

**Seasonal-to-decadal prediction studies under
the SOUSEI program**

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In the former Japanese domestic research program, we had a decadal prediction study, searching for predictability of major decadal climate changes appearing in observations in the past. Various experiments with MIROC and MRI-CGCM3 climate models according to the CMIP5 protocol are conducted and the results are available at the CMIP5 servers. In the new research program, SOUSEI, initialing in the last September, the climate prediction studies are continued, including those of seasonal prediction anew. There are several topical research themes in it: investigating mechanism and predictability of climate variations on seasonal-to-decadal scales, reducing uncertainty in model climate sensitivity, development of climate prediction system and model initialization techniques. The new program will be introduced, reporting progress of the research.