

AR4 & AR5

changes and new outputs

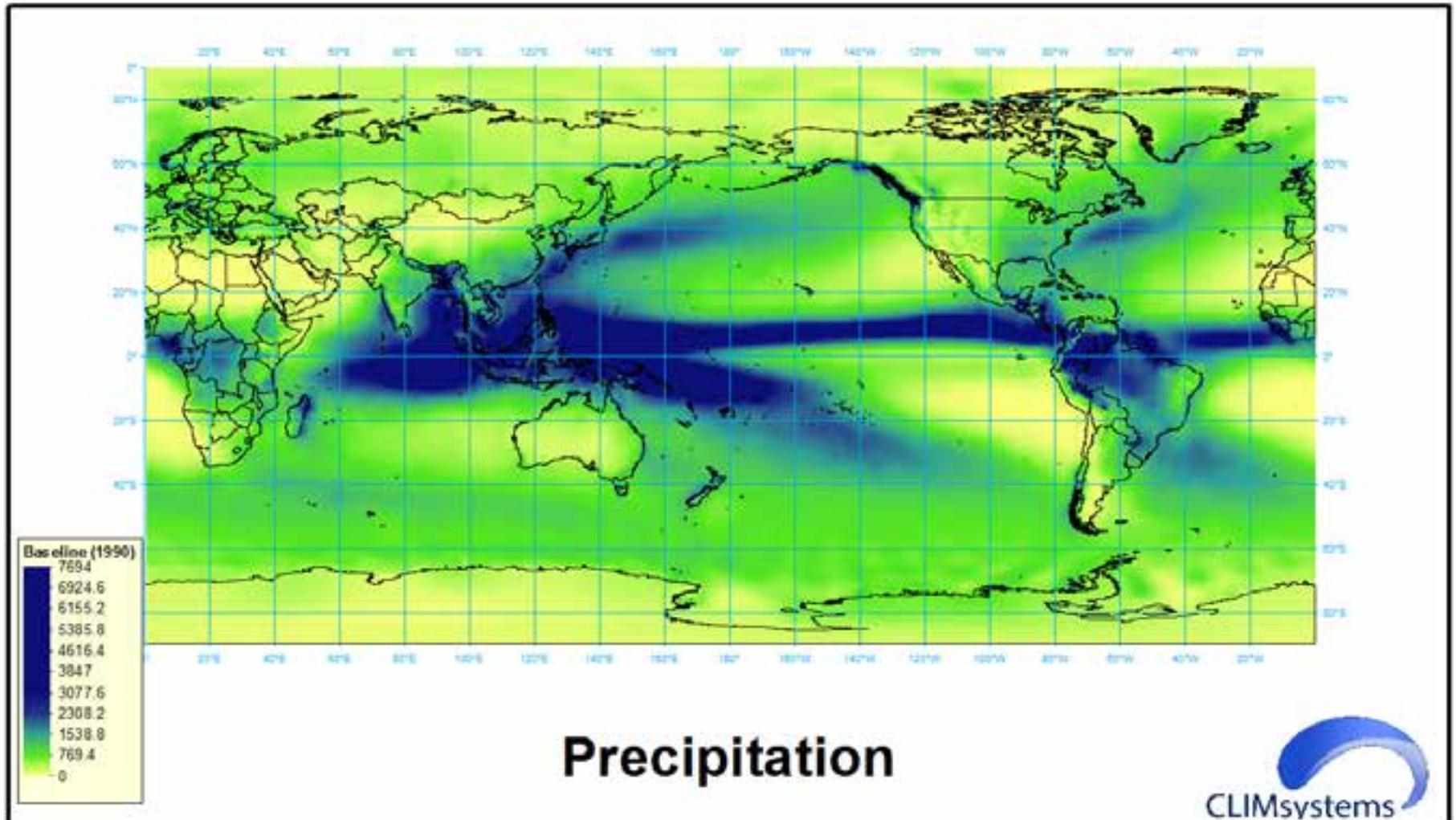
