# The carbon conservation of mangrove ecosystem applied REDD program

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| **Abstract** | a:2:{i:0;s:557:"The ability of mangrove ecosystem to accumulate carbon from air, water and soil as sinker carbon is very important to reduce carbon emission in coastal ecosystem. Carbon sink represent role of mangrove ecosystem to sequestrate carbon emission is developed by a system of mangrove zone and demonstrative activities system. These paper purposes to develop system of carbon conservation in mangrove ecosystem to apply REDD program and demonstrative activities. The research methods used Komiyama equation tCer analysis and demonstrative activities formulation.";i:1;s:749:"The research results showed that the carbon percentage of mangrove species between 35.97%- 53.98% with Bruguiera gymnorrhiza (52.54%) and Rhizophora apiculata (52.38%) as the biggest carbon sinker of mangrove species. The carbon of mangrove ecosystem were 79.2 tonC/ha - 242.2 tonC/ha, with the economic value between 396.2 US$/ha (price 5 U$/tonC) - 4360.4 US$/ha, (price 18 US$). The best choice of demonstrative activities in REDD framework to reduce the degradation of mangrove ecosystem was the fish pond. And the best carbon sequestration of mangrove species were Bruguiera praviflora, Rhizophora mucronata, Bruguiera sexangula, Rhizophora apiculata and Bruguiera gymnorrhiza (first mangrove zone). (C) 2017 Elsevier B. V. All rights reserved.";} |
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