

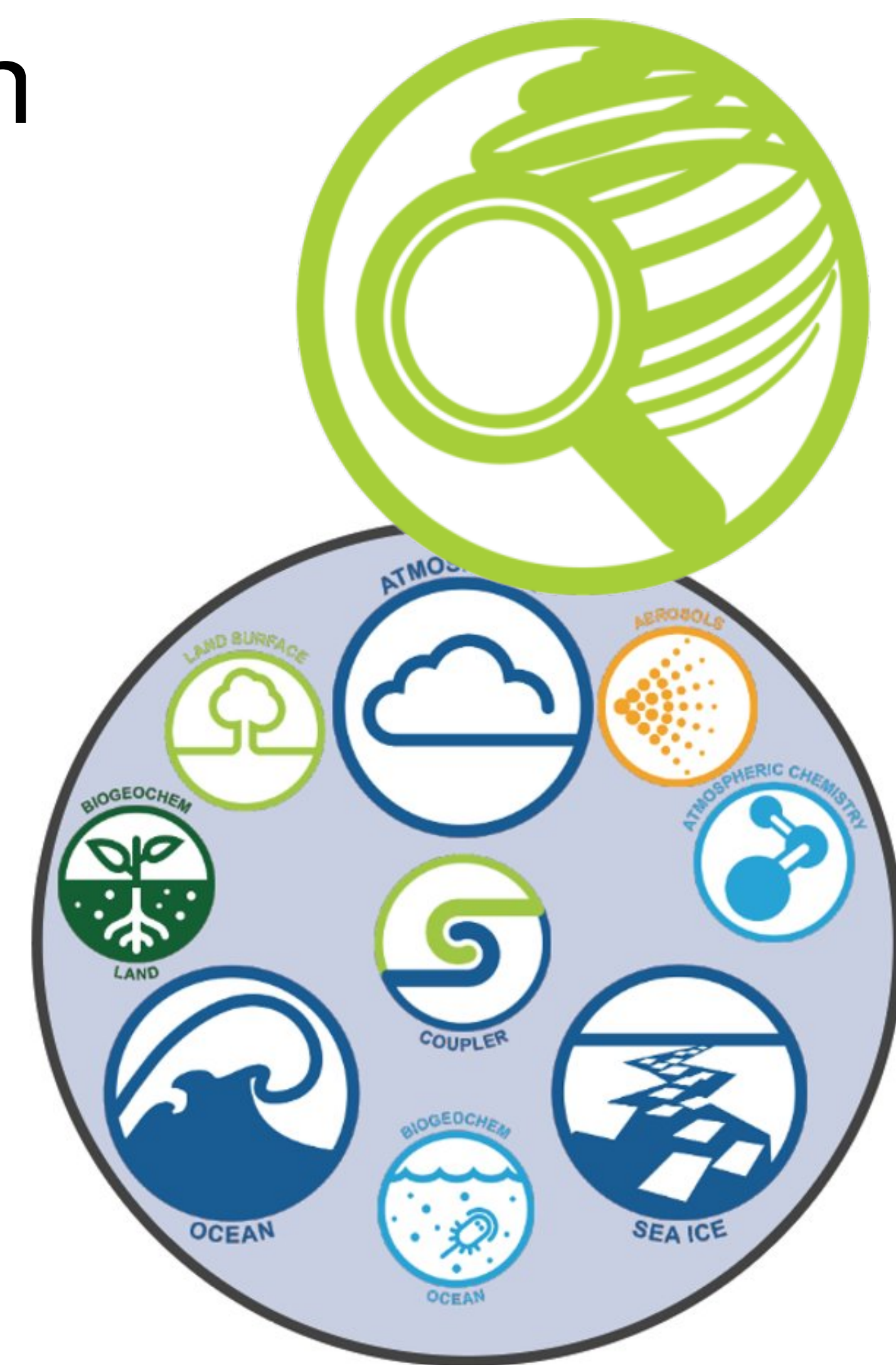
Supporting the Community for the Evaluation of ACCESS Models



Building a community framework for model evaluation of ACCESS Earth System Models

