Supplement of Hydrol. Earth Syst. Sci., 24, 75–92, 2020
https://doi.org/10.5194/hess-24-75-2020-supplement

Hydrology and Earth System Sciences
Open Access

Supplement of

A global-scale evaluation of extreme event uncertainty in the *eartH2Observe* project

Toby R. Marthews et al.

Correspondence to: Toby R. Marthews (tobmar@ceh.ac.uk)

Supplementary information

Data and code availability

All simulation data have been made publicly-available through a Water Cycle Integrator portal (WCI) at https://wci.eartH2Observe.eu/. Requests for further data are very welcome and may be addressed to the corresponding author.

Global maps were calculated for sections of the globe using a custom script written in Python v.2.7.5 and then knitted together using NetCDF Operators (NCO) Tools (Zender, 2008) called from a custom script written in R v.3.5.1 (R Core Team, 2018) (scripts are available on request from the corresponding author). Visualisations were created using Panoply v.4.4.1 and R v.3.5.1 (R Core Team, 2018).

Uncertainty maps

Absolute uncertainty numbers may not be comparable between this study and other simulations, but our results give a first estimate of the relative uncertainties of predictions from particular models and precipitation products of evapotranspiration highs (Fig. S1), evapotranspiration lows (Fig. S2), runoff highs (Fig. S3) and runoff lows (Fig. S4).

