'Rainfall recycling' as a landscape function: connecting

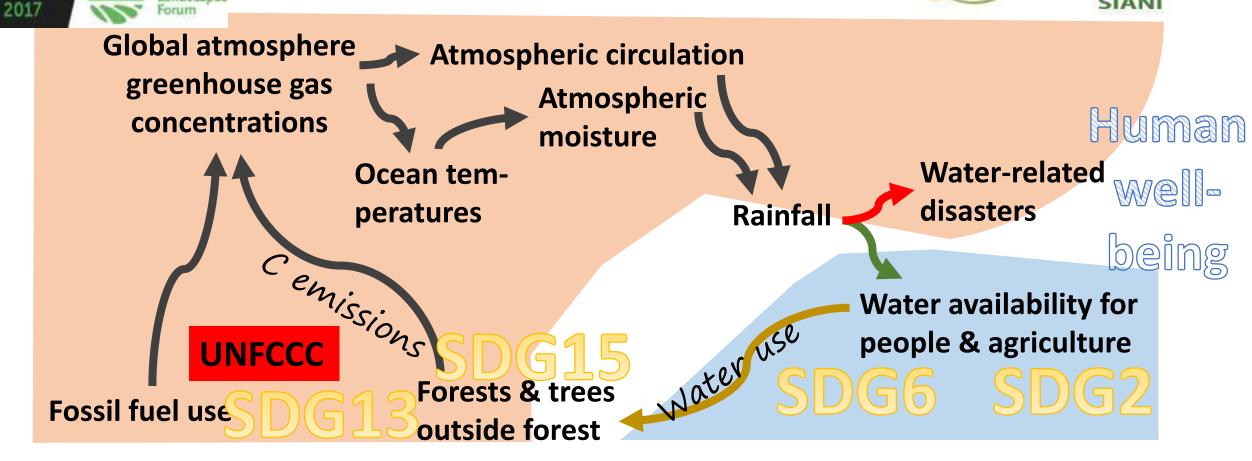
SDGs 6, 13 and 15

Dec. 19-20,









## 'Rainfall recycling' as a landscape function: connecting

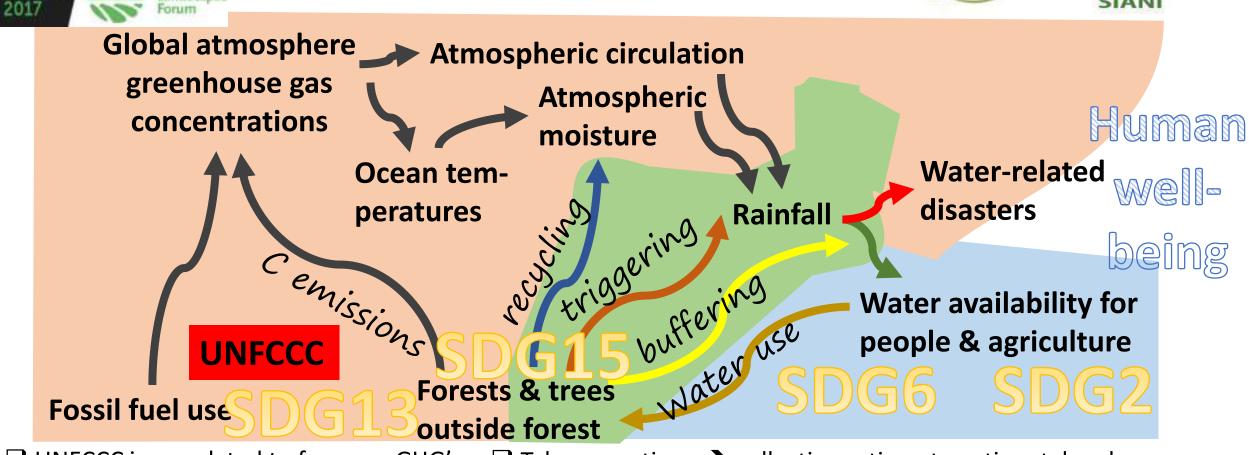
SDGs 6, 13 and 15

Dec. 19-20,









- ☐ UNFCCC is mandated to focus on GHG's
- ☐ Direct climate effects of trees matter
- ☐ Landscape-scale SDG coherence options
- ☐ Teleconnections → collective action at continental scales
- ☐ Existing blue water agreements & rights miss links to 'drivers'
- ☐ Site-specificity of net effects of forests on water for people

