

CONTACT DETAILS

Title Dr
Name Johanna
Surname Kohler
Organisation Cayman Islands Department of Environment
Website (Work) [REDACTED]
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Address [REDACTED]
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DPLR3\1044

Deep-diving behaviour of Caribbean reef sharks in the Cayman Islands

Section 1 - Project Title & Contact Details

Q1. Project Title

Deep-diving behaviour of Caribbean reef sharks in the Cayman Islands

Q2. Please select whether you are applying as an organisation or as an individual (Guidance section 3 and Guidance Glossary)

Organisation

CONTACT DETAILS

Title	Dr
Name	Johanna
Surname	Kohler
Organisation	[REDACTED]
Website (Work)	[REDACTED]
Tel (Work)	[REDACTED]
Email (Work)	[REDACTED]
Address	[REDACTED]

GMS ORGANISATION

Type	Organisation
Name	Cayman Islands Department of Environment
Phone	[REDACTED]
Email	[REDACTED]
Website	[REDACTED]
Address	[REDACTED]

Section 2 - Overseas Territory(ies)

Q3. Overseas Territory (Guidance section 1.3):

Which UK Overseas Territory(ies) will your project be working in? Please note that in case of a non-permanent resident population you need to demonstrate a clear, meaningful, long-term link to the territory.

Cayman Islands

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

No Response

In addition to the UKOT(s) you have indicated, will your project directly benefit any other UK OT(s) or country(ies)?

Yes

Please list these below and describe how they will benefit:

The proposed study will reveal novel ecological and spatial information, closing local and regional knowledge gaps in the ecology of the Caribbean reef shark (*Carcharhinus perezi*). Information on deep-diving behaviour, diel changes in vertical habitat use, and migration across national boundaries are currently not available within UKOTs. Thus, the results would not only benefit the effective long-term conservation of Caribbean reef sharks locally, but in UKOTs generally as well as regionally. Lastly, the method and technology proposed are repeatable and therefore has potential for application in studies of sharks and other larger, highly mobile, marine species in all UKOTs.

Section 3 - Project Partners

Q4. Project partners (Guidance section 3.2)

In this section, please give details of all the partners involved (including the Lead Partner) and provide a summary of their roles.

Project Leader name (Guidance section 3.1): Johanna Kohler, PhD

Lead Partner name (if applying as an organisation; Guidance section 3.1): Cayman Islands Department of Environment

Lead Partner Website (if applicable): www.doe.ky

Is the Lead Partner based in a UKOT where the project is working (Guidance section 3.1)? Yes

List other partners involved and where are they based:

Johanna Kohler (PhD), Shark Project Officer

Tim Austin, Deputy Director

Jeremy Olynik, Senior Geographic Information Systems Officer

Judy Hurlston, Public Education & Outreach Officer

Croy McCoy (PhD), Manager, Marine Research Unit

John Bothwell, Manager, Legislation Implementation & Coordination Unit (LICU); Secretary, National Conservation Council (NCC)

All partners are based at the Cayman Islands Department of the Environment, Grand Cayman, Cayman Islands.

Summary of roles and responsibilities of each partner in the project:

The lead partner, Department of Environment (DoE), will distribute the funds.

Johanna Kohler will be the project lead and will manage the budget, oversee the timeline, ensure achievement of each milestone, and will guarantee the completion of the project. Johanna will coordinate the delivery of on-island activities including: purchase, shipment, and programming of MiniPATs, coordination and completion of fieldwork, preparation of outreach materials, and will be performing data analyses, interpretation of results, and creation of deliverables.

Tim Austin will assist with the management of the budget, overseeing the achievement of each milestone, coordinate DoE staff, and will guarantee completion of the project together with the project lead.

Jeremy Olynik will assist with the creation of deliverables, together with the project lead.

Croy McCoy will assist with the management of DoE staff from the DoE Marine Resource Unit to conduct the fieldwork, together with the project lead.





Judy Hurlston will assist with the organisation of outreach campaigns, together with the project lead.

John Bothwell and Tim Austin will manage the implementation of project results and subsequent recommendations into the draft of a Species Conservation Plan (under the National Conservation Act 2013) and recommendations for a Habitat Action Plan and Marine Protected Areas (both under the National Biodiversity Action Plan, 2009) for offshore and deep-sea environments in the Cayman Islands.