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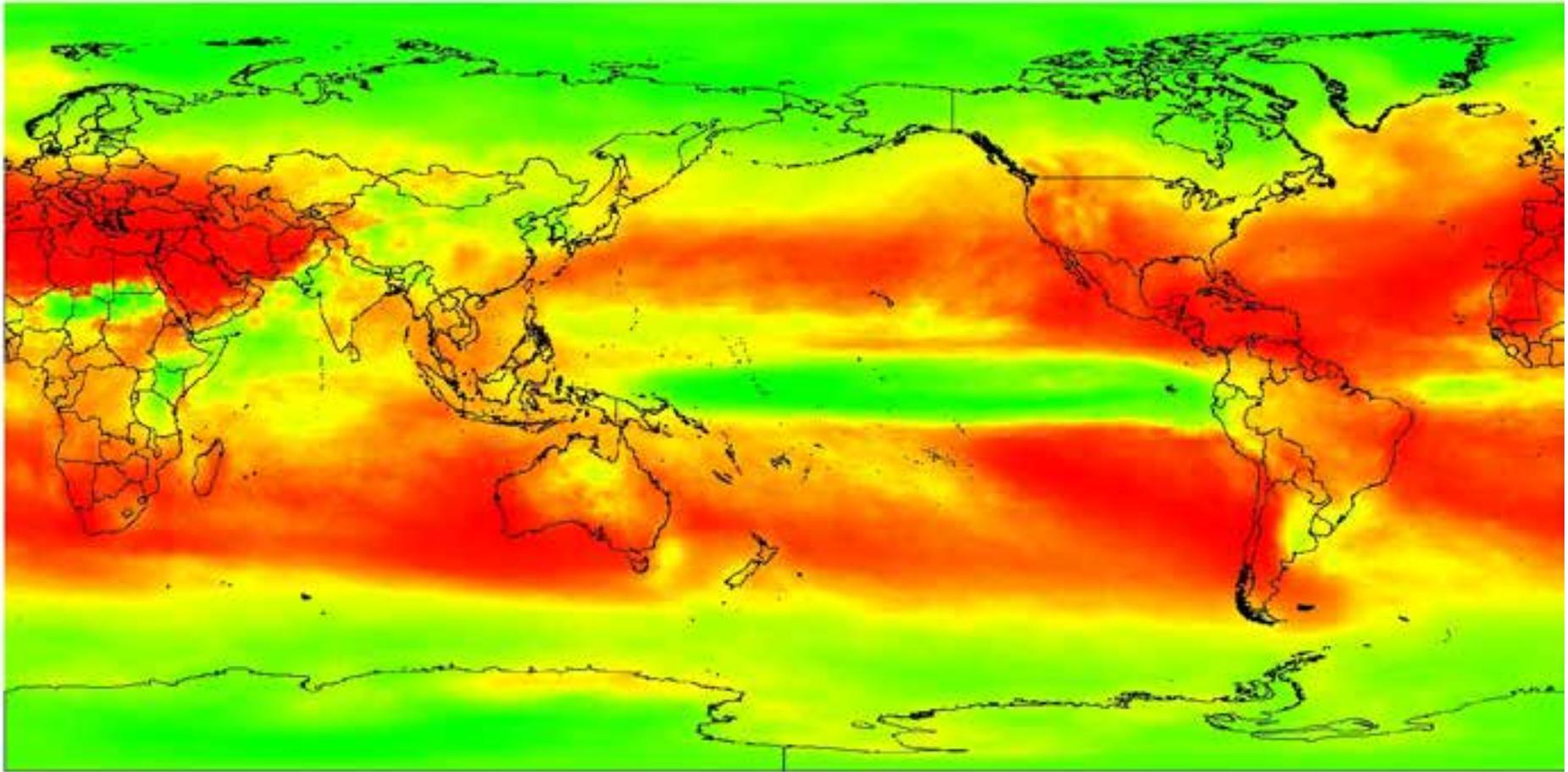
PRECIPITATION

