Monitoring the snow cover and depth in Xinjiang region of China with FY-1D Chinese meteorological satellite data

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The calculating method and monitoring model used to obtain the snow cover and snow depth information were introduced in this paper, by characterizing the short infrared waves and using the remotely sensed data of the FY-1D Chinese meteorological satellite, which was released by the 9210 meteorological program and used in the regional weather stations. A new method was developed to monitor the depth and the area of the snow cover by remotely sensed data of the FY-1D meteorological satellite, illustrated by the remote sensing monitoring of the snow cover and depth in Xinjiang region of China from November 2002 to May 2003. The characterization and variation of the snow cover and depth were also analyzed in this paper.