I confirm that all listed partners are aware of this application and have indicated support:

Checked

Attach a Cover Letter for your application (Guidance section 4.2).

-  [Darwin+ Local Cover Letter Deep-diving reef sharks Nov 2023](#)
-  27/11/2023
-  20:09:56
-  pdf 747.8 KB

Section 4 - Project Summary & Description

Q5. Project Summary (Guidance section 3.8)

Please provide a brief summary of your project. This may be used in communication activities and/or published online, if your application is successful.

Pop-up satellite archival tags attached to individual Caribbean reef sharks will collect higher resolution data of their vertical habitat use and potential migrations into Exclusive Economic Zones (EEZs) of neighbouring nations from the Cayman Islands. This new information will advance the understanding of the ecological significance of this species in connecting shallow and deep-water habitats as well as identify critical deep-water habitat for its survival and to sustain effective long-term conservation of Caribbean reef sharks locally as well as regionally.

Q6a. Description (Guidance section 2.1 and 6)

Please provide a description of your project, including:

- the overall objective
- the current situation and the problem the project is trying to address
- what success will look like and how you will measure it

Please be as specific as possible when describing the project, using quantified data and evidence where available. You may wish to consider: what are the specific threats to the environment that the project will attempt to address, and what should we know about these threats? What does your successful project look like? And how will you demonstrate whether and how your project has been successful?

The overall objective of the proposed pilot study is to use pop-off satellite archival tags to reveal new spatial information facilitating the assessment of overlap between Marine Protected Areas (MPAs) and key habitats of the Endangered Caribbean reef shark population in the Cayman Islands. To be specific, this study will advance the understanding of (1) the functional significance of Caribbean reef sharks, in the ecological coupling of deep and shallow reef habitats and (2) the importance of Cayman's deep sea to the survival of this important apex predator.

Previous research has revealed the ecological and socio-economic significance of Caribbean reef sharks to the islands. In 2015, Cayman became the tenth nation to protect all shark species within national waters under the National Conservation Act (NCA, 2013). The local economy is highly dependent on tourism and with an ever-increasing resident population the marine environment is subject to coastal development and other anthropogenic disturbances, including recreational and artisanal fishing in both shallow and deep reefs, all of which have been proven to impact shark populations. Until recently however, most studies have focused on shark ecology near the shore, on the upper (<30 m) coastal shelf. While previous research revealed the wide-ranging nature of Caribbean reef sharks (including long-distance movements between all three islands), their vertical habitat use, broader movements in relation to Cayman's national waters, and role in the ecological

connectivity between the shallow and deep reef habitats remain poorly understood. In 2022, as part of ongoing work to map Cayman's deep-sea environment, the Caribbean reef shark was recorded at a depth of 200m. However, to date, higher resolution data on the (deep-)diving behaviour, temperature ranges, and diel changes in vertical habitat use by Caribbean reef sharks in Cayman have not been available. While no-take zones of MPAs extend to the 45m depth contour, deep-water fishing is unregulated. Therefore, the degree to which this species may travel outside of MPA boundaries and national protection, and thus become vulnerable to fishing activities at depth and exploitation elsewhere, is unknown. The knowledge-gap on the ecology of the local shark population paired with continued reports of dead sharks, despite proactive conservation efforts, has raised concern about the effective protection of this species locally.





Using pop-up satellite archival tags (MiniPATs, Wildlife Computers Inc.), this study aims to: (1) examine the deep-diving behaviour, (2) identify the temperature range, (3) examine the vertical habitat use, including differences between diel periods and sexes, and (4) horizontal long-distance movements by Caribbean reef sharks in the Cayman Islands. MiniPATs will be attached to the first dorsal fin of 5 adult Caribbean reef sharks. Sharks will remain in the water, no anaesthesia will be used, and all procedures are standard practice and in accordance with DoE and National Conservation Council (NCC) animal handling protocols. Tags will record continuously and will archive depth, temperature and light-level data which can be used to then interpolate daily GPS locations. Tags are expected to stay attached for minimum 3 months and maximum 6 months before their connections corrode (at scheduled dates) and the tags detach from the animals. Tags will float to the surface and will start transmitting the stored data via a signal to earth orbiting satellites. The depth, temperature and geolocation data will be analysed and plotted for each individual, and the proportion of time spent in Cayman's national waters, as well as neighbouring EEZs will be calculated. Lastly, recommendations will be made to inform the NCC and DoE's Legislation Implementation and Coordination Unit (LICU) about the ecological criteria needed to sustain the long-term survival of Caribbean reef sharks locally as well as regionally.

