Observation of Aurora Fine-structure via INDEX Satellite

Principal Investigator, Affiliation
Masaki Okada
ROIS/NIPR

Corresponding Post
Masaki Okada
ROIS/NIPR
9-10, Kaga-1, Itabashi, Tokyo 173-8515
Phone: +81-3-3962-5904  Fax: +81-3-3962-5742
mokada@.nipr.ac.jp

Cooperative researcher/ institution in Japan
Kiyofumi Hirahara, Masaki Ejiri

Cooperative foreign researcher/ institution
Rikkyo Univ., ROIS/NIPR

Related International Research Project
EISCAT, Ground Aurora Observation

Description of the Program
Spatial scale of aurora fine-structure is about several 10 meters of thickness. INDEX satellite at the altitude of 680km observes this fine structure of the injecting electrons and 556.3nm, 427.8nm image, as well as height profile of the aurora.