



Collaboration with local governments in Japan towards science-based adaptation strategies

Yoshifumi Masago, Tomohiro Fujita,
Kazutaka Oka, Yasuaki Hijioka

Center for Climate Change Adaptation,
National Institute for Environmental Studies



A-PLAT CLIMATE CHANGE
ADAPTATION
INFORMATION
PLATFORM



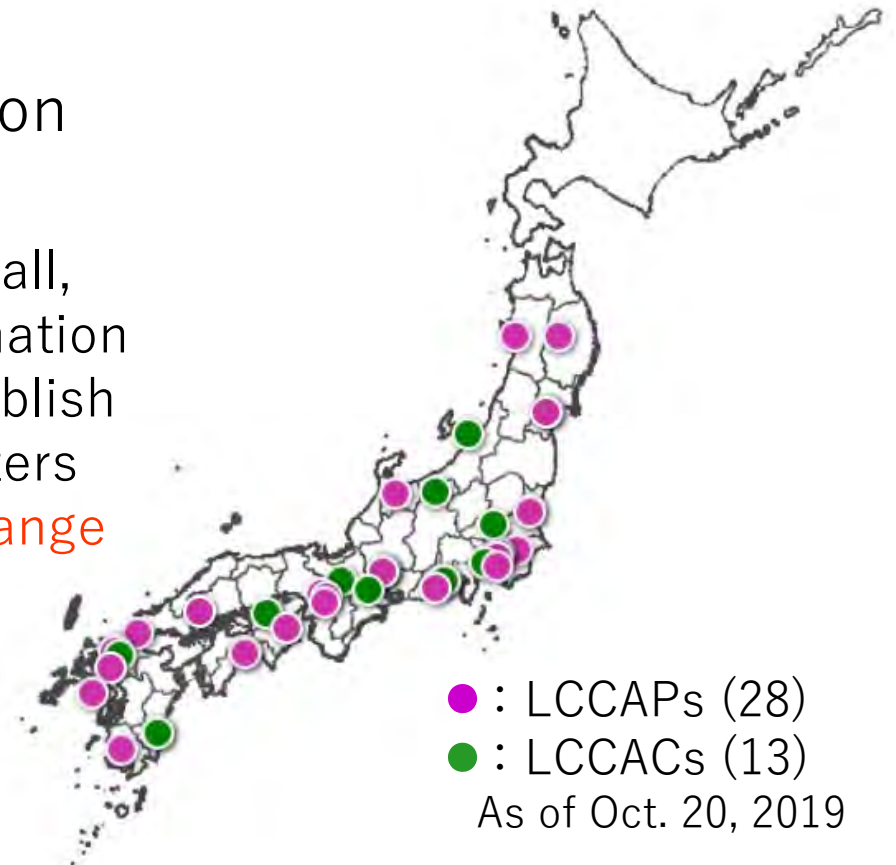
Climate Change Adaptation Act

- Put into effect on December 1st, 2018
- Both Houses passed the bill unanimously