Q6b. Long-term sustainability (Guidance section 2.1 and 6)

Please describe the long-term benefits of the project and the change it will bring about. How will the outcomes of the project be sustained after the funding is finished?

While this proposed study will augment the existing national protection for sharks, it will also provide insights into the ecological criteria needed to sustain the long-term conservation of Caribbean reef sharks locally and regionally. The new spatial and ecological information for Caribbean reef sharks will benefit the understanding of the ecological coupling of deep and shallow reef habitats and potentially reveal migratory behaviours to neighbouring countries. The results from the study will benefit Cayman beyond the duration of this project as the results will be (1) included in a list of recommendations to inform the impending Species Conservation Plan for Caribbean reef sharks as well as the Habitat Action Plan for Cayman's deep-sea and national maritime boundary negotiations with neighbouring nations and (2) incorporated in outreach material, particularly for school and public talks, in order to reinforce ongoing public awareness campaigns and the engagement of local communities in shark conservation.

(Optional) Please upload any additional and supporting materials or files (such as maps of project sites, etc) below. Maximum of 5 sides of A4, and is combined as a single PDF:

-  [CV_JOHANNA KOHLER NOV2023](#)
-  27/11/2023
-  20:20:36
-  pdf 144.25 KB

Section 5 - Project Outcome(s)

Q7. Project Outcome(s) (Guidance section 1.2)

Successful Darwin Plus Local projects must demonstrate measurable outcomes in at least one of the themes of Darwin Plus with a clear focus on biodiversity and the natural environment, either by the end of the project or soon after through a credible plan.

Please confirm that your project has a clear focus on biodiversity and the natural environment.

Checked	Biodiversity: improving and conserving biodiversity, and slowing or reversing biodiversity loss and degradation;
Unchecked	Climate change: responding to, mitigating and adapting to climate change and its effects on the natural environment and local communities;
Checked	Environmental quality: improving the condition and protection of the natural environment
Checked	Capability and capacity building: enhancing the capacity within OTs, including through community engagement and awareness, to support the environment in the short- and long-term.

Please justify your selection. Please use quantitative information where possible here.

The knowledge gained on the vertical habitat use and potential migrations into neighbouring EEZs by the Endangered Caribbean reef shark in the Cayman Islands is needed to sustain effective long-term conservation efforts locally as well as the facilitation of regional networking. The results will support existing national protection for sharks and, while being subject to the effects of climate change and anthropogenic activities, highlight the potential importance of Cayman's deep-sea to the overall survival of this ecologically important apex predator. The local community will be engaged through project transparency and outreach to advance the awareness about shark conservation.

Section 6 - Workplan

Q8. Workplan (Guidance section 2.2)

Please provide anticipated dates for the start and end of your planned project here. Please use the Darwin Plus Local Project Workplan (available at: [Darwin Plus website](#)) to provide a list of the individual activities you have planned for this project, a brief description of what each activity entails, and the months in which the activities will be carried out. If the project involves only one activity (e.g. a purchase), please still provide project start and end dates (noting estimated times for procurement). Please note that your project must start after 1 April 2024 and be completed by 31 March 2025.

Start date:	End date:	Duration (e.g. 3 months):
01 April 2024	31 March 2025	12 months

Please upload the completed Darwin Plus Local Project Workplan with your proposed project activities here

R3-DPlus-Local-Workplan_Deep-diving reef shar
ks FINAL
27/11/2023
19:15:27
pdf 131.02 KB

Section 7 - Costs

Q9. Costs (Guidance section 2.2 and please read the Finance Guidance)

Please provide a breakdown of costs to be funded through Darwin Plus Local (in GBP).

Are you seeking any matched funding for this project?

Yes

How much matched funding are you seeking and where from?

