

Title: Bird biodiversity research in landscape with large-scale plantations.

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Abstract.

In a severely disturbed ecosystem, fauna and flora differ from the original vegetation such as natural forests. Whereas plantations provide high commercial products which represent important industrial basis for local societies, there is urgent need to conserve biodiversity.

Peat-land ecosystem in Indonesia is one of the places where huge land-use modification by plantation companies occurs.

The major land-use, namely natural forest, Acacia plantation and jungle rubber was selected as a study site for the bird diversity research.

These vegetations have different disturbance levels; less disturbance, complete change of vegetation by planting single trees, and complete change of vegetation by planting several kinds of crop plants, respectively.

For the biodiversity assessment, monitoring is essential to understand the dynamics of environmental condition.

To overcome the difficulties of bird diversity research in tropical rain forest, where enormous amount of bird species exists, I have developed the long-term bird song recording system in the tropical forests using IC-recorder.