (DPLUS027, DPLUS063) and current ones (DPLUS052, DPLUS042) have already and will be published online. The data manager will be responsible for keeping the data on a spatial database as much as possible and allow data sharing among the project partners to facilitate the collaboration. All data, after being published by the researchers involved in the project, will be available as open access.

All peer-reviewed journal articles will be targeted at open source journals and there is some institutional budget to ensure this.

The project will of course also adhere to the DPLUS data requirements as outlined in the DPLUS Terms and conditions.

10. Logical Framework

Q25. Logical Framework

Darwin Plus projects will be required to report against their progress towards their expected outputs and outcome if funded. This section sets out the expected outputs and outcome of your project, how you expect to measure progress against these and how we can verify this.

Annex D and Annex E in the Guidance Notes provides helpful guidance on completing a logical framework, including definitions of the key terms used below.

Impact:

A Policy and legislative framework for Marine Management Areas will be established on the Falkland Islands with new designations and supporting costed implementation options

Project Summary	Measurable Indicators	Means of Verification	Important Assumptions
<p>Outcome:</p> <p>Designation of new Marine Management Areas around the Falkland Islands</p>	<p>0.1 At least 3 Marine Management Area designated around the Falkland Islands by date</p> <p>0.2 At least 1 MMA enabling policy drafted by date</p>	<p>0.1 MMA designation announced in the Falklands media</p> <p>0.2 MMA policy paper submitted to the Falklands Executive Council</p>	<p>Staffing turnover in FIG enables the continued progress of policy development</p> <p>Political will for this process will be maintained by through regular consultation and discussion</p>

Output 1:

Project Management structure, monitoring, evaluation and communications tools established

1.1 A Memorandum of Understanding (MoU) agreed and signed by all partners by May 2018
1.2 Project Manager recruited by August 2018
1.3 A Project Management Group (PMG) meeting held every 3 months starting May 2018
1.4 A Project Stakeholders group (PSG) meeting held every 6 months starting May 2018
1.5 At least 1 project webpage created by April 2018, and at least 1 update to the page made every 3 months.
1.6 1 Monitoring and evaluation plan created by October 2018
1.7 Regular DPLUS reports submitted as

1.1 MoU signed by all parties
1.2 Project Manager employment contract signed
1.3 PMG meeting notes available online
1.4 PSG meeting notes available online.
1.5 Project webpage available for viewing online
1.6 Monitoring and evaluation plan available online
1.7 DPLUS reports available to project partners.

Recruitment results in appropriate candidate being recruited and available to be on island within the given time frame.

Continued resource from project partners available to engage with the project for its duration

	required (yearly and half-yearly)		
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Output 2:

Work-Package
1-Data
Collection
Inshore

2.1 x (2) of inshore sites identified for inshore benthic data collection (small boat dive, drop down camera, multibeam) Y1 Q4, Y2 Q3
2.2 x (2) x inshore benthic data (large multiday live aboard, multibeam, drop down camera, dive) collection trips carried out in Y2 Q1
2.3 At least x (80) new data sets and existing data sets will be cleaned and collated by the end of Y3 Q1
2.4 Modelling analyses, analysis outputs will be produced by end of Y3 Q1. This includes new data from higher predator tracking gained since 2014 and new benthic data collated from SMSG

2.1 Map to show data collection sites available to project partners
2.2 Survey reports written and made available online
2.3 Metadata records for new data available online
2.4 WebGIS project available online; data and modelling data reviewed by PMG and external collaborators

Weather conditions enable data collection within the proposed time period.

Output 3:

Work-Package
2-Data
Collection
Southern
MMA and
Burdwood
Bank

3.1 x (1)
Research
cruise
organised for
the Burdwood
Bank in Y1 Q3
3.2 x (1)
Research
cruise
undertaken by
Y1 Q3
3.3 At least 20
new data sets
cleaned and
collated by Y2
Q4
3.4 Modelling
analyses and
biodiversity
analyses
output will be
produced by
Y2 Q4. This
includes new
data from
higher
predator
tracking
gained since
2014 and new
benthic data
collated from
the
hydrocarbons
industry

3.1 Research
cruise plan
available to
partners
3.2 Cruise
report written
and made
available
online
3.3 Metadata
records for
new data
available
online
3.4 WebGIS
project
available
online; data
and modelling
data reviewed
by PMG and
external
collaborators

Weather
conditions
enable data
collection
within the
proposed time
period.

