

IAF EARTH OBSERVATION SYMPOSIUM (B1)
International Cooperation in Earth Observation Missions (1)

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INTERNATIONAL COOPERATION FOR CHINA SMALL SATELLITE

Abstract

As to the current world satellite market, more and more countries need the deep international cooperation to help them to construct their own space foundation, to develop, launch and fully utilize the LEO remote sensing satellite, to train the professional management and technical engineer group for the future satellite project, etc. Based on the successful development international cooperation for VRSS-2 satellite (Venezuela Remote Sensing Satellite-2), PRSS-1 satellite (Pakistan Remote Sensing Satellite-1) and the other cooperated satellite projects, the different Advanced China small satellite platforms (including CAST2000, CAST3000, CAST100 etc.) are detailed, and the successful international cooperation mode and experience are highlighted, ie. how to build the joint-team from PMO to engineer, how to do the joint-design, joint-AIT, how to do the trouble shooting during the satellite development, how to use the China standard etc. Based on the successful small satellite development cooperation, it is the best choice to help the developing countries to construct their own space foundation and ability quickly, from the satellite design, satellite AIT (satellite assemble and test), EVT (satellite environment verification test), Launch, IOT (in-orbit test) in space segment, to how to control and maintain the in-orbit satellite, how to fully processes and utilize the image data in ground segment, and also from how to co-develop the deliverable (satellite, ground control system and application system), to how to train their engineers to be skillful and professional in the satellite development, in-orbit control and image process and application. Up to now, it is the most quick and beneficial international cooperation way for the developing countries to construct their own space foundation and capability.