

Studies on land use and land cover with a focus on vegetation using satellite data

Yuki SOFUE [Environmental Sciences Course]

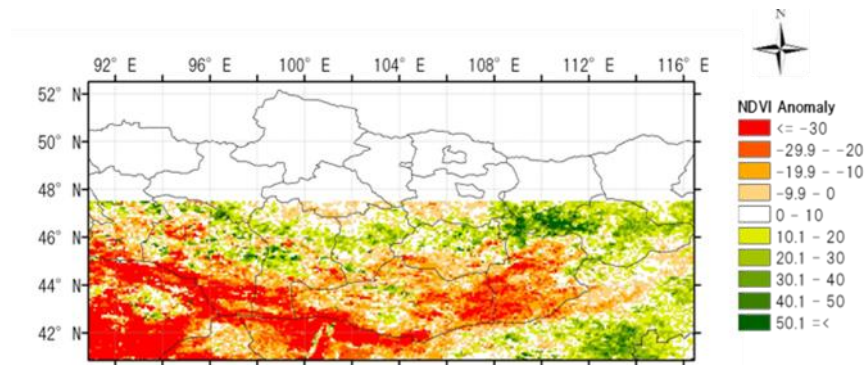


Fig. 1 NDVI (Normalized Difference Vegetation Index) anomaly over 29 years (1985–2013) in Mongolia



Fig. 2 Remote sensing-based estimation of rice yield

We conduct research using satellite data, focusing on natural vegetation and agricultural lands. The aim is to clarify how natural vegetation is changing in response to recent climate variability and human activities. In addition, we monitor land use and land cover changes, including managed vegetation such as croplands and artificial forests, to explore ways of maintaining proper management while reducing costs and labor in the context of a declining population. Field surveys are also considered essential for validating analyses and improving the accuracy of our results.

Keywords : remote sensing, vegetation monitoring, land use/cover mapping