Output 4:

Work-Package
3- Designing
the MMAs

4.1 Proposal with options for potential future MMA designs prepared by Y2 Q4
4.2 Study of economic impact of the designs undertaken by Y2 Q2
4.3 Analysis of the economic impacts of MMA designs undertaken by Y2 Q4
4.4 Draft MMA legislation undertaken by Y2 Q2
4.5 Draft MMA policy undertaken by Y1 Q4
4.6 At least 20 stakeholders attend local consultation workshop in Y2 Q4

4.1 MMA designation options proposal paper available to partners and stakeholders
4.2 Economic impact study available to partners
4.3 Report on Analysis of the economic impacts of MMA designs available to partners and online
4.4. draft legislation circulated to partners
4.5 draft policy circulated to partners
4.6 Workshop report circulated to all partners and attendees.

Stakeholders available and have capacity to engage in the workshop within the given timeframe

Policy and legal departments have the capacity to engage in the drafting processes within the given timeframe.

<p>Output 5:</p> <p>Work-Package 4 – Designating the MMAs</p>	<p>5.1 3 MMA site management plans prepared by Y3 Q1</p> <p>5.2 Review of the resourcing requirements of designation undertaken by Y3 Q1</p> <p>5.3 At least 20 stakeholders attend local consultation on the 'MMA designation package' by Y3 Q2</p> <p>5.4 'MMA Designation package' submitted to Exco for consideration by Y3 Q3</p>	<p>5.1 MMA management plans available to partners and stakeholders</p> <p>5.2 Resourcing requirement review available to partners and stakeholders</p> <p>5.3 Stakeholder attendance and active participation at the workshop</p> <p>5.4 Workshop report available online</p> <p>5.5 Exco paper submitted</p>	<p>Stakeholder buy in secured through continuous engagement and workshops. Active FIG engagement and FIG project partners help with political buy in.</p>
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Do you require more Output fields?

It is advised to have less than 6 Outputs since this level of detail can be provided at the Activity level.

No

Activities

Each activity is numbered according to the output that it will contribute towards, for example 1.1, 1.2 and 1.3 are contributing to Output 1. Each new activity should start on a new line.

- 1.1 A Memorandum of Understanding (MoU) agreed and signed by all partners
- 1.2 Project Manager recruited
- 1.3 A Project Management Group (PMG) meeting held every 3 months
- 1.4 A Project Stakeholders group (PSG) meeting held every 6 months
- 1.5 Project webpage created and updated every 3 months
- 1.6 Monitoring and evaluation plan created

- 1.7 Regular DPLUS reports submitted as required (yearly and half-yearly)
- 2.1 inshore sites identified for inshore benthic data collection (small boat dive, drop down camera, multibeam)
- 2.2 Inshore benthic data (large multiday live aboard, multibeam, drop down camera, dive) collection trips carried out
- 2.3 New data sets and existing data sets will be cleaned and collated
- 2.4 Modelling analyses and biodiversity analyses outputs produced
- 3.1 Research cruise organised for the Burdwood Bank
- 3.2 Research cruise undertaken by
- 3.3 New data sets cleaned and collated
- 3.4 Biodiversity analyses outputs will be produced
- 4.1 Proposal with options for potential future MMA designs prepared
- 4.2 Study of economic impact of the designs undertaken
- 4.3 Analysis of the economic impacts of MMA designs undertaken
- 4.4 Draft MMA legislation undertaken
- 4.5 Draft MMA policy undertaken
- 4.6 Local workshop consultation
- 5.1 MMA site management plans prepared
- 5.2 Review of the resourcing requirements of designation undertaken
- 5.3 Local consultation on the 'MMA designation package'
- 5.4 'MMA Designation package' submitted to Exco for consideration

11. Implementation Timetable

Q26. Provide a project implementation timetable that shows the key milestones in project activities

Please complete the Excel spreadsheet linked below to describe the intended workplan for your project.

[Darwin Plus Implementation Timetable XLS](#)

Please add columns to reflect the length of your project.

For each activity (add/remove rows as appropriate) indicate the number of months it will last, and fill/shade only the quarters in which an activity will be carried out.

12. Monitoring and Evaluation

Q27. Monitoring and evaluation (M&E) plan

Describe, referring to the Indicators above, how the progress of the project will be monitored and evaluated, making reference to who is responsible for the project's M&E.

Darwin Initiative projects are expected to be adaptive and you should detail how the monitoring and evaluation will feed into the delivery of the project including its management. M&E is expected to be built into the project and not an 'add' on. It is as important to measure for negative impacts as it is for positive impact.

