

CESAB CENTRE FOR THE SYNTHESIS AND ANALYSIS OF BIODIVERSITY

PARSEC

Building New Tools for Data Sharing and Reuse through a Transnational Investigation of the Socioeconomic Impacts of Protected Areas

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PARSEC is a trans-disciplinary and trans-national project working on the use and re-use of environmental and socioeconomic data to assess practices for data management and conservation. The project provides a unique opportunity for data scientists and synthesis scientists to collaborate in real-time toward the goal of improving research outcomes and data sharing. The resulting tools and metrics will enable better prediction and mitigation of the effect of actions that disrupt historical land use practices and threaten local communities.

The project is composed of two teams: a Synthesis Science team and a Data Science team.

- The Synthesis Science team is employing artificial intelligence techniques to analyse satellite images and socio-economic information to better predict and mitigate the effect(s) of actions that potentially threaten the livelihoods and health of local (indigenous) communities. Like most researchers who investigate complex environmental problems, the team depends significantly on the availability of good, spatially dispersed, multidisciplinary, and time-series data.
- The Data Science team, composed of leading environmental data management professionals, data communities (RDA, ESIP), society journals (AGU), and representatives of e-infrastructures for data attribution (e.g., DataCite and ORCID), will develop leading practices on data citation, attribution, credit, and reuse. As part of the integrated work with the synthesis-science team, the data-science team will provide a review of best practices for data management and stewardship using this effort as a case study of the wider scientific community to optimise data access and reuse. The team will also develop and implement a new tool to better track data usage and reuse for researchers.

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CESAB (CEntre for the Synthesis and Analysis of Biodiversity) is FRB's flagship program and an internationally renowned research center whose objective is to implement innovative work to synthesize and analyze existing data sets in biodiversity research.

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