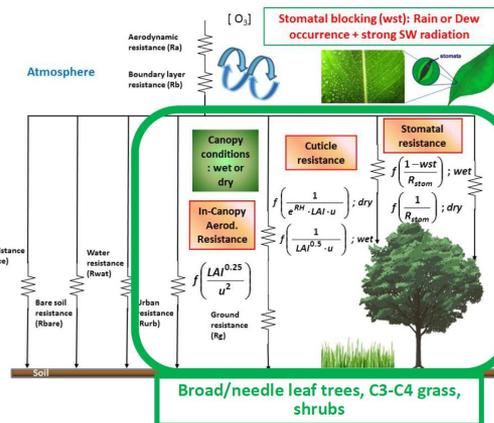
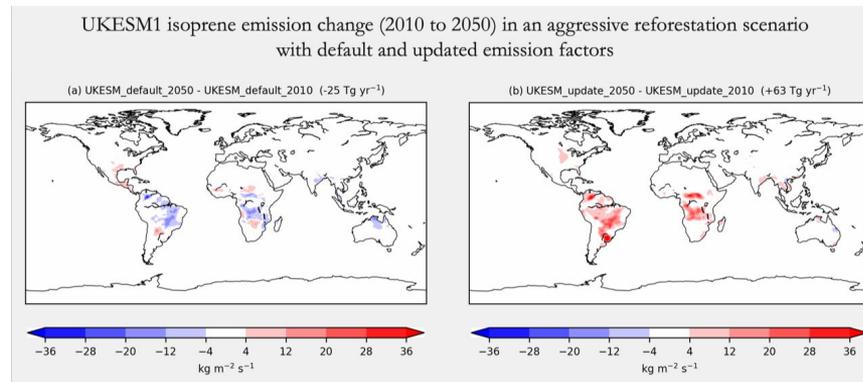


James Weber et al. (Cambridge, Sheffield)

- update of bVOC emission factors in iBVOC
 - improves positive bias in grassland isoprene emissions
 - reduced location bias
 - grasslands □, tropical broadleaf trees □
 - paper submitted to GMD
- also: improved representation of bVOC chemistry in UKCA
 - improvements in isoprene burden and HO_x budget
 - paper in GMD: **GMD, 14, 5239–5268, 2021**
- c.f., talk on Thursday

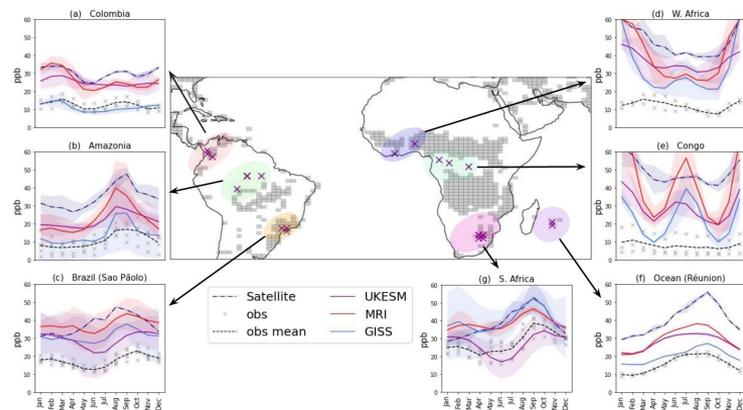
Garry Hayman et al. (UKCEH)

- dry-deposition scheme for gas-phase species implemented in JULES
 - emphasis on lodging code to JULES- and UK-trunk in 2022
 - new deposition scheme available in JULES standalone and coupled
 - removes limitations imposed by surface tile configuration → UM/UKCA becomes tile-agnostic
- part of move to surface exchange scheme for JULES
 - → unifying emissions and deposition into one section



Flossie Brown (CASE PhD, University of Exeter)

- study of ozone–climate penalty impacts on plants with JULES
 - climate change → increase in surface O₃ (**climate penalty**)
 - us on impacts in tropics (poorly studied region)
 - quantify O₃–climate penalty over tropical Africa and South America (Amazonia)
- paper accepted in ACP (August 2022)



Noel Clancy (CASE PhD, University of Reading)

- study to further process understanding of ozone vegetation damage impacts with JULES
 - large list of processes under consideration
 - net primary productivity, net ecosystem exchange, etc.
 - latent and sensible heat fluxes, evapotranspiration, soil moisture, etc.