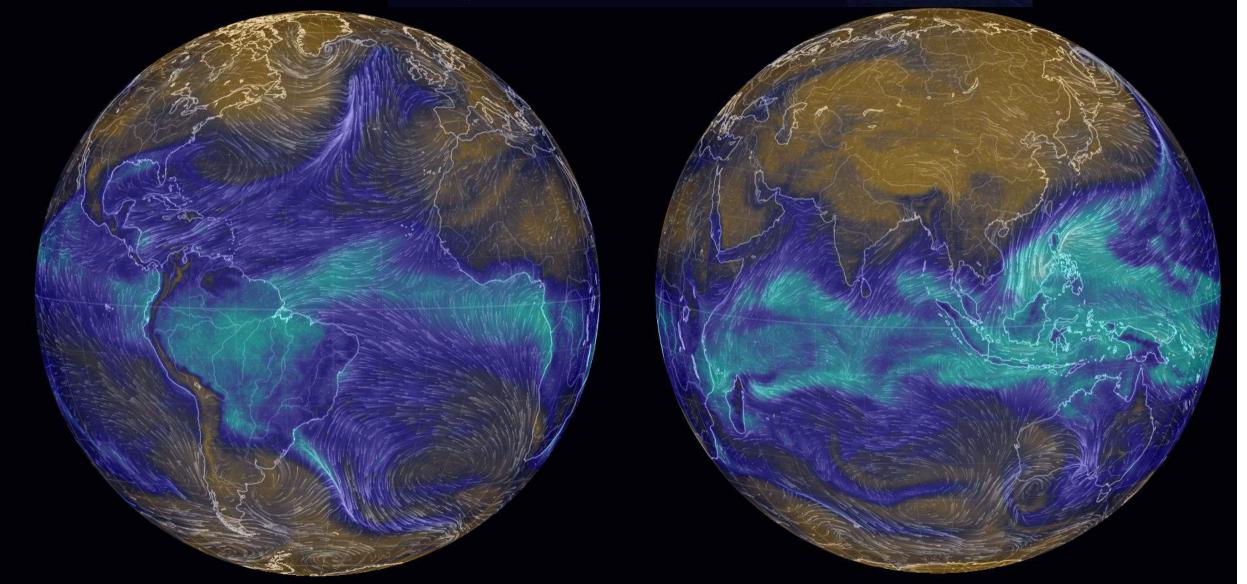
Total Precipitable Water + Wind vector at 80 m height