The Model Evaluation and Diagnostics (MED) Team @ ACCESS-NRI

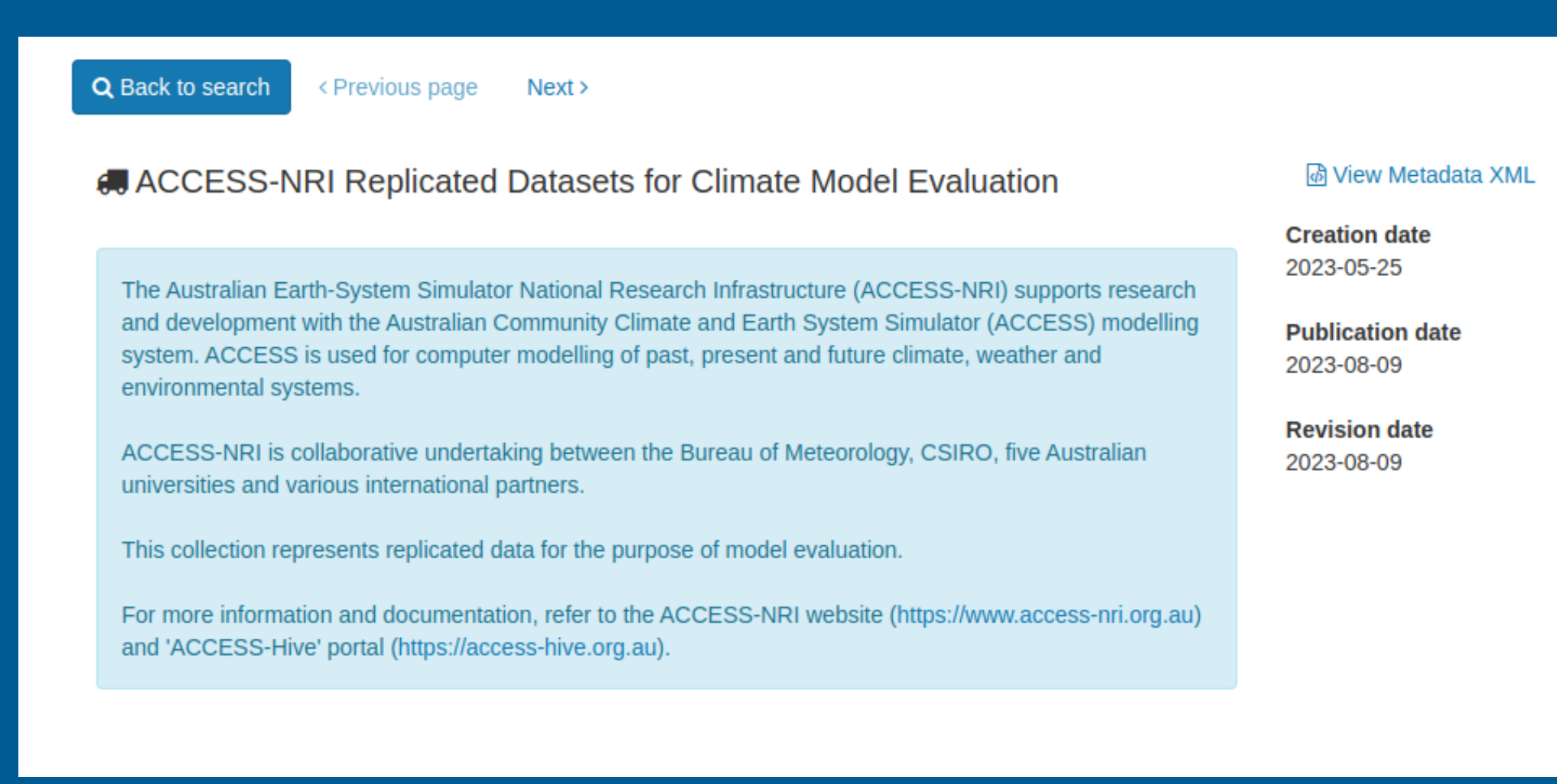
- Establish community guidelines and standards.
- Develop and maintaining model evaluation and diagnostics tools.
- Establish and Support Evaluation and Diagnostics workflow across model components and configurations.
- Establish links with the international community around Model Evaluation



DATA

ACCESS-NRI Support for Model Outputs and Observational Datasets

- Leverage existing NCI Data Collections (CMIP etc.)
- ACCESS-NRI Replicate datasets for Model Evaluation
 - CF-compliant observational datasets to support Model Evaluation frameworks.
 - Support for adding new datasets from the community



TOOLS

ACCESS-NRI Model Evaluation Framework support

- Pre and post-processing of observational datasets and ACCESS-NRI outputs.
- Support of Evaluation Frameworks to cover a range of user cases.
- Contribute to the development of International efforts around model evaluation (ESMValTool, ILAMB etc.)
- Development of new tools to facilitate Model Evaluation at NCI.
- Development and Delivery of new training materials.

ESMValTool

A community diagnostic and performance metrics tool for routine evaluation of Earth system models in CMIP

COSIMA/cosima-recipes

Example recipes for analyzing model output using the cosima-cookbook infrastructure

25 Contributors, 49 Issues, 35 Stars, 45 Forks

ILAMB

International Land Model Benchmarking

As earth system models (ESMs) become increasingly complex, there is a growing need for comprehensive and multi-faceted evaluation of model projections. The International Land Model Benchmarking (ILAMB) project is a model-data intercomparison and integration project designed to improve the performance of land models and, in parallel, improve the design of new measurement campaigns to reduce uncertainties associated with key land surface processes.

