

## "Cross-scale" issues on Protected Areas in India

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In the conceptual framework underlying the Future Earth (FE) program, "Scale" is to be positioned as one of keyword. In the final report (released in 2013), it has been emphasized that changes in human activities and global system of cross-scale (cs) and multi-scale (ms) has an important meaning in the sustainability of society. "The cross-scale interactions between human activities, large scale changes in the Earth system, and local impacts have important implications for human development and create many of the sustainability challenges facing society." (FE final report: 17).

However, in FE, it cannot be said that discussion about the range to be assumed by the scale and scale itself has been made sufficiently. In this report, the term "cs" used there four times in the text (page 17, 28, 32, 35), twice in the figure (1, 3), and "ms" once (37). In particular, "cs" (in fig.1 and 3) has been used as a key concept. Although "cs" is understood it is widely important as a research guideline, which is not explicitly about what there is a specific research theme.

In this study, based on the results of the past my research projects, I would like to try to arrange the various issues related to "cs" in FE. More specifically, I will deal with the issues related to the Protected Areas (PAs) in India, depending on the scales, which include the expansion of PAs network, its acceptance process in India, and the PAs problems in the regional context.

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