Climate Change Adaptation Act

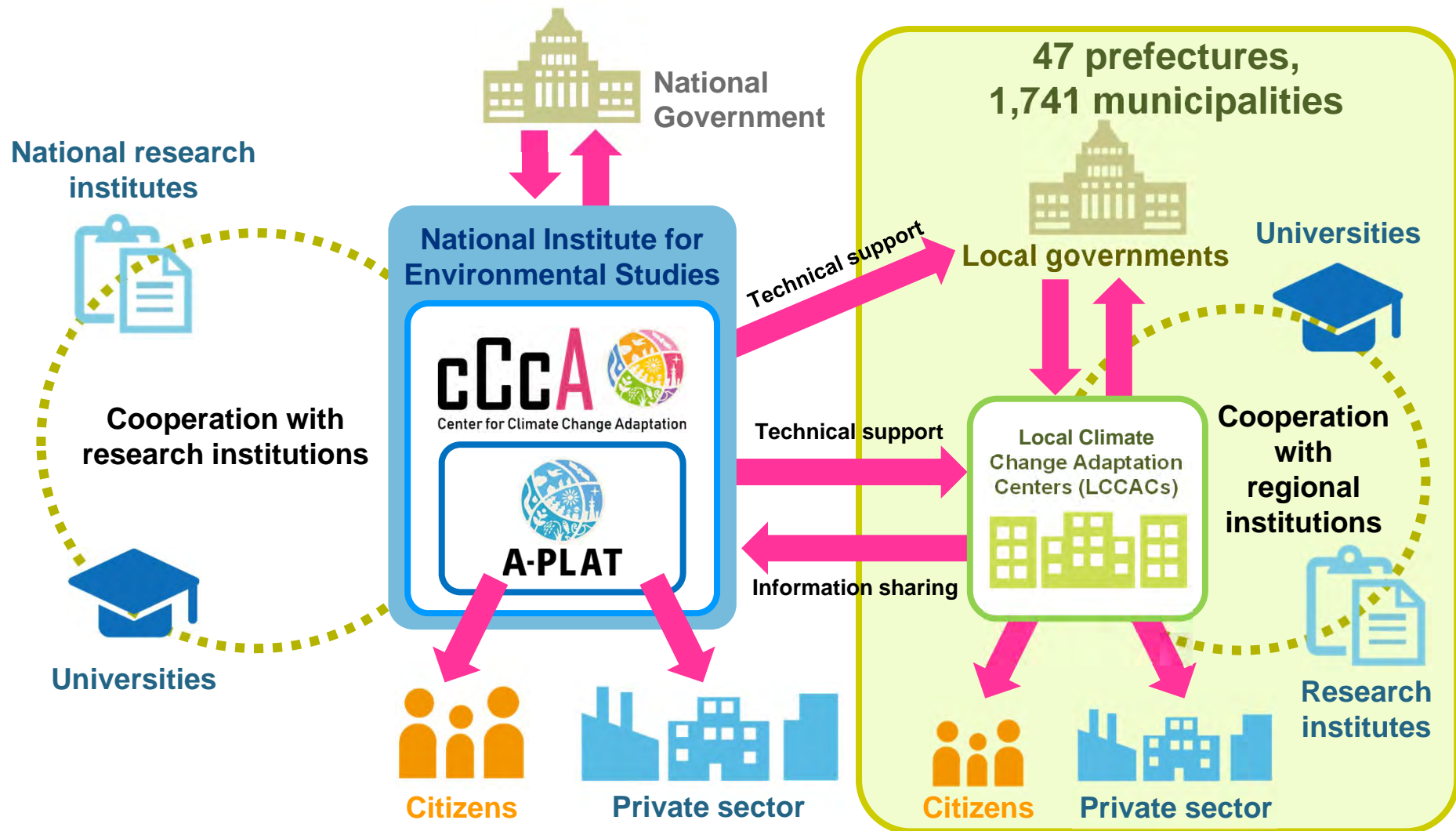
- Local Climate Change Adaptation Plans (Article 12)
 - Prefectures and municipalities shall, either independently or in coordination with each other, endeavor to formulate a **local climate change adaptation plan (LCCAP)**.
- Local Climate Change Adaptation Centers (Article 13)
 - Prefectures and municipalities shall, either independently or in coordination with each other, endeavor to establish systems that will function as centers (referred to as "**Local Climate Change Adaptation Centers (LCCAC)**").



Climate Change Adaptation Act

- Development of domestic adaptation information infrastructure (Article 11)
 - Appoint NIES as the **core of information infrastructure for adaptation**
 - NIES shall:
 - collect, organize, analyze and provide information related to climate change impacts and adaptation; and
 - provide technical advice and support to local governments, local climate change adaptation centers and other institutions
 - NIES will:
 - cooperate with other research institutions; and
 - foster public participation in collecting information about climate change impacts

Roles of CCCA under the Act



Climate Change Adaptation Information Platform (A-PLAT)

- One-stop online resource hub on adaptation to climate change impacts in Japan
 - Climate risk information/data
 - NAP, LCCAPs, LCCACs
 - Guidelines, manuals
 - Workshops, seminars
 - Best practices, interview
 - Activities in private sectors
 - Information for general public
 - Events
- Launched in Aug. 2016
 - Will be renovated in Dec. 2019



