

Potential collaboration and challenge between SYISR and EISCAT

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EISCAT is a multiple Incoherent Scatter Radar (ISR) system in Europe and has played a significant role in space physics community in the past decades. Recently, they are planning to update the system and named EISCAT-3D. Sanya ISR (SYISR) is an ISR under developing over low latitude China and almost completed. At the same time, we are turning to the development of SYIRS phase 2, which will double SYISR and build two other remote receivers. Both EISCAT-3D and SYISR Tristatic System use phased array antenna and will generate huge amount of scientific data. Scientifically, these two ISRs will complement each other due to the geographic location difference. In the talk, I will generally describe both radar system, the potential collaboration in the future, and also the main challenges.

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