

## Summary

Continuous growth of world population and economy has posed increasing pressure and influence to forest resources and ecology. Forest insects and diseases are also exhibiting a rising trend, the areas of hazard and damage continues to be high. One of the main reasons is the backward monitoring technology that cannot forecast and monitor the hazard effectively, and cannot control the hazard on time. Advancements of remote sensing, GIS and GPS technology has provided an effective means for monitoring and management of forest insects and diseases. Satellite, airborne multi-scale remote sensing data are effective tools in monitoring forest insects and diseases in different scale, and have played great role. With continuous development of technology, more effective methodology will come into being to monitor forest insects and diseases.

## Acknowledgment

Thanks to the Committee on Trade and Investment , APEC, the Asia-Pacific Economic Cooperation Secretariat, and the Ministry of Foreign Trade & Economic Cooperation, PRC, they have provided full support for this project. Thanks to my colleagues Wu Jian, Shi Jin, Xue Zhennan, Chen Murong, Sun Yongping, Tian Yonglin, Zhou Jinsong, Zhang Peiyi, they have helped a lot in the compilation of this atlas.