Providing scientific information

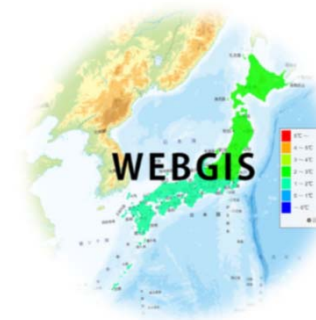


Outcomes of related research projects

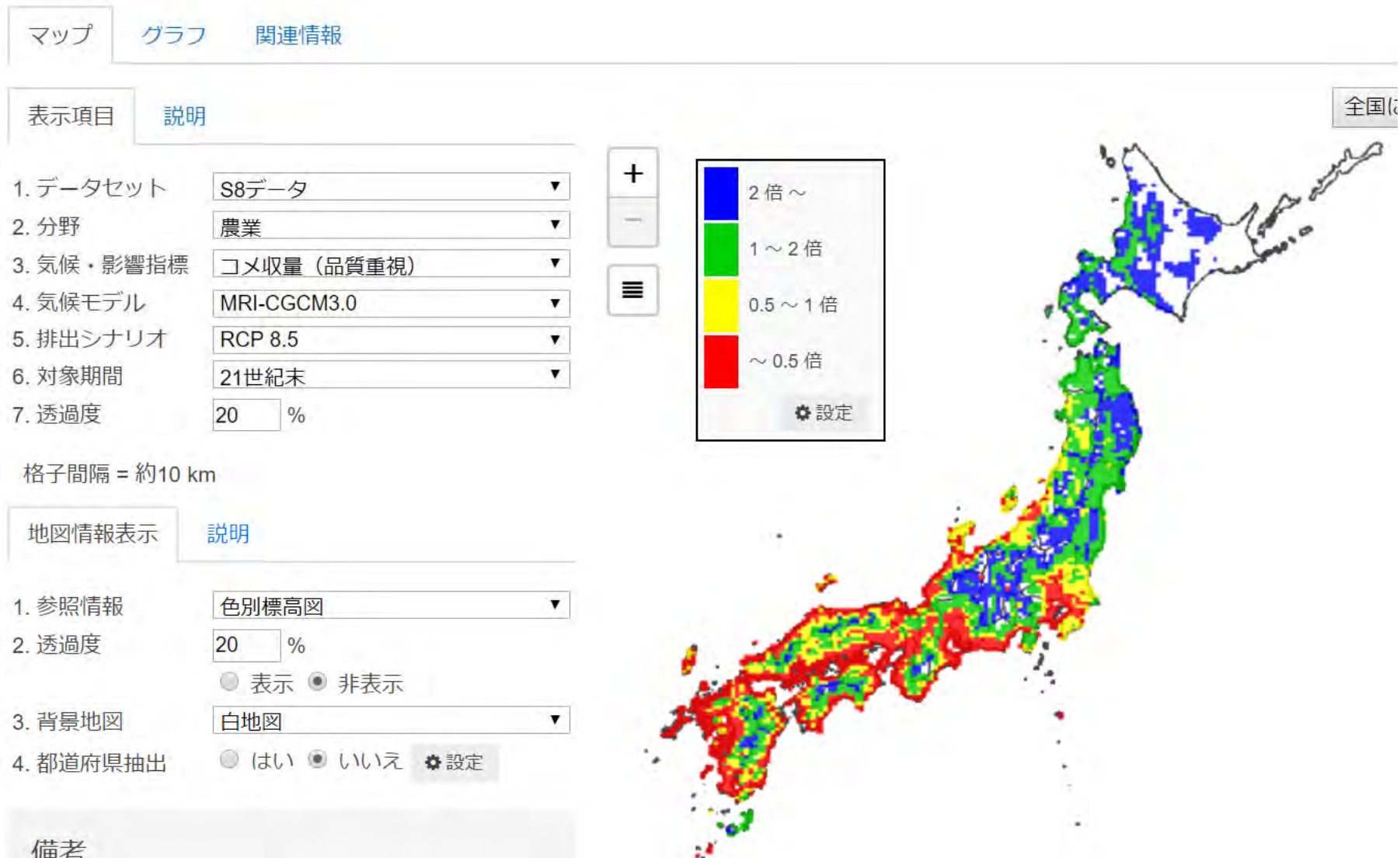


Climate observation data from JMA (AMeDAS)