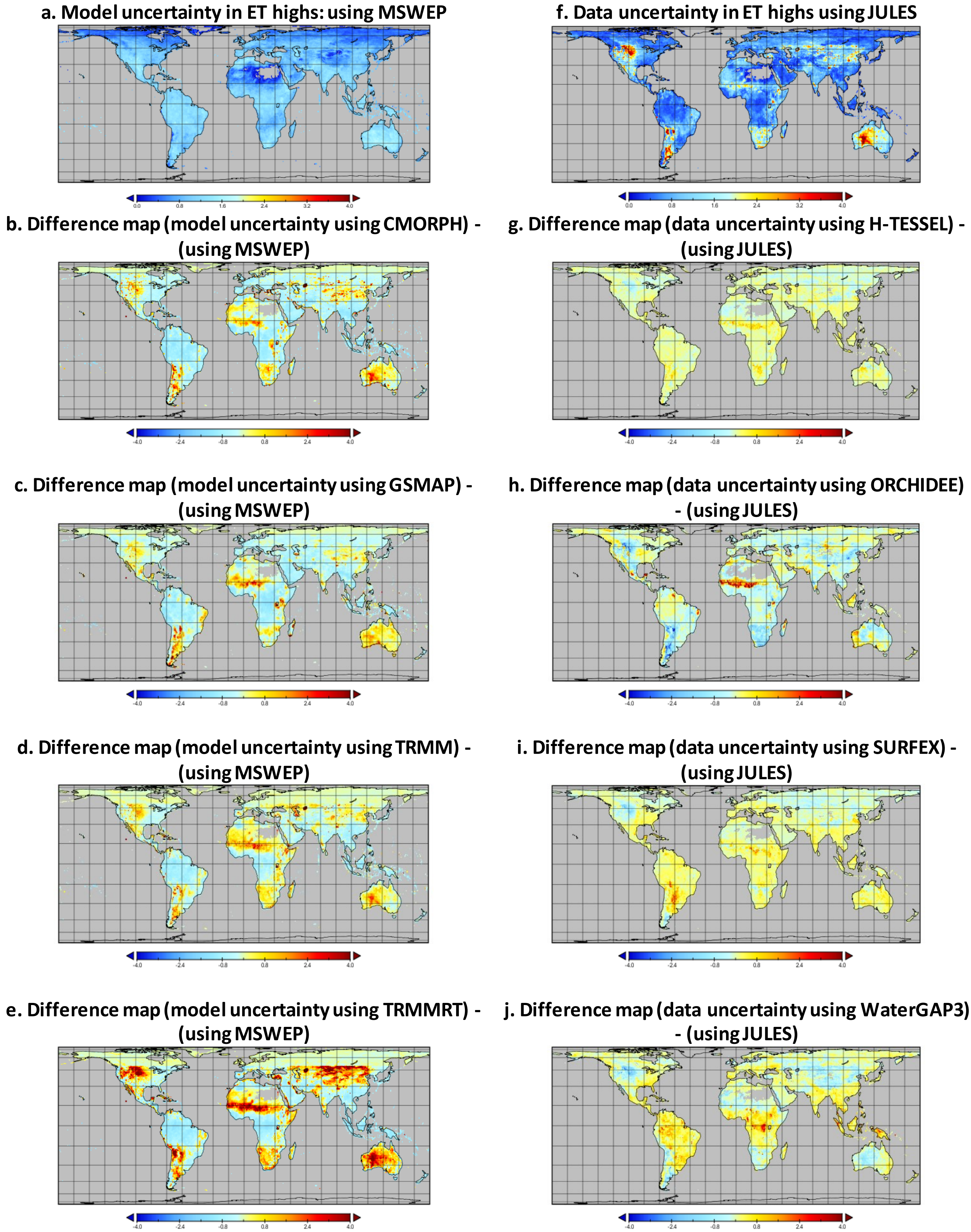

Fig. S1: Evapotranspiration (ET) highs. Note the differing scales: plots in top row scale ranges 0.0-4.0 extreme events per year (EE/yr) while the remaining rows ranging -4.0 to 4.0 EE/yr.

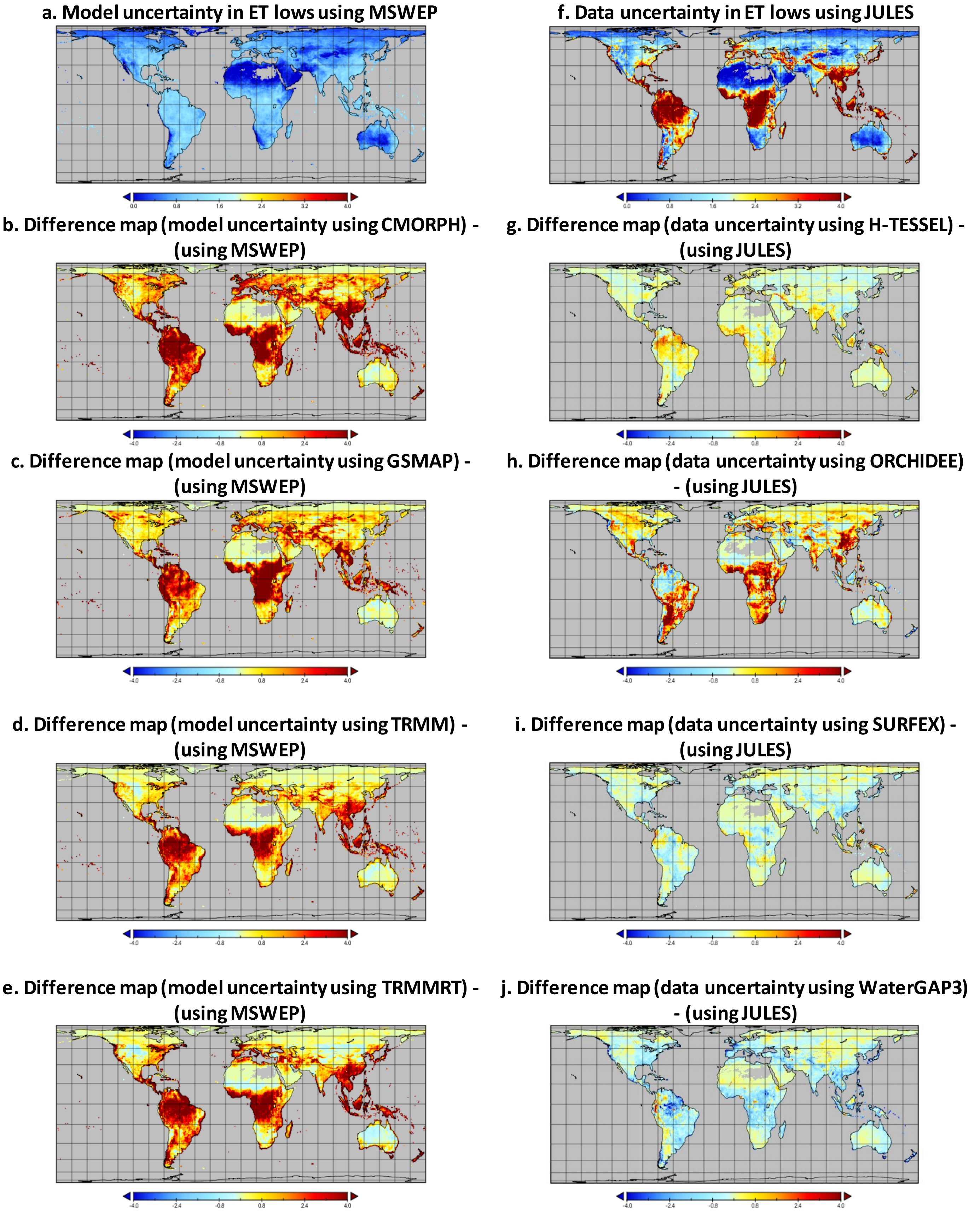

Fig. S2: Evapotranspiration (ET) lows. Note the differing scales: plots in top row scale ranges 0.0-4.0 extreme events per year (EE/yr) while the remaining rows ranging -4.0 to 4.0 EE/yr.