Date | 2017-12-18 10:00 Local 

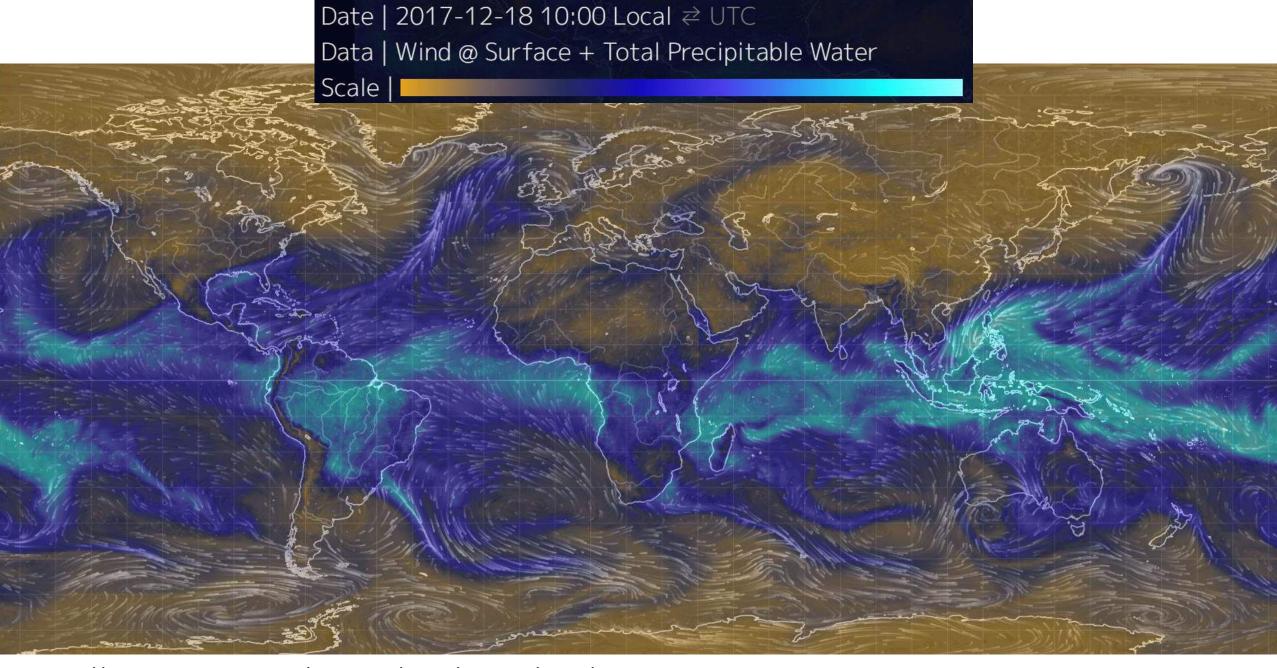
UTC

Data | Wind @ Surface + Total Precipitable Water

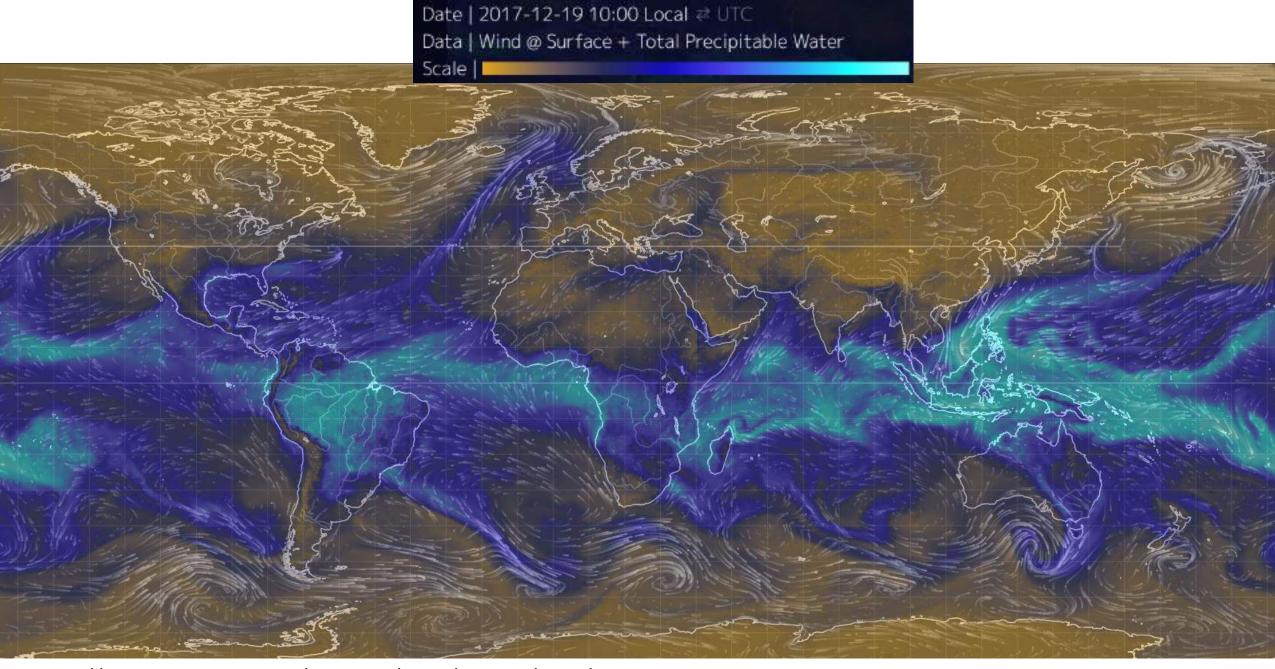
Scale | ■



https://earth.nullschool.net/#current/wind/surface/level/overlay=total\_precipitable\_water/orthographic=-43.22,3.29,456



https://earth.nullschool.net/#current/wind/surface/level/overlay=total\_precipitable\_water/equirectangular=-336.85,0.00,218



https://earth.nullschool.net/#current/wind/surface/level/overlay=total\_precipitable\_water/equirectangular=-336.85,0.00,218

