

**Airport environmental noise mapping and land use management as an
environmental protection.
The case of the Adisucipto International Airport (Yogyakarta, Indonesia)**

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Abstract

Increasing in plane movement and expansion of area to hold bigger plane movement will cause problem to the environment, such as: increasing in noise emission (noises). The objectives of this research were to make mapping noise zone, and land use evaluation management. The case of the International Airport in Yogyakarta, an airport with a short runway with high frequent flight schedules. In the framework of the present article a complete Strategic Noise Mapping research and Action Noise Plans assessment and evaluation are presented and aimed to access land use management as an effective tool for protection from aircraft noise. Noise mapping gives full evaluation of results with emphasis to the Airport area land uses and the exposure of inhabitants in residences in various levels of environmental noise, especially a new land use management scheme for the future Yogyakarta Land Use Plan.

Keyword : Noise Level, Noise Mapping, Land Use Plan, Airport