

Perubahan penggunaan tanah dan pengaruhnya terhadap wilayah banjir di kota Banjar = Changes of landuse and influence on the flood area in Banjar city

Irma Handayani, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20292464&lokasi=lokal>

Abstrak

Perubahan penggunaan tanah yang terjadi di suatu DAS dapat mengakibatkan karakteristik hidrologis sungai menjadi terganggu, salah satunya variasi debit Ci Tanduy yang melintas di Kota Banjar. Dalam penelitian ini, dilakukan interpretasi citra Landsat dan survey lapang di 10 wilayah banjir. Penggunaan tanah dan wilayah banjir diidentifikasi dan selanjutnya dikaitkan dengan ketinggian, kemiringan lereng, curah hujan dan debit sungai tahun 2002 dan 2009 dengan menggunakan metode analisis keruangan. Hasil penelitian ini menunjukkan bahwa sebaran wilayah banjir di Kota Banjar berhubungan erat dengan jarak lokasi terhadap aliran sungai, khususnya sungai induk Ci Tanduy. Wilayah banjir di Kota Banjar terdapat di sub-DA Ci Muntur, Ci Jolang dan Ci Seel. Perubahan penggunaan tanah memiliki pengaruh terhadap wilayah banjir baik dari luas maupun letak, terutama perubahan dari non-permukiman menjadi permukiman di sempadan sungai. Perubahan penggunaan tanah juga mengakibatkan bertambahnya wilayah banjir di Kota Banjar.

.....

Changes of landuse that occur in a watershed can lead to the hydrological characteristics of rivers to be disrupted, one of them is discharge variation of CiTanduy that across in Banjar City. In this study, Landsat image interpretation and field survey in 10 locations have done. Landuse and flood area were identified and then were associated with elevation, gradient, rainfall and discharge river in 2002 and 2009 using spatial analysis methods. Results of this study indicate that the distribution of flood areas in Banjar City is closely related to flow rivers, especially main rivers of Ci Tanduy. Distribution of flood areas in this city is located in three sub-basins, namely sub-DA Muntur,Ci Jolang, and Ci Seel. Changes of landuse have an influence on flood area, either from the extensive flood area and the location of flood area mainly, changes of nonresidential into settelement is found in the border river. Beside of the extensive flood area, the influence of land use changes also resulted the increasing of new flood areas in Banjar City.