[REDACTED]

Budget line	Explanation	Cost in GBP
Staff costs:	This represents the costs associated with staff salary payments made to the project lead being paid for the time spent working on the project. DoE will match 55% of this salary payment and 100% of the costs associated with the salary payment for the other staff members part of this project.	[REDACTED]
Consultancy costs:	N/A	£0.00
Overhead costs:	DoE will contribute 100% of overhead costs.	£0.00
Travel & subsistence costs:	DoE will contribute 100% of travel & subsistence costs.	£0.00
Operating costs:	This represents the cost associated with data transfers via the Argos satellite system. This is a commercial service provided by a third-party company. The anticipated cost for tag set-up and data transfer is approximately [REDACTED] per tag. We anticipate to deploy 5 tags for a total of [REDACTED]	[REDACTED]

Capital equipment:	There is no capital cost for this proposal because "tags" should be listed as "other costs" per guidelines. We would like to highlight that the MiniPATs are reusable, if retrieved post pop-off. Retrieved tags can be refurbished and redeployed for future studies. Nevertheless, costs for tags are listed as "Other Costs".	£0.00
Other Costs	This represents the costs of the purchase and shipping of pop-off satellite archival tags (MiniPATs). The unit price is approximately [REDACTED] and shipping is anticipated to cost [REDACTED]. We anticipate deploying 5 tags in the field for a total of [REDACTED].	[REDACTED]
Total:		[REDACTED]

This section provides more information on the budget to help evaluators understand how you will use the funds you are requesting. You do not need to list all costs, but please list and detail costs of more than £1,000 per item below, under the appropriate budget line.

Details of staff costs over £1,000 (if relevant)

Johanna Kohler (PhD), Shark Project Officer, for 45% of her time to manage the delivery of on-island activities including the purchase, shipment, and programming of MiniPATs, coordination and conduction of fieldwork, the preparation of outreach material, and data analysis, interpretation of results, and meeting of all deliverables.

Details of overhead costs over £1,000 (if relevant):

No Response

Details of travel and subsistence costs over £1,000 (if relevant):

No Response

Details of operating costs over £1,000 (if relevant):

No Response

Details of capital equipment costs over £1,000 (if relevant):

There is no capital cost for this project but retrieved tags can be refurbished and redeployed for future studies.

Details of consultancy costs over £1,000 (if relevant):

No Response

Details of other costs over £1,000 (if relevant)

This represents the costs of the purchase and shipping for pop-off satellite archival tags (MiniPATs). The unit price is approximately [REDACTED] and shipping is anticipated to cost [REDACTED]. We anticipate deploying 5 tags in the field for a total of [REDACTED].

If your project budget was prepared in another currency and converted to GBP, please provide the exchange rate, its source, and the date it was accessed:

Other currency: **Exchange rate:** **Source of this exchange rate:** **Date exchange rate accessed:**

KYD, USD, EUR	1KYD = 0.98 GBP, 1USD = 0.82 GBP, 1EUR = 0.87 GBP	https://www.xe.com/currencyconverter/convert/? Amount=1&From=KYD&To=GBP	23 October 2023
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Darwin Plus Local has been created to build capacity and contribute to local economies in-territory.

What % of the total will be spent in the OTs? 100

If less than 80% of the total project spend is to be spent within the OT(s), please explain why.

No Response

Section 8 - Local and National Priorities

Q10. Local and national priorities

Please explain how this project aligns with local and national priorities? You may wish to consider the project in the context of national environmental laws, objectives, strategies, territory specific agreements, action plans or policies.

This pilot study supports DoE's objectives of implementing a Species Conservation Plan for local shark species and enhancing marine protection in the Cayman Islands as directed under the Environment Charter and required under the National Conservation Act (2013) (NCA). Further, the NCA seeks to protect additional marine habitat, especially offshore and deeper waters, through part 3 section 7 and as prioritised through section 8(1)a: "to conserve, maintain and restore habitats and their associated ecological systems critical to the survival and recovery of species which are endangered, threatened, endemic or migratory species or of special concern for any other reason". First efforts to characterise the biodiversity of Cayman's deep-sea began in 2022. Core habitat use of marine top predators may also be indicative of productive habitats, therefore predators such as Caribbean reef sharks can act as flagship species aiding in identifying key habitats for conservation planning. The higher resolution data collected by this study will help to close knowledge gaps revealed by previous shark and deep-sea research. The results will inform recommendations on how conservation management locally, and potentially transnational, can improve the effectiveness of protected areas and species-specific protection outlined in a Species Conservation Plan as directed under the NCA.

Will the project take place on Government owned land or water or involve biocontrol, invasive alien species control or eradication?

Yes

Please attach evidence that you have Government support for this project i.e. a Letter of Support. Applications which indicate that they do not take place on Government land or water, but which propose work that appears to the reviewers would be difficult/impossible to carry out without working on government land or waters may be ineligible if no Letter of Support is provided.