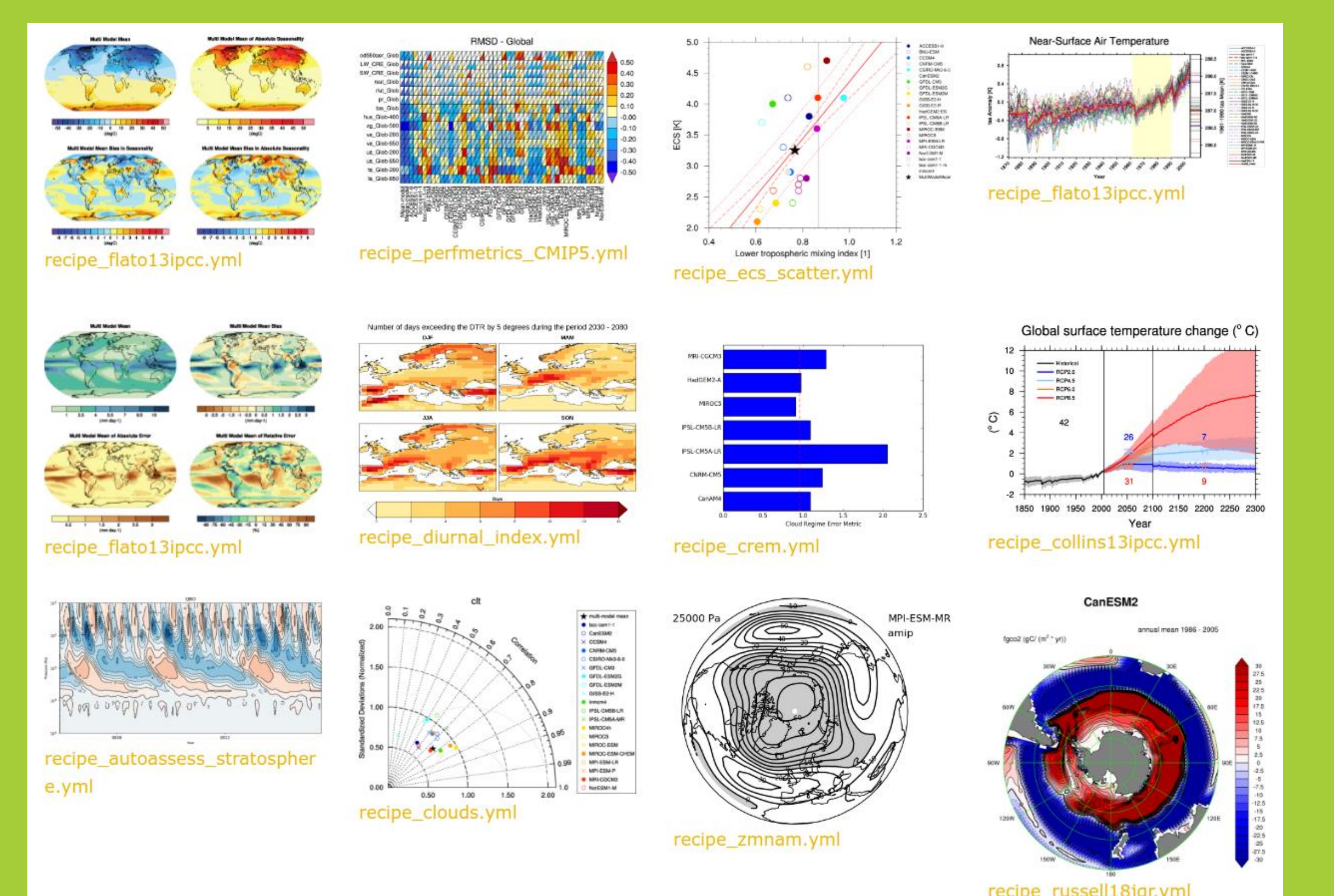
RECIPES

ACCESS-NRI Support for evaluation recipes

- Maintain a core of commonly used recipes.
- Curate and test new contributions from the community.
- Generate Diagnostics and Routine Evaluations of ACCESS models and configurations.
- Support Development of the ACCESS Components.
- Release and support evaluation outputs (CMIP)

ACCESS-NRI MED Portal
(SEE COMPANION POSTER)

	ACCESS-ESM1.5	BCC-CM2-4R	CESM2	CMIP6	IPSL-CM6A-LR	MIROC-ESM2L	MIROC6	UKESM1.0-LL	MIROC6
Ecosystem and Carbon Cycle									
Biomass									
Tropical									
GlobalCarbon									
NBCD2000									
USForest									
Thurner									
ESACCI									
Burned Area									
GFED4.1S									
Carbon Dioxide									
Gross Primary Productivity									
Leaf Area Index									
AVHRR									
AVH15C1									
MODIS									
Global Net Ecosystem Carbon Balance									
Net Ecosystem Exchange									
Ecosystem Respiration									
Soil Carbon									
Nitrogen Fixation									
Hydrology Cycle									
Evapotranspiration									
Evaporative Fraction									
Latent Heat									
Runoff									



USER FEEDBACK

