

## **Visit to ISEE, Nagoya University under ISEE International Joint Research Program**

**Name:** Sandeep Kumar

**Affiliation:** NASA, Goddard Space Flight Center / The Catholic University of America

**Period of stay at ISEE:** 26-30 January 2026

**Host at ISEE:** Prof. Y. Miyoshi

I visited ISEE, Nagoya University from 26–30 January 2026 under ISEE International Joint Research Program. The purpose of my visit was to discuss ongoing research activities and to explore potential areas for future collaboration. During the visit, I had detailed discussions with Prof. Miyoshi on inner magnetospheric dynamics, with a particular focus on ring current studies using Arase observations. Additionally, we plan to compare Arase observations with simulation outputs for selected events using models available at the Community Coordinated Modeling Center (CCMC) located at NASA/GSFC.

I also had an in-depth discussion with Dr. Hori and Prof. Miyoshi regarding Arase satellite data and its associated data products, which will serve as valuable resources for upcoming scientific analyses. The visit also facilitated productive scientific exchanges with several ISEE colleagues on topics including inner magnetospheric dynamics, data-model comparisons, and prospective joint research initiatives.

I attended the Arase analysis meeting and a group meeting during my visit. On 27 January 2026, I presented a talk titled "Overview of CCMC NASA Activities" at the group meeting. The discussion covered various ongoing activities at CCMC, including model onboarding, post-processing tools, space weather tools, and potential collaboration opportunities with ISEE for broader community use.

On a personal note, the visit stirred a sense of nostalgia, as it provided a wonderful opportunity to revisit fond memories of Nagoya, reconnect with old friends, and meet former colleagues at ISEE. It was truly heartwarming to be back in a place that holds so many cherished memories. I also thoroughly enjoyed the authentic Japanese cuisine, which I greatly miss back in the US.

Overall, this visit was scientifically productive and rewarding. I am grateful to the ISEE International Joint Research Program for supporting this visit, and to Prof. Shiokawa, Prof. Miyoshi, and his group for their warm hospitality and fruitful collaboration. I hope to visit ISEE again in the future and continue our collaborative research endeavors.