Design and development of android analysis system of climate change in Guizhou

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Analysis system of climate change in Guizhou is designed by use of China Integrated Meteorological Information Service System (CIMISS), meteorological cloud, data of Guizhou meteorological information system and technology of GIS&APP. Personalized meteorological service products in the system (e.g. the fact of climate change and regional climate model analysis result) are customized according to types and needs of users which are the public, leaders and professionals.
In the paper, we present how to provide the most concerned weather and climate information to users, and to show effective and convenient information for decision-making and disaster-warning services by the system. By phone, users can directly inquire that historical data of meteorological elements, spatial/temporal distributions of climate monitoring index, and climate models predict products. The information includes the regional annual mean temperature, total precipitation, drought index, freezing index and so on. Moreover, the system can provide statistical processed data including relationship and trends, which supports analysis of climate change. In addition, the system can establish localized model based on an objective analysis and provide more appropriate and effective reference for policy-making. The main function of the system is to fully exploit climate information and to make customized meteorological products more intuitive, convenient, efficient and intelligent.

Key words: analysis system, climate change, android, Guizhou

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