- AR4 (21 models) vs. AR5 (38 models)
- annual precipitation (mm/yr)
- relative change (%mm/ $\Delta^{\circ}\text{C}$)

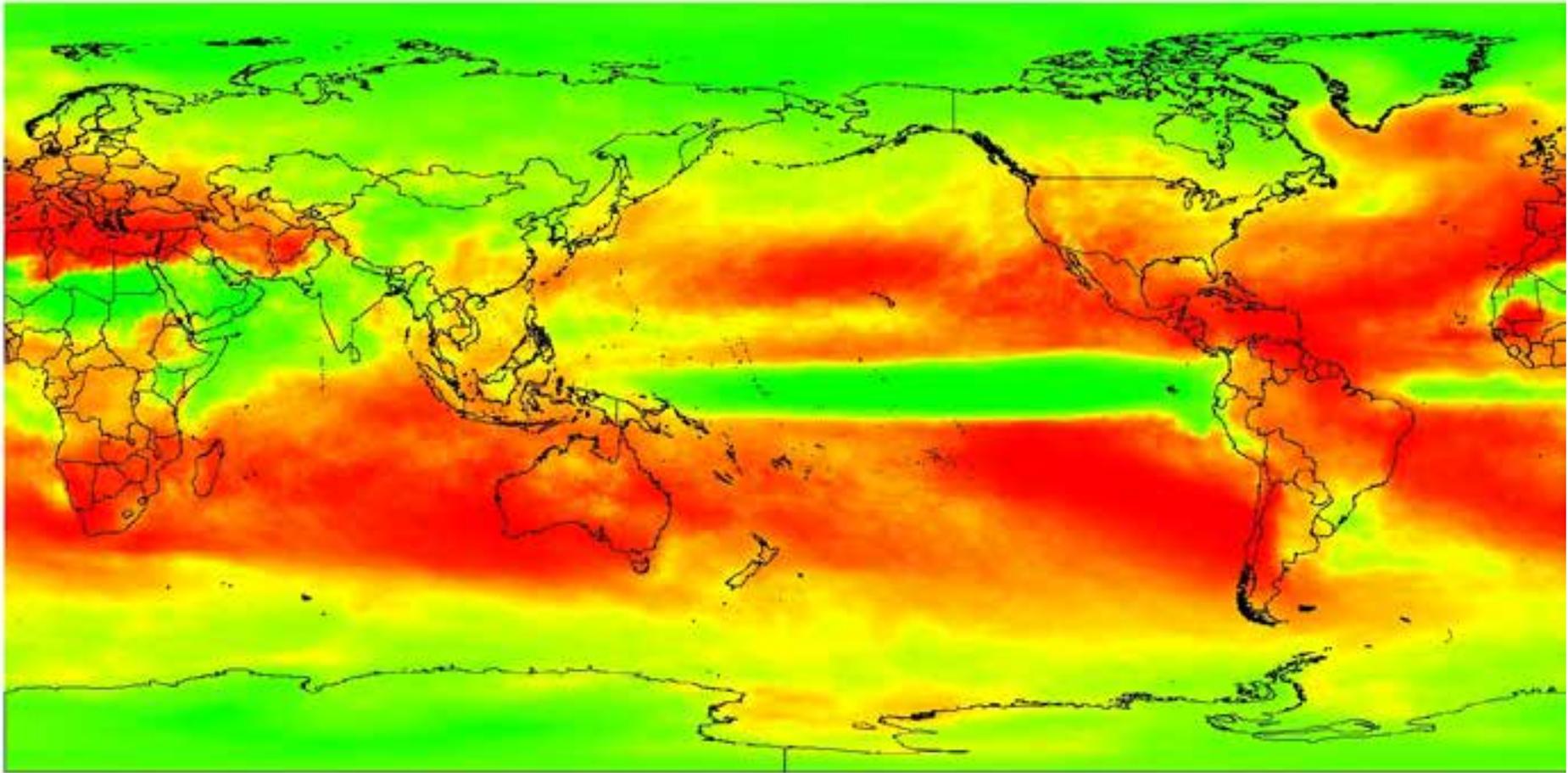
Baseline (1990) annual total (mm)