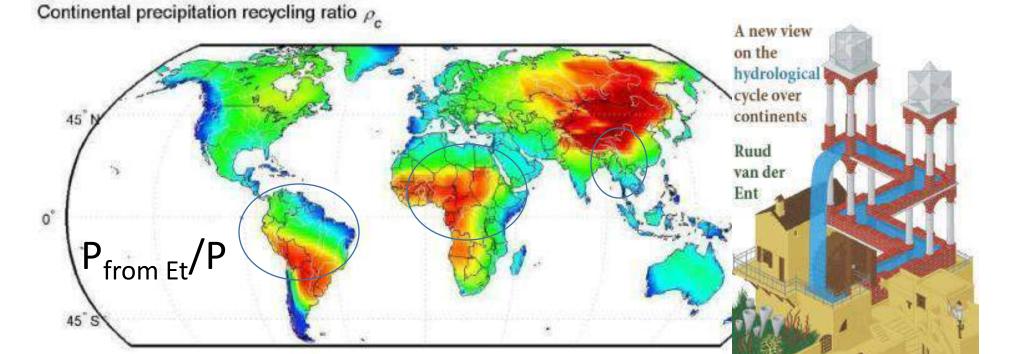


Figure 3. Average continental precipitation recycling ratio  $\rho_c$  (1999–2008).

van der Ent RJ, Savenije HHG, Schaefli B, Steele-Dunne SC, 2010. Origin and fate of atmospheric moisture over continents. Water Resources Research 46, W09525,

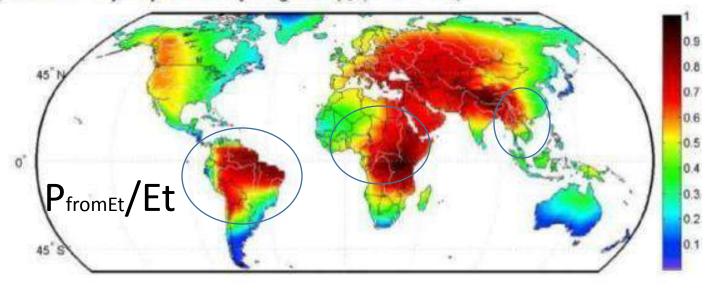


Figure 4. Average continental evaporation recycling ratio  $\varepsilon_c$  (1999–2008).

## 'Rainfall recycling' as a landscape function: connecting

SDGs 6, 13 and 15

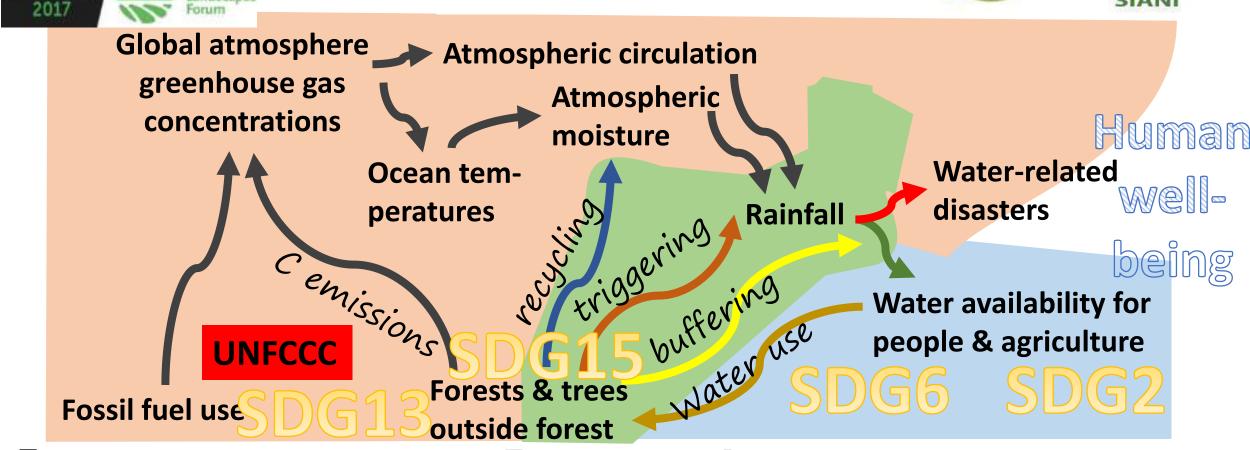
Dec. 19-20.



PROGRAM ON Forests, Trees and Agroforestry







- ☐ UNFCCC is mandated to focus on GHG's
- ☐ Direct climate effects of trees matter
- ☐ Landscape-scale SDG coherence options
- ☐ Teleconnections → collective action at continental scales
- ☐ Existing blue water agreements & rights miss links to 'drivers'
- ☐ Site-specificity of net effects of forests on water for people