

Vegetation Dynamics in Oueme Basin, Benin, West Africa



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Reviews

This is the finest ebook i have got read through till now. It really is full of wisdom and knowledge You wont sense monotony at anytime of the time (that's what catalogs are for relating to in the event you ask me).

(Mr. Edison Roberts IV)

VEGETATION DYNAMICS IN OUEME BASIN, BENIN, WEST AFRICA



Cuvillier Verlag Okt 2015, 2015. Taschenbuch. Condition: Neu. Neuware - Land use in Benin has been changed enormously since 20 years. The farming systems in the Oueme Basin are experiencing an ongoing intensifying process. Balancing the inherent trade-offs between immediate human needs and ecosystem capacity, needs comprehensive knowledge about ecosystem functions. To test the possible feedbacks between vegetation, precipitation and other environmental driving forces empirically, a new quantitative vegetation appraisal method was developed. Thus, the temporal and spatial vegetation dynamics of the whole Oueme Basin in Benin, West-Africa were reconstructed. The newly defined eco-volume and bio-volume concepts were used as alternative vegetation indicators in comparison with the standard biomass indicators. That portion of precipitation variability, originating specifically from vegetation variability, was defined as eco-precipitation. The in situ measured agro-ecological and farming system parameters of the three major vegetation types were used to validate the agricultural statistics and the satellite land cover data. Other available datasets comprising annual precipitation, vegetative duration coefficient and population density were adapted to comparable time and spatial spans, and eventually analysed together with the reconstructed vegetation dynamics. The feedback between vegetation and precipitation was evaluated at different spatial scales. To detect possible future trends, static regional scenarios of precipitation in relation to eco-volume in 2004, as well as combined temporal and spatial scenarios of bio-volume in relation to precipitation from 1987 to 2025 have been simulated. 182 pp. Englisch.



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