

# **GPS RADIO OCCULTATION MISSION AT THE KOREA MULTI-PURPOSE SATELLITE KOMPSAT-5**

Sungki Cho\*(1), Jong-Kyun Chung\*(1), Jong-Uk Park (1), Jae-Chul Yoon (2), Yong-Sik Chun (2), and Sang-Yul Lee (2)

(1) Korea Astronomy and Space Science Institute, Daejeon, Korea (2) Korea Aerospace Research Institute, Daejeon, Korea

KOMPSAT (Korea Multi-Purpose SATellite)-5 is scheduled to be launched in 2010. One of the missions of KOMPSAT-5 is atmospheric sounding by using a GPS radio occultation technique. For this mission, the secondary payload of KOMPSAT-5 is the AOPOD (Atmosphere Occultation and Precision Orbit Determination) system, which consists of a space-borne dual frequency GPS receiver and a laser retro reflector array. The AOPOD will provide the data for POD (Precision Orbit Determination) and GPS radio occultation measurements. Currently, KOMPSAT-5 is in the critical design phase and an occultation processing system for KOMPSAT-5 is under development.