• A few comments on CMIP5/6 based on the RCPs from the viewpoints of IAM/IAV community.

• Kiyoshi Takahashi (NIES, Japan)
• Needs for extension or revision of RCPs for CMIP6 experiments? (or expectation to the appearing SSPs?)
  – e.g. Missing variables for new generation CM experiment, further spatial disaggregation, further temporal extension than ECPs, etc.
    • It would be valuable that blueprints of CM revolution during the CMIP6 process are shared with and recognized by IAM modelers at the earliest timing.

• (In)consistency of RCP3PD with the 2 degree target
  – Treatment of the uncertainty range of climate sensitivity assessed in WG1-AR5 in IAMs’ simple climate models
  – Different representation of C-cycle between IAMs and BGC models.
  – RCP 3.x between RCP3PD and RCP4.5 for compatibility with 2°C target?

• Pattern scaling
  – Applicability for climate parameters other than temperature and precipitation
    • e.g. solar radiation (directly affected by regional distribution of aerosol emission)

• Guidance materials for IAV researchers to utilize CMIP5/CMIP6 data more appropriately
  – e.g. How to choose limited number of climate scenarios based on the RCP scenarios for impact analyses in a specific region/sector?