

## Imaging spectrometer for km-class observation of SLCP

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Short-lived climate pollutants are powerful climate forcers that remain in the atmosphere for a much shorter period of time than carbon dioxide (CO<sub>2</sub>), yet their potential to warm the atmosphere can be many times greater. Certain short-lived climate pollutants are also dangerous air pollutants that have harmful effects for people, ecosystems and agricultural productivity. In SLCP, since the emission source is local, observation with a spatial resolution of 1 km class is necessary to understand the actual situation. However, it has not existed so far due to technical difficulties. We propose the SLCP Imaging Spectrometer with geostationally satellite to observe Asian region with high-resolution horizontal resolution (target: horizontal resolution 1-2 km), 1-2 hours time resolution to obtain diurnal variation observations.

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