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THE NEW DEVELOPMENT OF HIGH RESOLUTION OPTICAL REMOTE SENSOR IN CHINA

Abstract

Great achievements have been achieved of space optical remote sensor in china after 50 years of development. It has brought great social and economic benefits for human society. This paper briefly introduces the new development of optical remote sensors and some key technologies in China. This paper includes four sections. The first section briefly introduces the main application of high resolution remote sensing, such as resource monitoring, ecological environment management, city planning and management, disaster prevention and mitigation,etc. The second section introduces optical remote sensing development process in China over the past 50 years. It introduces ZY series, HY series, HJ series, FY series and GF series. The third section is the weight of this paper, which introduces the new development of China's high resolution remote sensors, such as SuperView-1 remote sensor and High Spectral Monitor for Greenhouse Gas on FY-3 satellite. The key technologies and solutions of the optical loads are introduced. The fourth section introduces the progress of the remote sensors being developed and the future development direction is also contained.