

The important roles of contemporary airspace remote sensing in social development

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Modern photographic surveying and remote sensing open up a new perspective of human cognition to the Earth, breaking the situation that photographic surveying has long been limited to rendering topographic maps by surveying and mapping the geometric data such as shape and size of objects, therefore they provide human with new methods and means of understanding the Earth from multi-dimensional perspectives and the macro scales. As photographic surveying and remote sensing entered into the all-digital era and the high-resolution and three-dimensional observation one respectively, their technologies have been widely used in many fields such as surveying and mapping, land, agriculture, forestry, water conservancy, meteorology, resources and the environment, public security and fire protection, urban construction, marine, disaster prevention and reduction, which are playing more and more important roles in economic construction and social development.

As the further development of high-precision technology of airspace remote sensing, new multi-sources, multi-scales, multi-species, multi-temporal aerospace remote sensing images will be formed, which can be used for the collection and updating of geographic information data surveying and mapping. And data is both the blood of geographic information, and the basis of mapping geographic information industry. Aerospace remote sensing images is also used for the national economy in many other fields to assist the macro decision-making of all levels of governments, which is a national strategic resource and even involves cultural tourism industry, navigation, military reconnaissance and etc, therefore it should be “coordinately planned, efficiently used, scientifically promoted ,and developed quickly”. But vast amounts and multi-sources, multi-scale data is difficult to realize efficient use if we don’t strengthen management. Therefore, under the national coordinate establishment and perfection of High-resolution Earth Observation System, each province should complete the acquisition of various remote sensing images and effective management of image databases in planned way. And each province should guide the state level of governments to establish each remote sensing images database of the jurisdiction, so as to effectively serve all walks of life and improve the booming of geographic information industry.

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