Estimated distribution of SPM in the sky above the Seto Inland Sea

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Created an estimated distribution map of Suspended Particulate Matter (SPM) of the monthly variation in the sky above the Seto Inland Sea. By using Kriging method that one of the spatial interpolated method, the Earth Scientific information at the uninvestigated area was estimated and derived from the original sampling data, and was able to create the estimated distribution map. This estimated data is called the Best Linear Unbiased Predictor (BLUP). This value change by the variogram model, so, need to choose the most suitable model. This process was run using the some libraries into the R-Language (Ihaka and Gentlemen, 1996).

In this report, create the estimated distribution using the SPM data of every month of 2009 year by the Ordinary Kriging (OK) method, consider that the seasonal change and the relation between SPM and terrain.

Keywords: Kriging, BLUP, R-Language