A-PLAT CLIMATE CHANGE
ADAPTATION
INFORMATION
PLATFORM
気候変動適応情報プラットフォーム



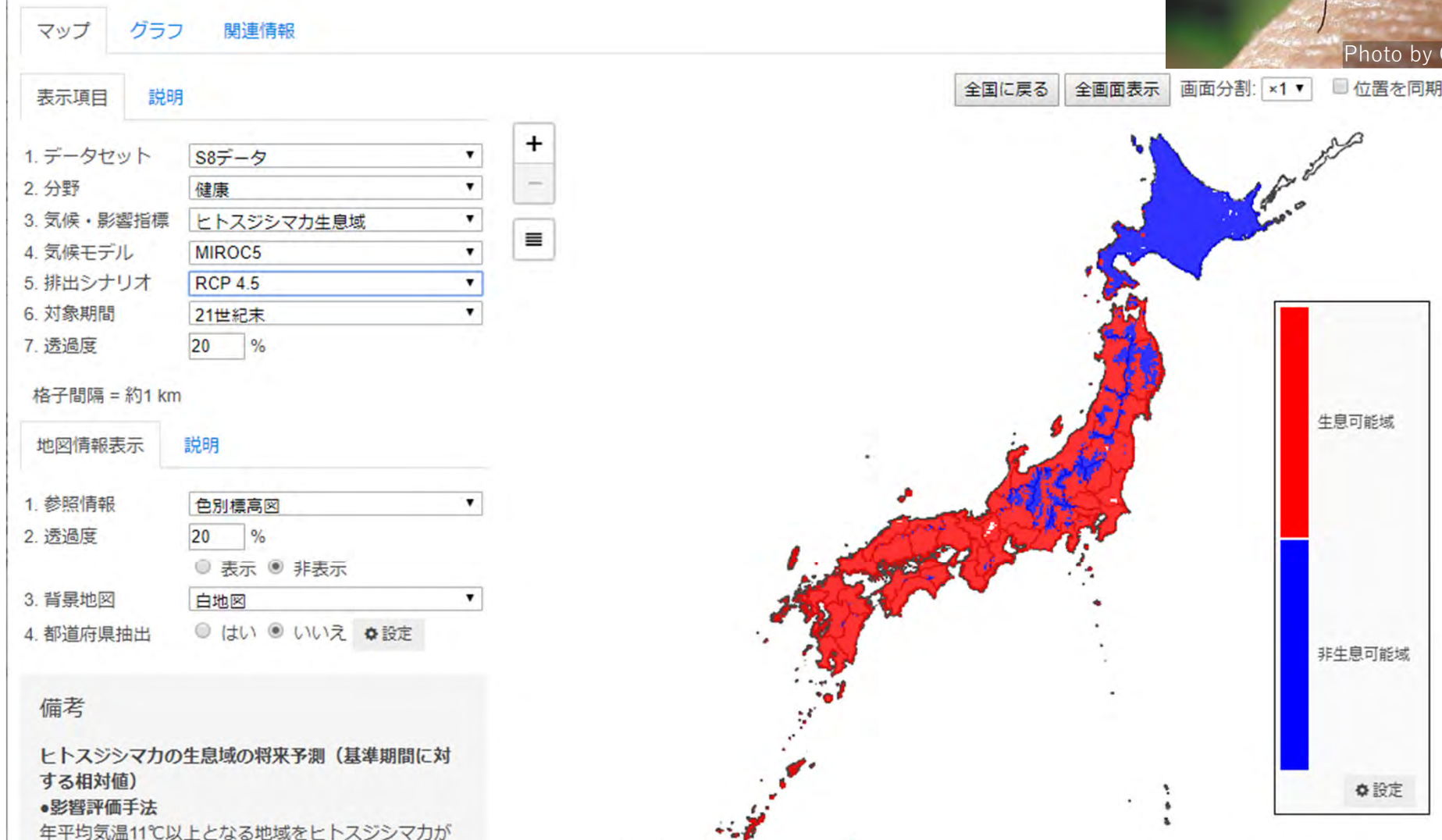
Providing scientific information: Projected rice yields (end of the 21st century)



