

Airglow and sprite observation by EQUARS/ALIS

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In order to investigate atmospheric phenomena especially those in the middle and upper atmosphere over Brazil and the equatorial region, an small satellite project named EQUARS was proposed by INPE,

Brazil. EQUARS will have a limb-viewing CMOS imager to obtain information about OH airglow and transient optical emissions at high altitude, such as sprites and elves. Due to the small inclination of 20 degree and low earth orbit, ALIS will provide first complete dataset for lightning related phenomena around the equator, where the lightning activity is highest.