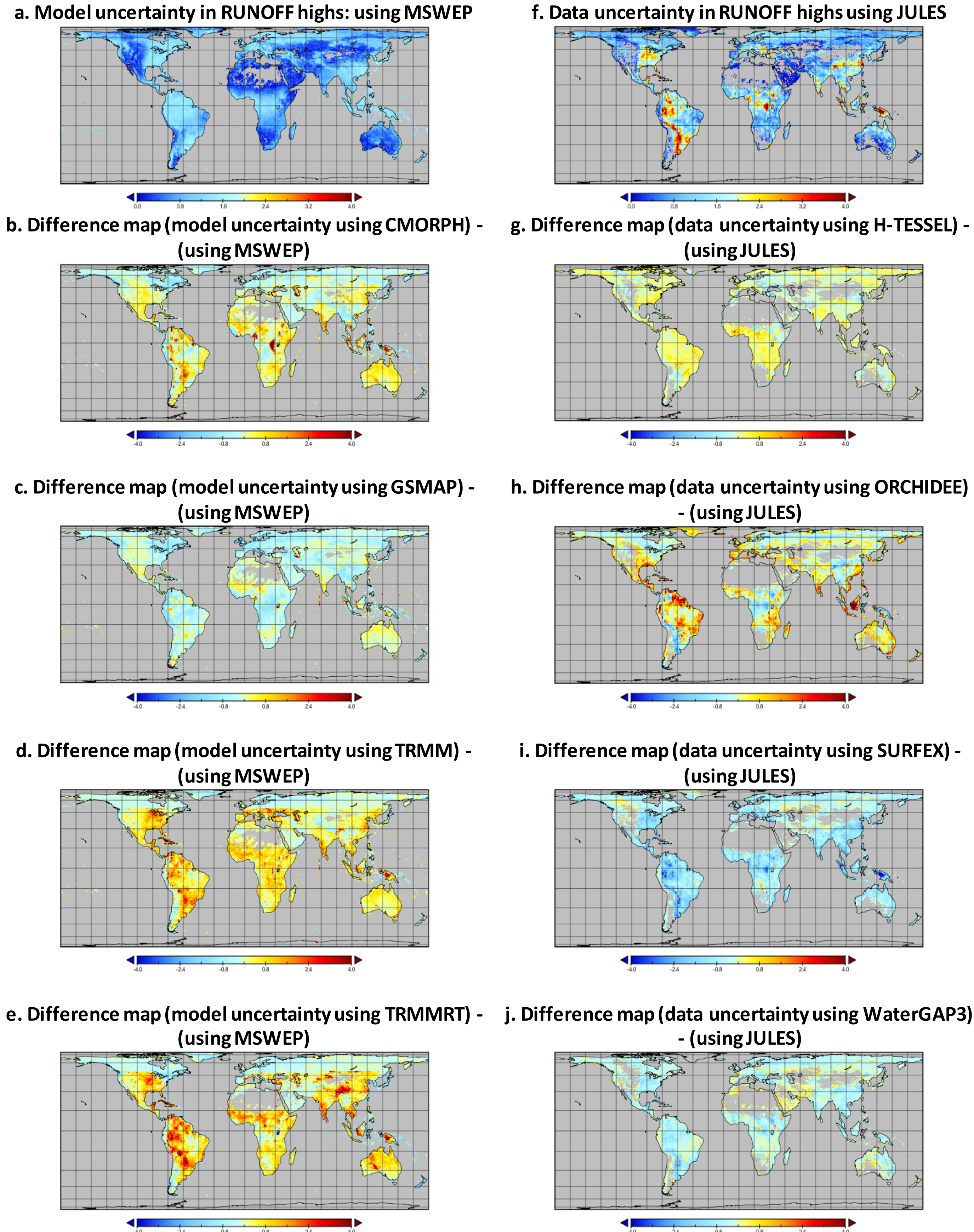

Fig. S3: Runoff highs. Note the differing scales: plots in top row scale ranges 0.0-4.0 extreme events per year (EE/yr) while the remaining rows ranging -4.0 to 4.0 EE/yr.