Providing scientific information: Inhabitable area of *Aedes albopictus*

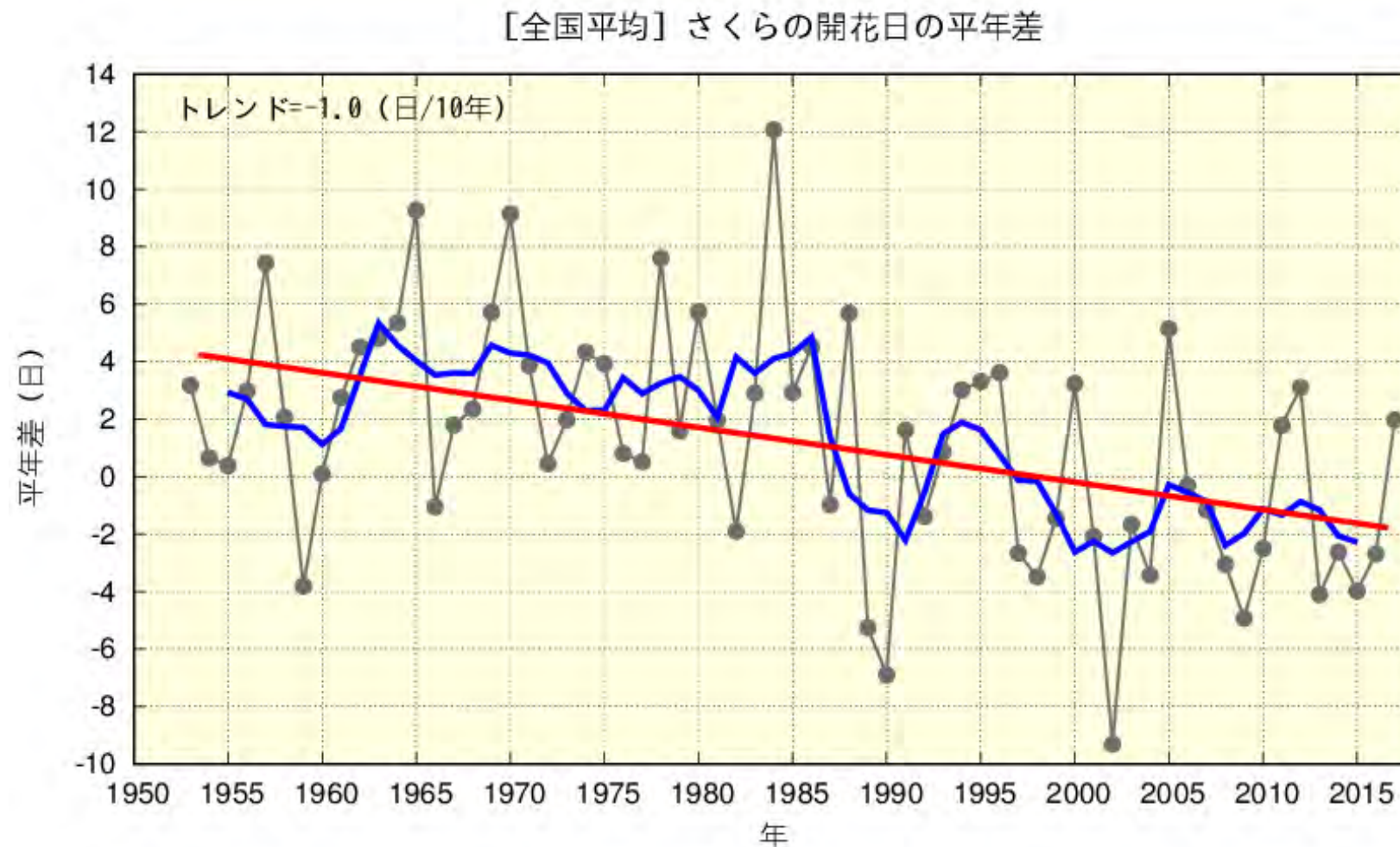


Photo by CDC



Providing scientific information: First bloom date of cherry blossom

- Getting earlier by 0.1 day/year



Communicating with local stakeholders

- Workshops
 - Sharing recent updates on climate change adaptation
 - Discussion on how to develop LCCAPs and LCCACs
- Interview with LCCACs
 - CCCA has been visiting all LCCACs since May 2019
 - Searching for their needs and potential collaboration



Communicating with local stakeholders: Identified needs

A) Dissemination program

- Workshops for the general public on climate change
- Workshops specializing in adaptation plan formulation
- Provide opportunities to share information among local governments and LCCACs.

