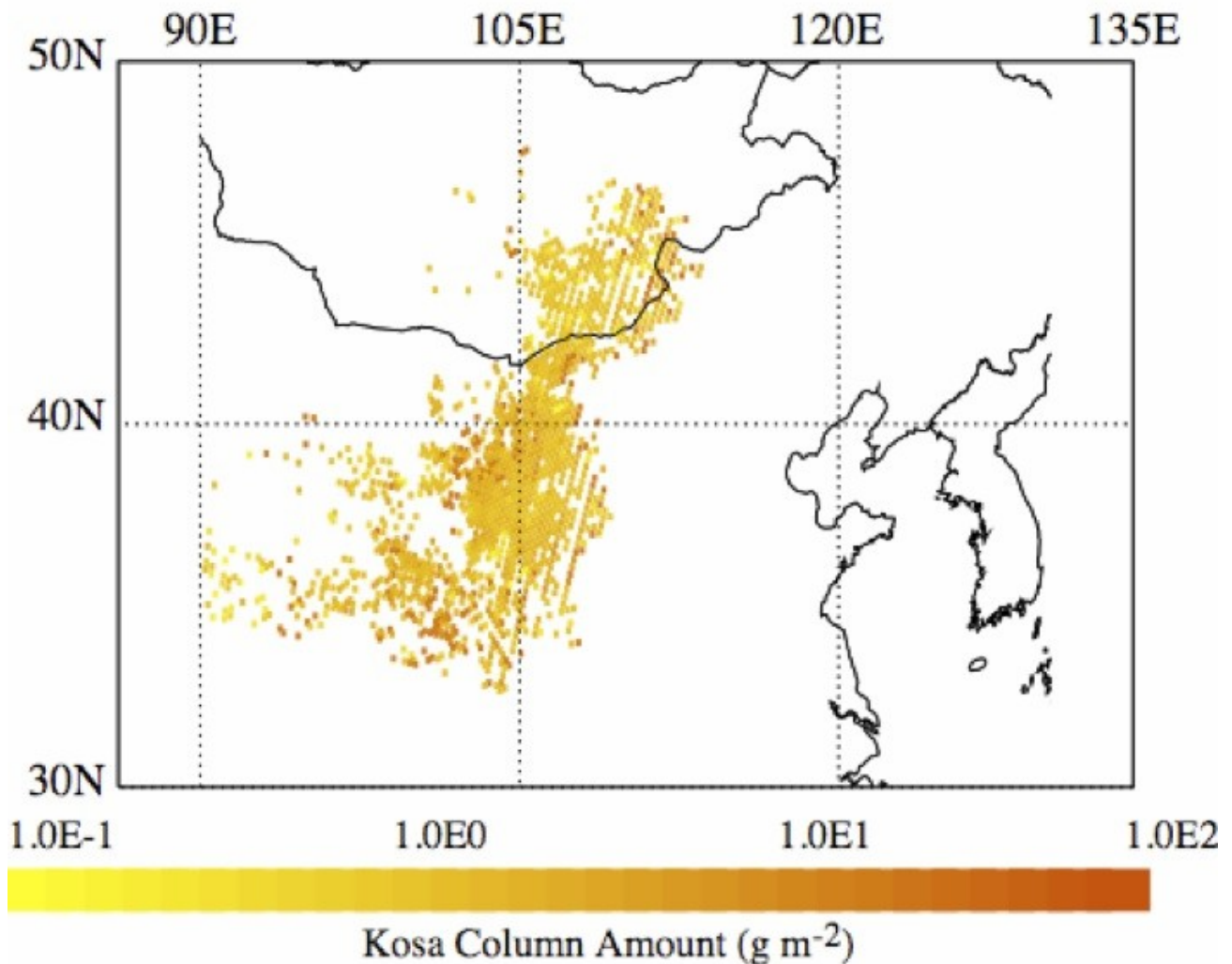# Remote sensing data analyses for atmospheric environment.

Makoto KUJI [Environmental Sciences Course]

Dust amount inland the East Asian continent retrieved from an earth observing satellite.

I analyze remote sensing data obtained from satellite, aircraft, and ground-based observations to investigate atmospheric environment in terms of cloud, water vapor, aerosol, and solar radiation.

The spatiotemporal variation of the meteorological elements is fundamental to weather forecasting, for example. Furthermore, the research has been important for application to photovoltaics utilities, because solar radiation at surface strongly depends on the amount of cloud, water vapor, and aerosol.

I utilize computer programming for the data analyses, using C, Fortran, and IDL on UNIX systems, because the earth observation data are usually a large amount of volumes.

Based on the outcomes from the above investigations, I collaborate with space agencies on future observation missions.

Keywords : Cloud, Aerosol, Water vapor, Solar energy