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Understanding of crustal activity based on temporal changes of spatial correlations between various geophysical measures (outline)

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The inland earthquakes which occur in the Japanese islands reflect crustal activities which are originally caused by the interactions between four plates surrounding the Japanese islands. For understanding such crustal activities, we first collected different kinds of geophysical data such as seismicity, GPS, gravity anomaly, and geothermal gradient, which reflect crustal activities with a variety of time scales. We then began to investigate the characteristic patterns in scatter diagrams, spatial correlations and their temporal changes between different geophysical measures in various regions. Changing regions, time periods, and pairs of data for analysis, we intend to inquire into the universality or regionality of crustal activities and their temporal changes. We introduce the outline of our work here and present preliminary results obtained with seismicity data and GPS data in the corresponding poster session.