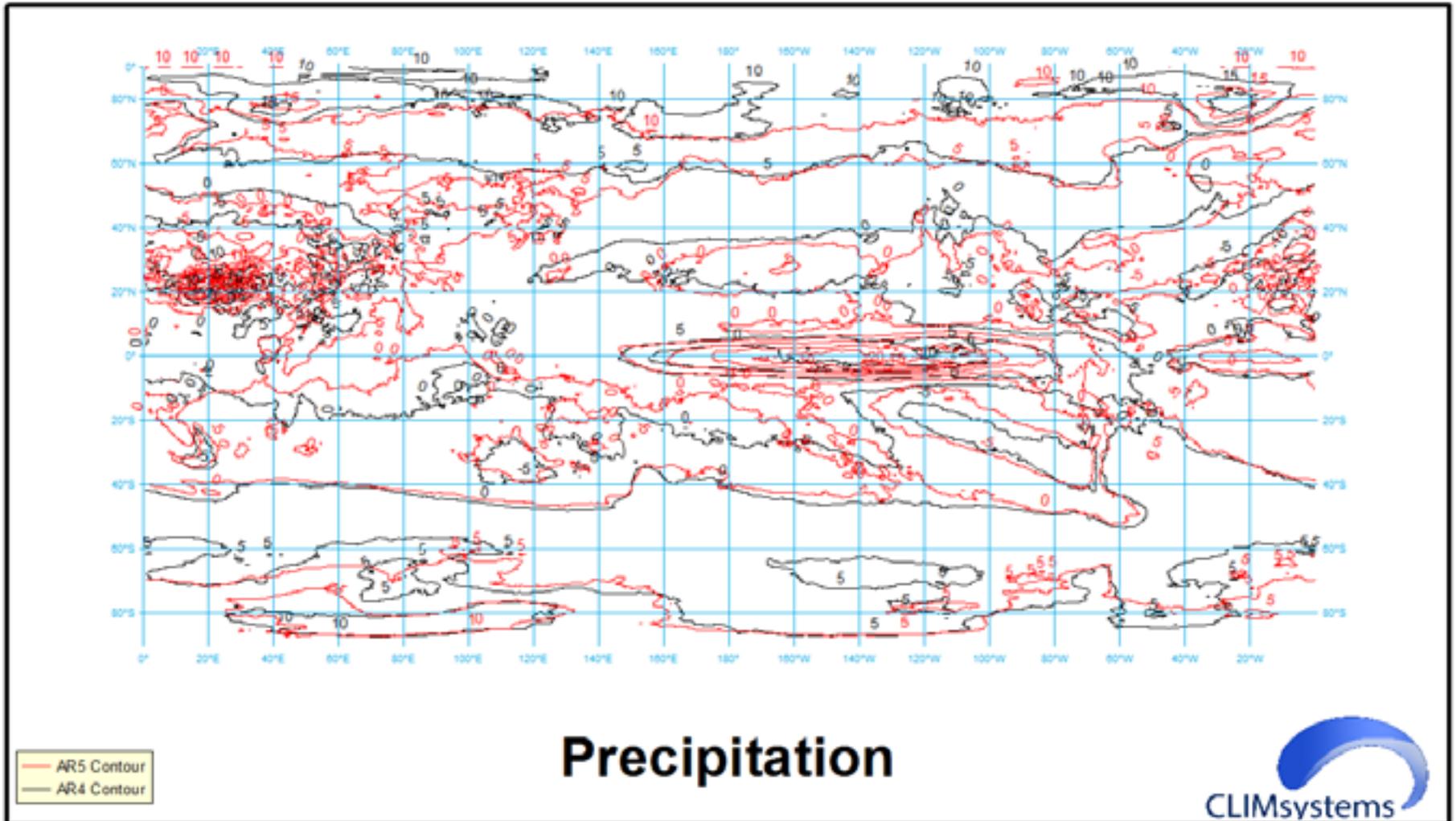
AR4 %mm/ $\Delta^{\circ}\text{C}$



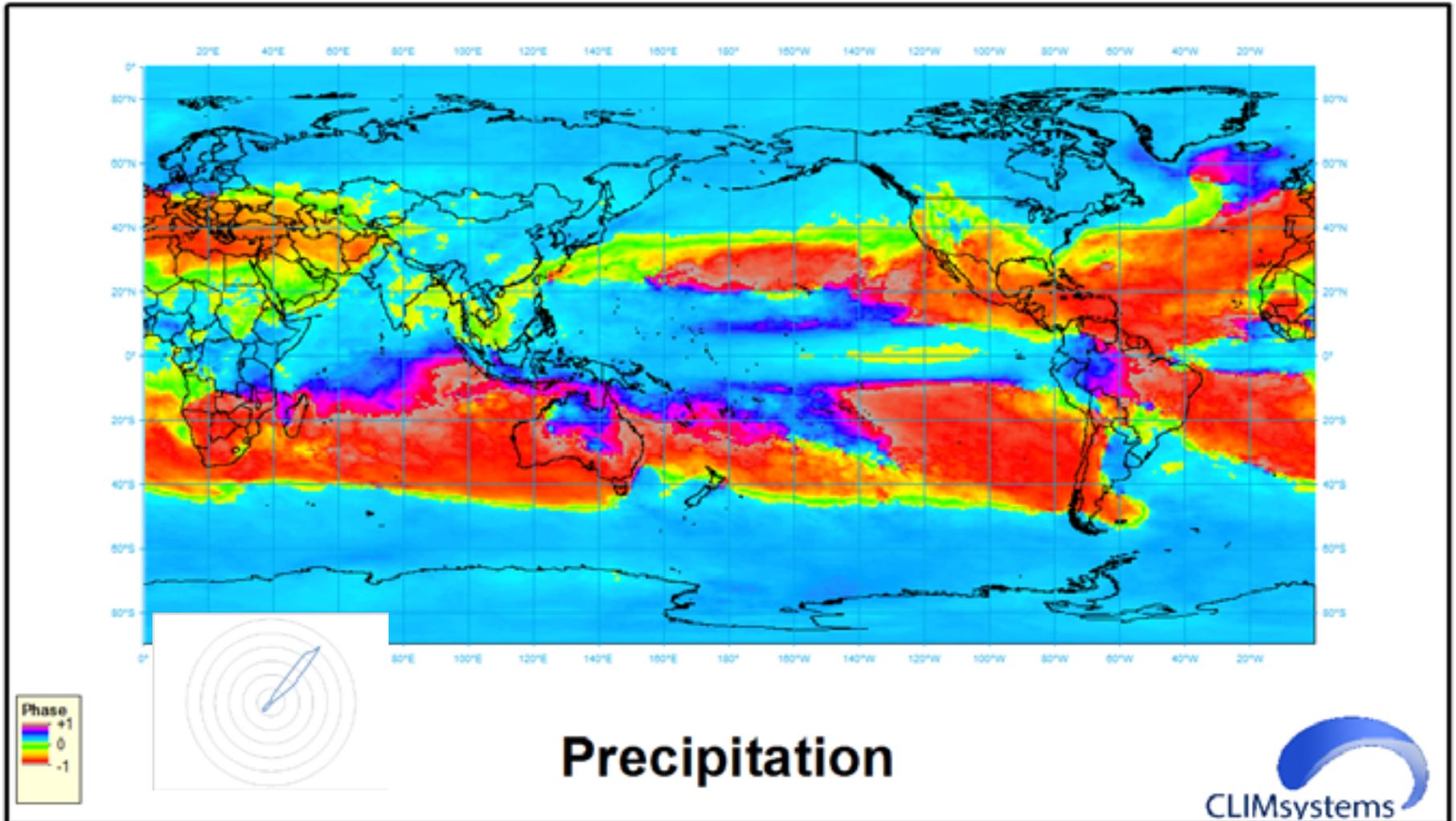
