

## Imaging Spacrometer for SLCP observation (APOLLO, uvSCOPE)

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Short-lived climate pollutant, SLCP, is complexly related in both air pollution and climate change. As compared with CO<sub>2</sub>, reduction effect can be obtained in the short term on global warming. And, according to the WHO report, the number of deaths due to air pollution has been reported to be around 3.7 million in the world, which is about three times more than the number of traffic fatalities [World Health Organization (WHO), 2014 ], The seriousness is increasing more and more. The purpose of this mission is to understanding of the inventory of SLCP. The source of emission is local, and SLCP requires observation of high horizontal resolution. Characteristics of the mission compared with the past satellite observation are the improvement of horizontal resolution (target: horizontal resolution 1-2 km) by observation from low orbit, and surface ozone observation with synergetic spectroscopy using UV / VIS / SWIR + MIR + MW sensors.

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