

Space wind and Storms Exploration Program

Z. X. Liu

*Center for Space Science and Applied Research, Chinese Academy of Sciences, 100080,
Beijing, China*

The Space Wind and Storms Exploration Program (SWISE) is composed by three satellites in different orbits: (1) SWISE -1 in the ionosphere and thermosphere (300-700 km) is designed to observe the response processes of ionospheric storm and thermospheric storm to solar activities and magnetospheric disturbances; (2) SWISE-2 in the near earth magnetosphere (700 km-10 R_E) is designed to observe the response of magnetospheric space storms to solar activities and interplanetary disturbances; (3) SWISE-3 in the solar wind near bow shock is designed to observe the response of the solar wind near bow shock to solar activities and its influence to the geospace storms (including the magnetospheric substorm, magnetic storm, magnetospheric particle storms). These three satellites will form an exploration chain of solar-Magnetosphere-ionosphere-thermosphere system. The SWISE mission is planned to be launched in 2010.