Section 9 - Project Risks

Q11. Project Risks

Please demonstrate your consideration of any risks involved in this project and how you intend to manage them. Please note the importance of health and safety and environmental risk assessment in the design of your project. If there is any possibility that your project may have negative impacts on the environment or human health, it is important that you provide a comprehensive analysis of potential environmental and human health risks, and the prevention measures you will take to ensure the work does not cause harm.

Depending on your project, you may wish to consider:

- Biosecurity risks – particularly for projects involving external equipment.
- Safeguarding risks – particularly for projects involving vulnerable groups such as children, older people or people with disabilities.

Risk	Mitigation
Delays in the shipment and delivery of the MiniPATs due to the manufacturer's schedule	The MiniPAT is produced by one manufacturer in the USA with a lead time of 1-3 months. To minimise any potential delays due to shortages, the manufacturer will be contacted as soon as the grant is awarded to place the tag order shortly after the project start. The X-tag, produced by a different manufacturer in the USA, has similar characteristics and can be used as alternative to the MiniPAT. However, the X-tag is more expensive which will likely reduce the number of tags for this study.
Impacts to the health of the crew during fieldwork on the boat	All boating safety features will be reviewed with the crew beforehand, including but not limited to: flotation devices, communications, medical emergency supplies and procedures, sea sickness, disposal options onboard, and hydration/sun exposure. All crew will bring their own sun exposure protection (clothing and sunscreen) and re-useable water bottle to fill with water provided on the boat. A safety briefing regarding the shark workups will be conducted to establish roles during the workup, remind participants of safety policies such as wearing gloves while handling the monofilament, and review the order of processes that will take place during the shark workup.

Loss of fishing gear if a shark is breaking the line	The fishing tackle includes wired leaders. Previous experiences have shown that this method is very successful in catching and securing sharks safely and unharmed to the boat.
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Do you require more fields?

Yes

Risk	Mitigation
Loss of animal life	The project lead, Dr Kohler, has 15 years of experience including safely tagging, sampling, and releasing sharks for research purposes. The sampling protocol is standard practice, similar to that used previously for shark research conducted in Cayman. The protocol, approved by the DoE and the National Conservation Council, includes: 1) barbless circle hooks, 2) sharks remain in the water, 3) sharks will be put into tonic immobility (natural calming effect), 4) relative short workups (10-15 min), and 5) removal of hook/fishing tackle before release. No anaesthesia will be used, and tags are attached externally to minimise stress to the animal.
Tag malfunction	Tags might fail to store or transmit data via satellite due to technical/software malfunction or a severely overcast sky. Tags are purchased from Wildlife Computers which are one of the leading manufacturers for pop-off tags with successful applications in studies by leading researchers globally, however, in the case of malfunction, the data are not recoverable. After detachment, tags will float on the water surface and transmissions to the Argos satellite system are generated over several days until the tags' battery runs out to reduce the risk of data loss due to a severely overcast sky on the day of detachment.
Loss of data due to mortality (natural or otherwise) of the tagged animal	The MiniPAT can auto-detect mortality. This parameter monitors multiple conditions and can automatically initiate release if those conditions are met. The release setting of the tag will be programmed so that in case of mortality (natural or otherwise) the tag will detach from the sinking animal and float to the surface to initiate data transmission via satellite. In case of unintentional catch by fisher, the tag will start transferring the data as soon as the tag is on the surface (e.g. boat) and dry.

Impacts of detached MiniPAT to the environment	Once on the surface, the tag will send a GPS signal until the battery of the tag runs out (usually a few days after the predetermined detachment). Efforts will be made to recover the detached tag. If the shark was close to the coast, the tag can be retrieved via boat, or the tag will wash up on the beach for collection.
Hurricane season	Sharks are resident throughout the year and the fieldwork will be organized so that there are no risks to the crew and animals or recovery of tags as a result of hurricanes.

Section 10 - Terms & Conditions

Q12. Terms and conditions (Guidance section 3.10)

By applying for Darwin Plus Local you are adhering in full to the grant Terms and Conditions in full (available at: [Darwin Plus website](#) and as referenced in the Guidance at section 3.10). For information, the Terms and Conditions include requirements for all applicants to (amongst other requirements as per the full Terms and Conditions):

- Uphold a zero tolerance for inaction approach to tackling sexual exploitation, abuse, and harassment.
- Where appropriate, make all reasonable and adequate efforts to address gender inequality and other power imbalances.
- Notify all cases of fraud and theft (whether proven or suspected) relating to the project to the Grant Administrator as soon as they identified.