B) Support research and study

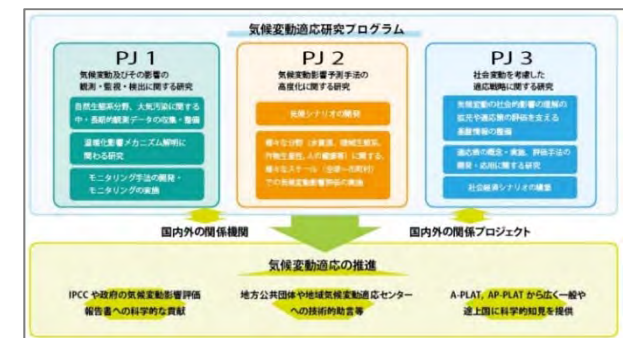
- Arrange system of research that regional adaptation center can participate in
- Advice on the application for external research funds
- Introduce research institutions and researchers that LCCAC can cooperate with

C) Support regional adaptation centers' activities

- Specialized workshops necessary for study and research
- Introduce strategies of other regional adaptation centers
- Support in strengthening collaboration between departments
- Support in strengthening networks among LCCACs
- Organize adaptation related information of relevant government agencies



Local government officers Workshop
(December 5, 2018)



Climate change adaptation research program
(<http://ccca.nies.go.jp/ja/program/index.html>)

Blue: already started

Communicating with local stakeholders: Identified needs (cont'd)

D) Collect and distribute scientific knowledge

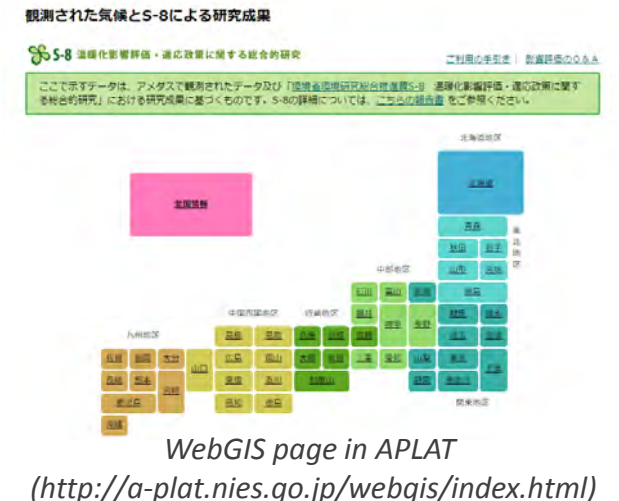
- Provide data of observed and projected climate/impacts
- Support in collecting general information related to climate change

E) Develop tools

- Support in offering information on climate change and the impacts using GIS software
- Support in creating website contents of climate change impacts
- Provide educational leaflet templates

F) Support in developing documents

- Organize general data on climate change
- Provide explanatory materials for stakeholders
- Provide photos and illustrations regarding climate change
- Presentation materials which can be handled by elementary school students as free research (climate change related)



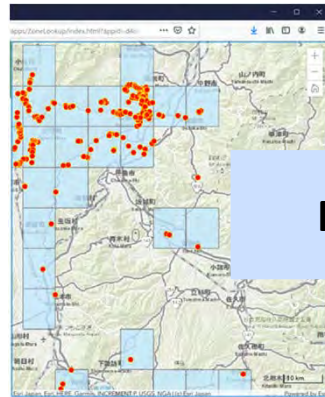
A-PLAT brochure
(<http://www.adaptation-platform.nies.go.jp/info/pamphlet.html>)

Communicating with local stakeholders: Additional A-PLAT contents

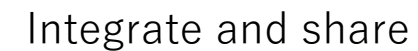
- We have added in A-PLAT:
 - The reports of the interviews
 - Presentation materials on climate change adaptation
 - Good practices by local governments



Survey/observation
in the region



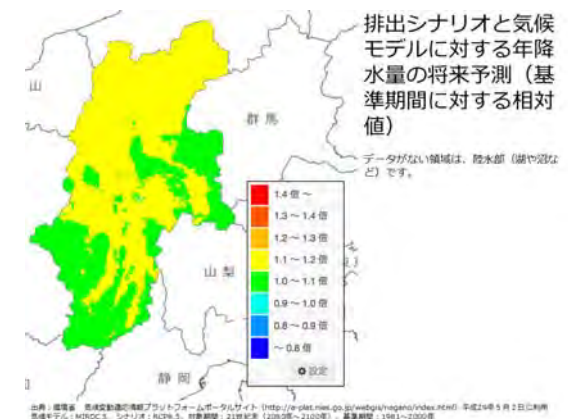
LCCACs



CCCA/A-PLAT



LCCAC website



Regional data upon request

Summary

- A-PLAT is aiming at the one-stop resource hub on climate change adaptation in Japan.
- Since its establishment, CCCA has been actively collaborating with local governments and LCCACs.
- CCCA continues to strengthen network with local governments and LCCACs to promote regional adaptation.