



Water quality of the Yangzi basin and the East China Sea analyzed by both Chinese official and MODIS remote sensing data

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Although it is difficult to analyze the water quality of large scale river like the Yangzi, because it's also hard to have field surveying data, it would be possible if proper combination of official and remote sensing data work together standing on analytical point of view. Water quality official database (printed matter) got in Shanghai in 2007 showed water polluting factor such as rich nutrition over the Yangzi basin was growing up past 5 or more years. On the other hand, it could not exactly be seen the water quality of the East China Sea, which is a mouth of the Yangzi, was changing worse, according to BOD and DO or others in statistics. These situations gave us an opportunity to analyze the East China Seas' water condition by remote sensing data from 2000 to 2005 of MODIS sensor, which have been accumulated at TUIS (our place). The analytical result with the chlorophyll-a density has changed every years, this means the incompatibility with the results mentioned above. It may be excellent if the estimation of water quality of such huge river can be done well only by both the database in statistics and the remote sensing, without local field surveying data. The pursuit of estimative exactness will be great.