河川揚塵潛在區位之劃定與管理

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關鍵詞:河床裸地、揚塵潛在區位、影像處理。

Delineation and Management of Dust Emission Potential Areas on Riverbed

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ABSTRACT With humid summers and dry winter seasons in central Taiwan, areas of bare riverbed increase due lowered water levels during the drought season. In addition, dust emission caused by monsoons in the bare riverbeds result in poor environmental quality. When land owners and management authorities have not enforced measures to reduce dust emissions, to regulate dust emissions, some county governments have announced penalties for behavior that cause pollution according to air pollution law. Therefore, it is an important issue to delineate dust emission potential areas and provide some relevant management methods. Sections of Jhuoshuei River (from Zi-Oiang Bridge to Si-Bing Bridge) are used as areas of research; Geographic Information Systems and image processing technology are applied in this study to delineate the dust emission potential areas of the river and previous studies of dust control methods are reviewed to make some management strategies for the reference of related authorities.

Key Words: bare riverbed, dust emission potential areas, image processing.

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