The project will be implemented as a partnership between SAERI, BAS, SMSG and FIG. These organisations will be members of the Project Management Group (PMG) whose main commitment and task is to monitor and steer the project.

The PMG will have equal membership of science- and policy-focussed organisations, which will audit the scientific integrity of the work and resource/climate change management-oriented organisations, which will ensure that local needs and aims are met.

A Memorandum of Understanding (MoU) between all of the project partners will be established at the start of the project and will articulate the roles and responsibilities of all parties in the delivery of the project

Additionally, as part of the Project management Structure, in the first six months of their appointment, the PM will prepare a detailed Monitoring and Evaluation (M&E) plan in which a set of evaluation questions will be used to assess the effectiveness of the project's outcomes as practical and useful support tools for managing climate change effects in the Falkland Islands. Specific monitoring questions will be used to answer the evaluation questions and will be checked through indicators, data sources/methods to obtain the data, and the responsibilities for data collection (as mentioned in the MoU).

The M&E plan will be then submitted to the PMG for sign off. Oversight of the delivery of the M&E plan will be the responsibility of the PM, signing off of the implementation of the M&E plan will be the responsibility of the PMG.

The PM will present a quarterly report on progress against deliverables, M&E and a quarterly financial report to the PMG which will check that the project delivers its outputs on time, within the proposed budget, and that the quality of the outputs is high standard. A component of the M&E budget allocation will be used to bring in specialist, independent review if identified as required by the PMG during and/or at the end of the project process.

A Project Stakeholder Group (PSG) will also be created as a formal approach to include the stakeholders on the Falklands. The six monthly meetings of this group will also provide an opportunity for a wider and more mixed audience to review and

comment on the outputs of the project.

Summary reports of the project's outcomes will also be provided to the FIG Environmental Committee through the FIG Environment and Planning department and to the Darwin Initiative as required by the donors reporting mandates.

An online project management and file-sharing system will be established to ensure all partners have access to relevant documents, targets, etc. irrespective of geographic location. Oversight of the delivery of the M&E plan will be the responsibility of the PM, signing off of the implementation of the M&E plan will be the responsibility of the PMG. A component of the M&E budget allocation will be used to bring in specialist, independent review if identified as required by the PMG during and/or at the end of the project process.

Number of days planned for M&E	30
Total project budget for M&E (this may include Staff and Travel and Subsistence Costs)	£16,469.00
Percentage of total project budget set aside for M&E (%)	5

13. Certification

Q28. Certification

On behalf of the

trustees

of

South Atlantic Environmental Research Institute (SAERI)

I apply for a grant of

£329,379.00

in respect of all expenditure to be incurred during the lifetime of this project based on the activities and dates specified in the above application.

I certify that, to the best of our knowledge and belief, the statements made by us in this application are true and the information provided is correct. I am aware that this application form will form the basis of the project schedule should this application be successful.

(This form should be signed by an individual authorised by the applicant institution to submit applications and sign contracts on their behalf.)

- I have uploaded CVs for project principals and letters of support.
- I have uploaded our most recent signed audited/independently verified accounts and annual report (if appropriate).



Name	Dr Paul Brickle
Position in the organisation	Director

Signature (please upload e-signature)	
Date	10/10/2017

If this section is incomplete the entire application will be rejected.

14. Submission Checklist

Checklist for submission

	Check
Have you read the Guidance documents, including the ' <u>Guidance Notes for Applicants</u> ' and ' <u>Finance Guidance</u> '?	<input checked="" type="checkbox"/>
Have you read, and can you meet, the current <u>Terms and Conditions</u> for this fund?	<input checked="" type="checkbox"/>
Have you provided actual start and end dates for your project?	<input checked="" type="checkbox"/>
Have you provided your budget based on UK government financial years i.e. 1 April – 31 March and in GBP?	<input checked="" type="checkbox"/>
Have you checked that your budget is complete, correctly adds up and that you have included the correct final total at Q7?	<input checked="" type="checkbox"/>
Has your application been signed by a suitably authorised individual?	<input checked="" type="checkbox"/>
Have you uploaded a 1 page CV for all the Project Staff (listed at Q11) on this project, including the Project Leader?	<input checked="" type="checkbox"/>
Have you included a letter of support from the applicant organisation, <u>main</u> partner(s) organisations and the relevant OT Government?	<input checked="" type="checkbox"/>
Have you uploaded a signed copy of the last 2 years annual report and accounts for the lead organisation, or provided an explanation if not?	<input checked="" type="checkbox"/>
Have you checked the <u>Darwin Plus website</u> to ensure there are no late updates?	<input checked="" type="checkbox"/>