0. Proposal name

Assessing the possible impact of the plantation of a commercial forestry on 2 sites in Lochranza, Arran.

1. Description of the data

1.1 Type of study

Fieldwork study consisting of a Phase I Habitat Survey and ecological surveying of invertebrates, birds, mammals and bats on two plots in Lochranza, on the Isle of Arran. Desk based analysis of the sites.

1.2 Types of data

Quantitative and qualitative, generated from field surveys and desk-based survey and government records.

1.3 Format and scale of the data

CSV files, excel files, R studio, Excel, 10 databases, occasional filtering of data. Data following FAIR principles, GitHub repository to ensure sharing and long-term validity of data.

2. Data collection / generation

2.1 Methodologies for data collection / generation

Data collection though ecological surveying during fieldwork important for collecting information on occurrence of invertebrates, birds and mammal species (including bats) for informative decision on the location for the establishment of a commercial forestry plantation. Data follows FAIR principles and is follows the Darwin core standards: occurrence of individuals in nature documented by observations, specimens, samples and related information.

2.2 Data quality and standards

Data quality ensured thought communication of sampling methods to keep them consistent throughout the study, establishment of universal metrics, and consistent sampling times and locations (with the use of coordinates). Data entry annotation standardised following GBIF annotations. Peer review of data at the end of the fieldtrip to make sure data is annotated correctly with controlled vocabulary.

3. Data management, documentation and curation

3.1 Managing, storing and curating data.

Data stored on GitHub and will be public and accessible for everyone.

3.2 Metadata standards and data documentation

Data on occurrence of terrestrial, aquatic invertebrates, birds, mammals (including bats) and incidental sightings on both study sites will be available to the public. Further research on biodiversity community on those areas could access records collected during this study. Format of the metadata follows GBIF template, sampling events are included describing each event ID, sampling protocol, sampling effort, sample size value, event date, event time, event remarks, country, locality, location ID, decimal latitudes at start and end of sampling, decimal longitudes at start and end of sampling and type of sampling (event).

3.3 Data preservation strategy and standards

Data imputed on GitHub. Formal presentation standards follow GBIF template.

4. Data security and confidentiality of potentially disclosive information

4.1 Formal information/data security standards

No requirements of any data security standards needed.

4.2 Main risks to data security

No data on human individuals present apart from the name of the people conducing the sampling.

5. Data sharing and access

5.1 Suitability for sharing

Metadata is in standard GBIF format and data follows FAIR principles and is follows the Darwin core standards: occurrence of individuals in nature documented by observations, specimens, samples and related information. Suitable for sharing.

5.2 Discovery by potential users of the research data

Data will be inputted on GitHub and available to the public, any further research on the site on biodiversity composition could use the data. The metadata could be useful for the establishment of baseline conditions on which future studies base themselves on.

5.3 Governance of access

The data is accessible on a GitHub repository. Anyone can access it.

5.4 The study team's exclusive use of the data

NA.

5.5 Restrictions or delays to sharing, with planned actions to limit such restrictions

NA.

5.6 Regulation of responsibilities of users

Data can be shared by anyone with anyone, with the awareness that the data collected in the field might not be completely accurate in representing biodiversity composition due to the lck of time and little equipment throughout the fieldwork.

6. Responsibilities

NA.

7. Relevant institutional, departmental or study policies on data sharing and data security

NA

Policy	**URL or Reference**
Data Management Policy & Procedures	NA
Data Security Policy	NA
Data Sharing Policy	NA
Institutional Information Policy	NA
Other:	NA
Other	NA

8. Author of this Data Management Plan (Name) and, if different to that of the Principal Investigator, their telephone & email contact details

Elisa Mascagni