Japan Geoscience Union Meeting 2015

(May 24th - 28th at Makuhari, Chiba, Japan)

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AHW27-04

会場:301B

時間:5月24日09:45-10:00

中山間地流域における物質輸送に及ぼす耕作放棄地の影響評価 Assessment of the impacts of abandoned cultivated land on material flux in hilly and mountainous watersheds

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Agricultural land-use has been reduced by mainly urbanization and devastation in Japan. The objective of this study is to evaluate the impact of the decline of agricultural land-use on flood risk and material flux in hilly and mountainous watersheds using Soil Water Assessment Tool. The results indicated that increase of flood risk due to abandonment of agricultural land-use. Furthermore, the abandonment of rice paddy field on steep slope areas may have larger impacts on sediment discharges than cultivated field. Therefore, it is suggested that prevention of expansion of abandonment of rice paddy field is an important factor in the decrease of yields of sediment and nutrients.

キーワード: 物質輸送, 中山間地流域, SWAT モデル

Keywords: material transport, hilly and mountainous watersheds, SWAT model