AR5 %mm/ $\Delta^{\circ}\text{C}$



AR4 vs AR5



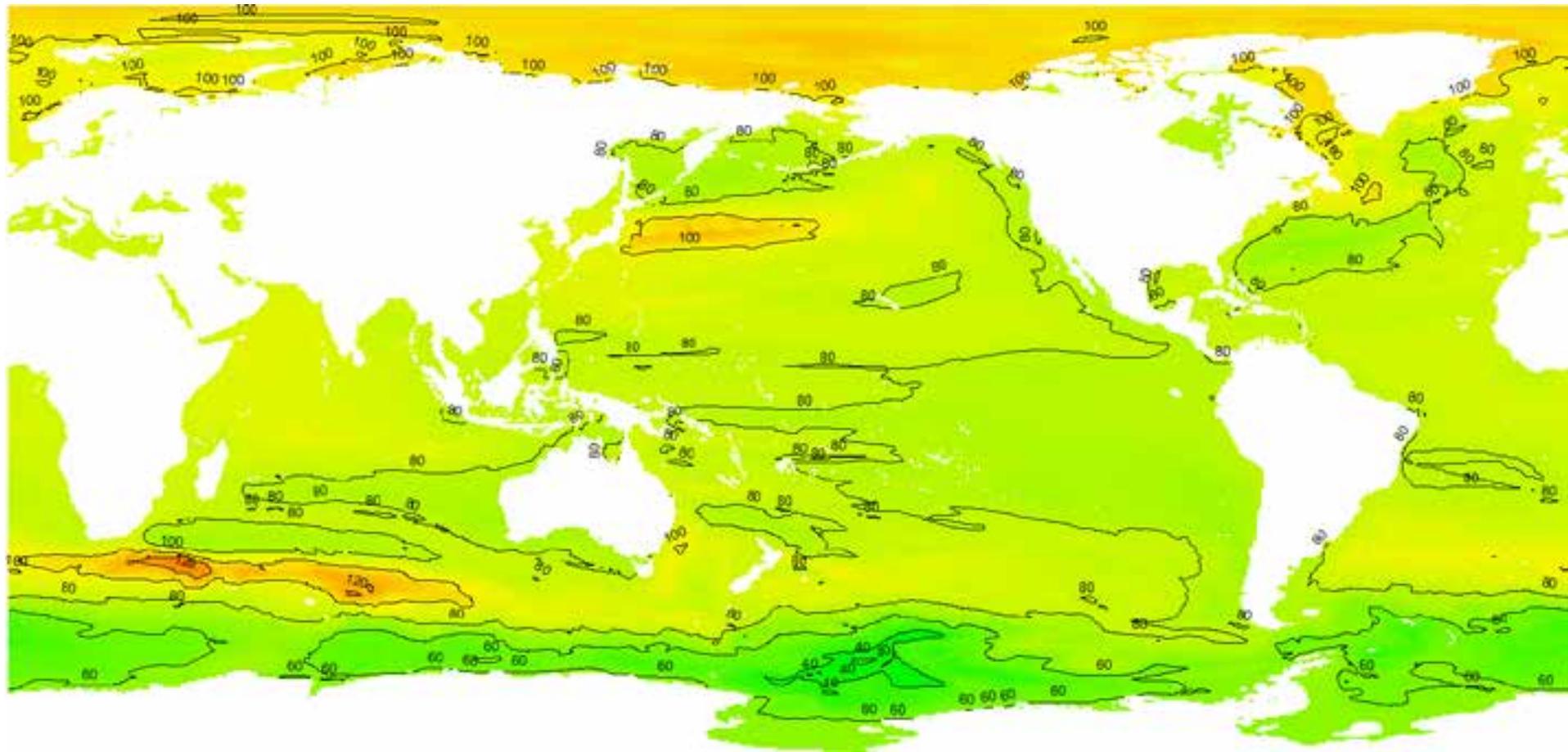
AR4 vs AR5



