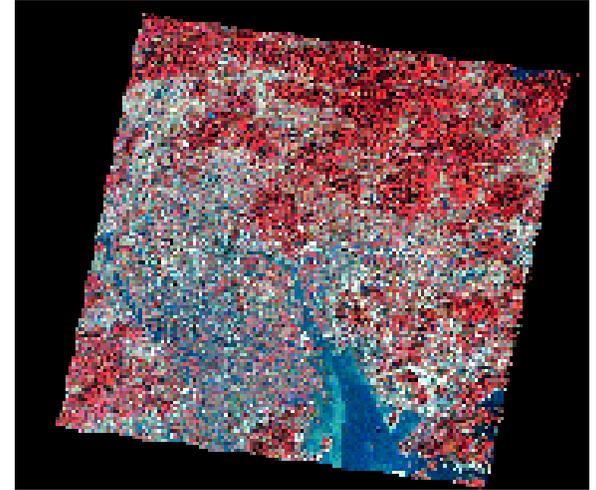


Modeling and Forecasting Effects of Land-Use Change in China based on Socioeconomic Drivers

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- Quantify land conversion rates and the socioeconomic drivers of land-use change in the Pearl River Delta of Guangdong Province, China
 - Model land use change under various scenarios of economic development
 - Estimate the corresponding changes in the biophysical and biogeochemical environment
 - Use Landsat images to analyze land-use changes from 1973 to 1996.
 - Build a statistical model that identifies and quantifies the effects of socioeconomic variables on land conversion
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- The amount of urban land in the Pearl River Delta increased 300% between 1988 and 1996. Most new urban land is converted from agriculture.
 - Projected implications
 - World grain markets/trade agreements
 - Domestic energy use and trade reform
 - Addresses section of IPCC future needs suggestions



The Pearl River Delta River Region of Guangdong Province in Southern China