

Issue/Need identified	Detailed description	Link to github issue	Desired timeframe	Details about timeframe
Running model including ability to add additional diagnostics	AM3 and ESM1.5 that runs sufficiently well to be useful. Consideration of whether to routinely output to netcdf (i.e. ignore pd, pm,etc.) and what capability this needs to support. Additional diagnostics needed to permit accurate conservation checks	https://github.com/ACCE-SS-NRI/CMI-P7-Hackathon/issues/28		
Sanity checks and conservation checks as part of live diagnostics	Conservation checks at tile, grid cell, and full globe (atmos+land+ocean) – radiation, energy balance, carbon, nitrogen, phosphorus Will need to refer to the cable_checks code that is used in offline will need modifications to STASH files (stocks at the end of reporting period not averages). may build off ESM1.5/MD existing scripts questions about how to fit in with benchcab (spatial) and call within payu/rose-cylc	https://github.com/ACCE-SS-NRI/CMI-P7-Hackathon/issues/29		Provenance and version controlling needs to be in place – github/utlis directory

	?			
Capability to extract time step by time step output at a limited number of grid cells from coupled model (AM3/ESM1.5) Hopefully movable. Probably bespoke post-processing (not ESMvaltool) Consistency checks and conservations, ability to pass to benchcab and me.org	Aim for an ability to compare offline at single sites, with offline-as-ACCESS and coupled at same sites Ability to compare with single column model Requires modifications through STASH May require a UM->netcdf conversion for the time series data, NB likely needs to be ALMA compliant to be useful in me.org (does this exist?)	https://github.com/ACCESS-NRI/CMIP7-Hackathon/issues/30		Ask Scott Wales for guidance on generation of time series output?
Ability to routinely compare runs/configurations of coupled model against a set of observations	Likely utilise iLAMB running against multiple simulations of ACCESS – will need to ensure that ACCESS output is sufficient (STASH) and in correct format for iLAMB (CF compliant)	https://github.com/ACCESS-NRI/CMIP7-Hackathon/issues/31		