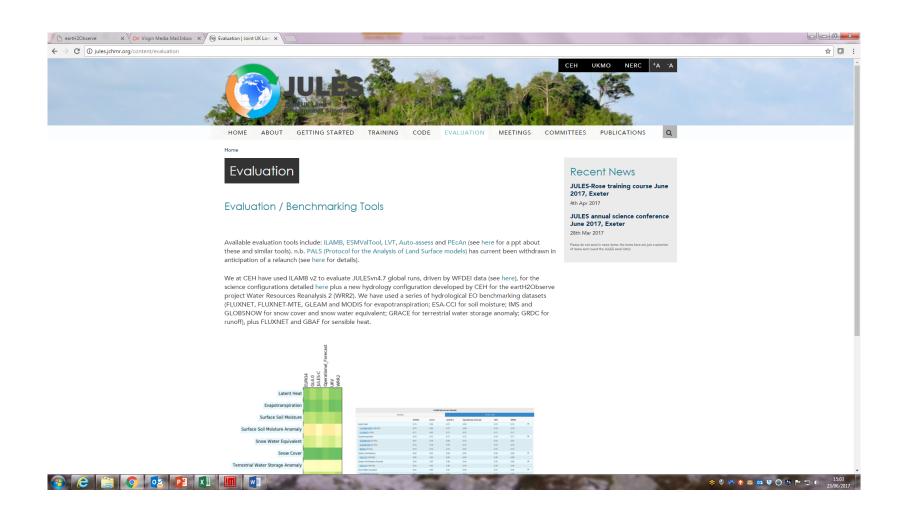
Evaluation of JULES for the community

Eleanor Blyth, Alberto Martinez, Toby Marthews, Eddy Comyn-Platt

New pages on the JULES website

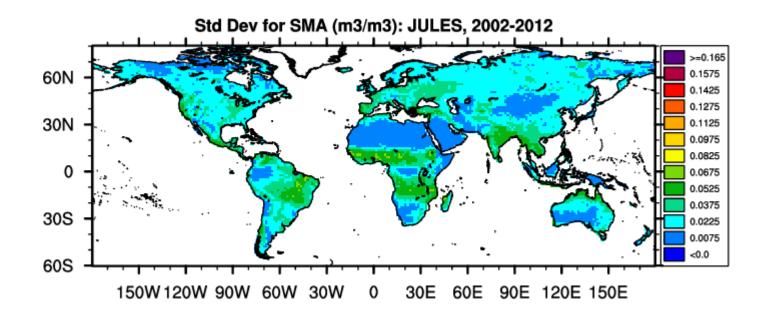


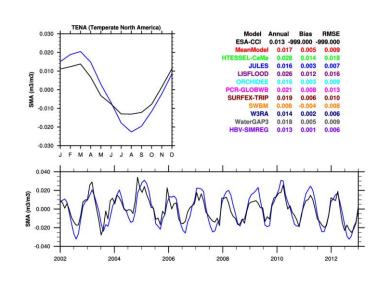
Land (2): Multi-parameter JULES evaluation

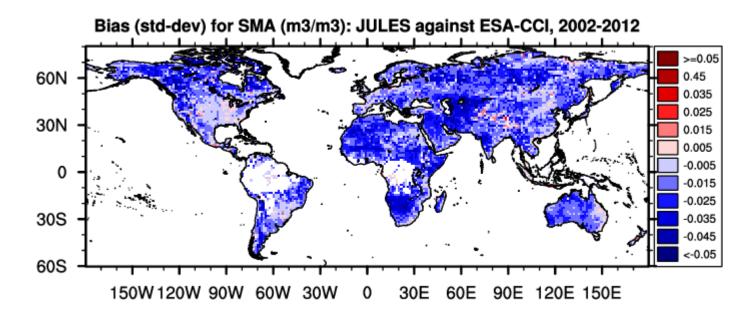
Martinez-de la Torre, Blyth



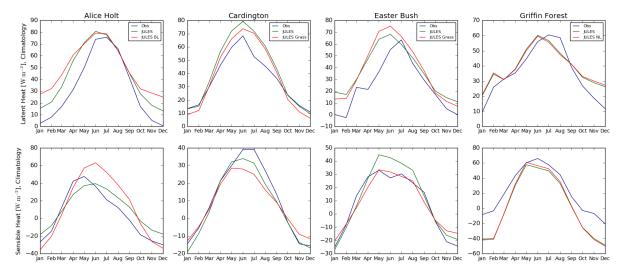
- Evaluation of JULESvn4.7 global runs with ILAMB v2.
- EO benchmarking datasets include: FLUXNET, FLUXNET-MTE, GLEAM and MODIS (evapotranspiration);
 ESA-CCI (soil moisture); IMS and GLOBSNOW (snow cover and snow water equivalent); GRACE (terrestrial water storage anomaly); GRDC (runoff); FLUXNET and GBAF (sensible heat).

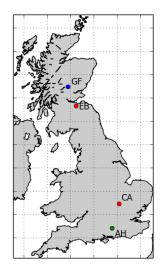


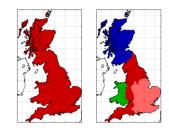


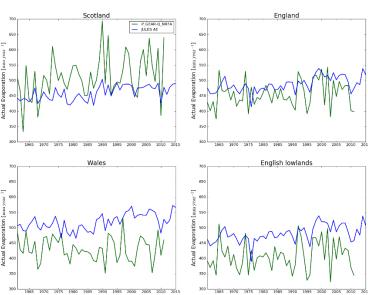


For the UK we have developed a set of data for evaluating the Evaporation: monthly flux data and annual river flow





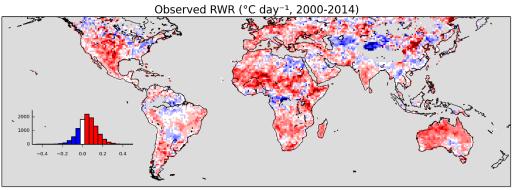


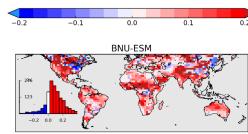


To be published......

Land (1): Exploiting new metrics

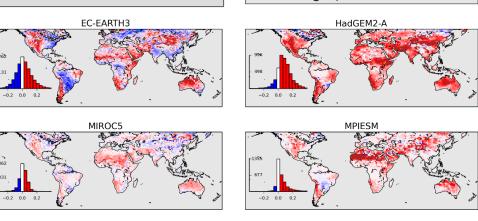
Harris





NorESM1-M

- Use MODIS LST during dry-downs to evaluate where the surface energy budget is limited by soil moisture
- Offline land surface model intercomparison
 - JULES, ISBA, JSBACH, CLM, ...
 - WFDEI forcing
 - JULES to use UKESM1-like configuration
- CMIP5 model intercomparison
 - AMIP simulations
 - Include HadGEM2-A, HadGEM3-A (GA5), UKESM1
 - Requires 3 hourly surface diagnostics



Harris, et al (2017), *J. Hydromet.*, **18**, 1453–1470, https://doi.org/10.1175/JHM-D-16-0227.1

MRI-CGCM3