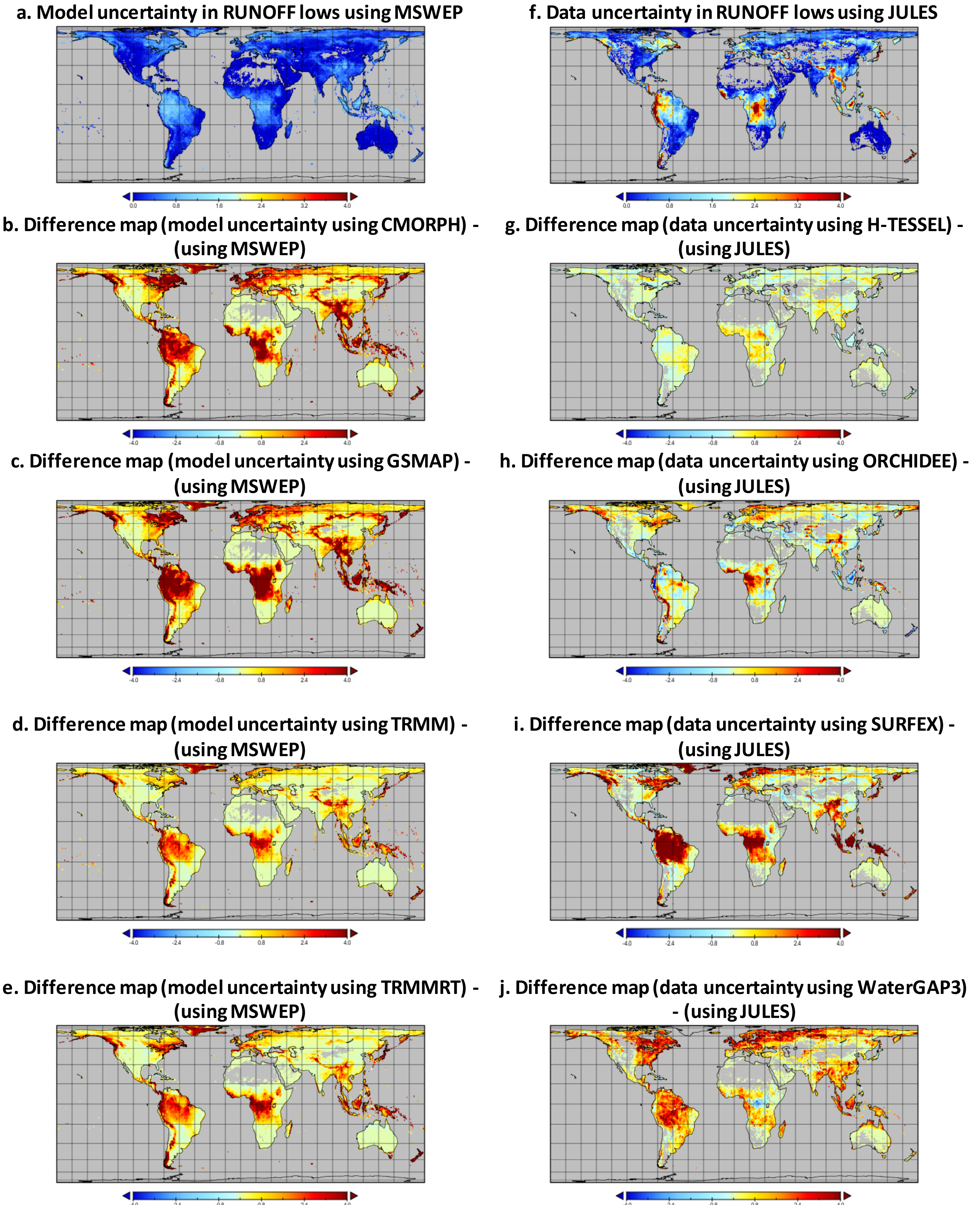

Fig. S4: Runoff lows. Note the differing scales: plots in top row scale ranges 0.0-4.0 extreme events per year (EE/yr) while the remaining rows ranging -4.0 to 4.0 EE/yr.

References

R Core Team (2018). R: A language and environment for statistical computing, (ed.), R Foundation for Statistical Computing, Vienna, Austria.

Zender, C. S. (2008). Analysis of Self-describing Gridded Geoscience Data with netCDF Operators (NCO). ***Environmental Modelling & Software*****,** ***23*****(10), 4.**