Please indicate you have read, and understood, and will adhere to the Terms and Conditions.

Checked

Supporting documents list (please have these ready to attach with application)

- Cover Letter of no more than two A4 pages. (Guidance section: 4.2 has information on what this cover letter should include).
- If the project takes place on public land or water or is addressing invasive alien species, a Letter of support from OT Government.
- Project Workplan in the template provided for Darwin Plus Local (available at: [Darwin Plus website](#)).
- Map and additional information (optional) maximum five additional pages.

If your application is successful

If your project application is successful, the Fund Administrator (NIRAS) will ask you to provide some financial evidence for due diligence checks before you receive your project grant. (Please see section 3.3 of the Darwin Plus Local Finance Guidance). Please be ready to provide this evidence promptly.

- **Financial evidence for organisations:** Year-end financial statements, the latest management accounts or audited accounts (if you have these).
- **Financial evidence for individuals:** Proof of identity such as a passport, ID card or driving licence and solvency (such as bank statements) and a police check.

Section 11 - Certification

Certification

I certify that, to the best of my knowledge and belief, the statements made in this application are true and the information provided is correct.





Checked

I have the authority to submit an application on behalf of my organisation.

Checked

Name: Johanna Kohler

Position in the organisation: (if applicable) Shark Project Officer

Signature (please upload e-signature)  [JohannaKohlerSignature](#)
 27/11/2023
 20:35:15
 jpg 81.78 KB

Date: 27 November 2023

Section 12 - Submission Checklist

Checklist for submission

	Check
I have read the Guidance documents, including the “Darwin Plus Local Guidance” and the “Darwin Plus Local Finance Guidance”.	Checked
If my proposed project takes place on public lands or water or is addressing alien invasive species, I have uploaded a Letter of Support from Government.	Checked
I have uploaded a cover letter that details the information requested in the guidance (Guidance section 4.2 has information on what this cover letter should include).	Checked
I have read, and can meet, the current Terms and Conditions for this fund.	Checked
I have provided actual start and end dates for my project that fit this Round.	Checked
I have provided my summary budget based on UK government financial years i.e. 1 April – 31 March and in GBP in the application form.	Checked
I have uploaded my project workplan using the specific template provided.	Checked
I have uploaded all supplementary documents if I have any.	Checked
(If copying and pasting into Flexi-Grant) I have checked that all my responses have been successfully copied into the online application form.	Checked

The application has been signed by a suitably authorised individual (clear electronic or scanned signatures are acceptable).	Checked
I have checked the Darwin Plus website immediately prior to submission to ensure there are no late updates.	Checked
I have read and understood the Privacy Notice on the Darwin Plus website.	Checked

We would like to keep in touch!

Please check this box if you would be happy for the lead applicant (Flexi-Grant Account Holder) and project leader (if different) to be added to our mailing list. Through our mailing list we share updates on upcoming and current application rounds under Darwin Plus. We also provide occasional updates on other UK Government activities related to biodiversity conservation and share project news. You are free to unsubscribe at any time.

Checked

Data protection and use of personal data

Information supplied in the application form, including personal data, will be used by Defra as set out in the **Privacy Notice**, available from the [Forms and Guidance Portal](#).

This **Privacy Notice must be provided to all individuals** whose personal data is supplied in the application form. Some information may be used when publicising Darwin Plus including project details (usually title, lead partner, project leader, location, and total grant value).

Project Title: Deep-diving behaviour of Caribbean reef sharks in the Cayman Islands

Darwin Plus Local

Provide a **Workplan** that shows the key milestones in project activities. Complete the following table as appropriate to describe the intended workplan for your project. Round 3 is for a **maximum of 12 months** with activities starting from 1 April 2024. All activities must be completed by 31 March 2025.

Please add/remove 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 shade only the months in which an activity will be carried out. The workplan can span multiple pages if necessary.

Activity #	Description (max 25 words)	No. of months	UK Financial Year 2024/25											
			Calendar Year 2024									Calendar Year 2025		
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	Purchase of MiniPATs	1												
2	Shipment, set-up and programming of tags	3												
3	Organising of fieldwork and tagging of sharks	4												
4	Data collection	7												
5	Data analyses and deliverables	4												