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Summary

The study is about assessing areas suitable for rubber-based cropping systems to the changing agro-climatic conditions in Southern Philippines. This research aligns with the goal of achieving climate-resilient rubber-based cropping systems supporting national and local governments to improve the economic conditions of marginalized indigenous communities. The distribution of suitable areas will be explored using simulation data from different climate scenarios. The components of the research frameworks include the input data, classification, criteria creation, the assessment matrix, and the decisions for the level of suitability. Spatial data processing will be through the GIS Software. The research and thesis writing process will be complete in at least three (3) years as follows: Year 1 will be devoted to the literature review, analysis, and write-up. Year two will be distributed to data gathering and preparation in the first nine (9) months and modelling and data analysis in the remaining months. Five (5) months of data gathering, which includes secondary data gathering of additional data sets from various sources like the National Mapping Resource Information Authority (NAMRIA), Department of Environment and Natural Resources (DENR), Bureau of Soils and Water Management (BSWM), Department of Agriculture, and among others. Primary data gathering such as structured interviews with rubber farmers. Four (4) months of data preparation, including encoding attribute data and geoprocessing or rectifying spatial data sets. Three (3) months of modelling and analysis. Year 3 is the final year, and the activities here are towards completing the study.

Addressing poverty through rubber and high economic value crops is per the national development priorities and the long-term vision for the Philippines in the next 25 years. The research priorities of the Philippines include smart farming approaches, development of climate-resilient technologies, and development of sustainable management practices for forests, among others.

Research Expertise

- Terrestrial Vertebrate Fauna Assessments
- Coastal Resource Assessments
- Suitability Assessments
- Land Cover Change Assessments
- Water Quality Assessments
- Environmental Impact Assessments