

The use of spot image for mangrove inventory in Cimanuk Delta West Java, Indonesia

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Abstrak

This study deals with an application of SPOT satellite data for mangrove forest inventory in Cimanuk Delta West Java (Indonesia). Mangrove of the area (7100 Ha) has been gradually decreasing by human pressure especially for fisheries purposes. In fact, mangrove here is a result of afforestation since 1960, with *Rhizophora mucronata* and *R. apiculata* as main planted species. Other species are *Lumnitzera racemosa*, *Excoecaria agallocha*, *Bruguiera gymnorhiza* and *Avicennia* which grow naturally. SPOT data were digitally analysed using Didactim software. A color composite image was analysed. A barycentric supervised classification and a textural analysis were applied. As an intermediate data, infrared color aerial photographs at 1/30,000 (1981) were interpreted manually. At least two mangrove types of mangrove could be identified from the SPOT image. Dense mangrove was found in Petak 7, Petak 8, Petak 9, and Petak 12. In the other Petaks, mangrove were less than 20% of their surface. Mangrove of *Rhizophora* in 26 Petaks covered 290 Ha only.