

- Comprehensive climate research programs in Japan have been financially supported by the Ministry of Education, Culture, Sports, Science and Technology–Japan (MEXT), which has been implementing the development of climate models, climate change projections, and creation of information to support the management of climate-related disaster risks, by utilizing the High-Performance Computing System “Earth Simulator.”
  
- As the previous project ended this March, MEXT has launched a new research program named “Integrated research program for advancing climate models” , which aims to conduct more accurate climate change projection and clarify the mechanisms applicable to climate change measures. This program has four main areas (: (A) Global climate change projection and model development, (B) Clarification of carbon cycle mechanism, climate sensitivity and tipping points, (C) Integrated regional climate change projection in Asia-Pacific regions and (D) Integrated regional hazard projection.) to cover climate change projection from global to local scales, and from international to domestic level issues.
  
- In an area of the project, named “Clarification of carbon cycle mechanism, climate sensitivity and tipping points” , we will tackle scientific problems such as reducing the uncertainty of projection on future global warming and carbon budget, whose importance has increased after the entry into force of the Paris agreement. For those purposes, we will further improve the Earth system models and utilize the models for other scientific issues.
  
- MEXT will be upgrading the climate change research support and will endeavor further in providing cutting- edge scientific knowledge that contributes to climate change actions through proactive contribution to formulating IPCC AR6 reports.