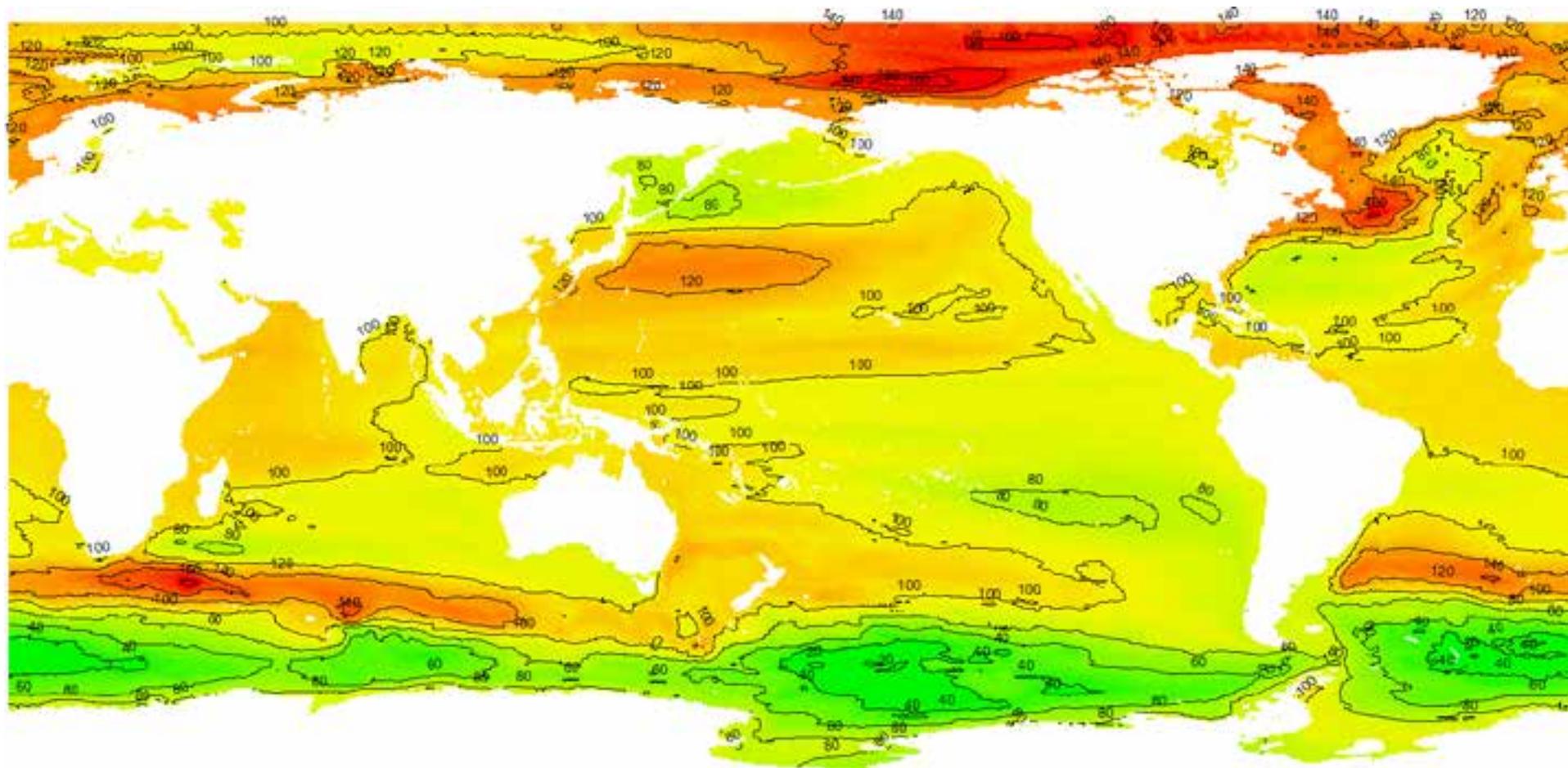
SEA LEVEL RISE

- AR4 (13 models) vs. AR5 (24 models)
- sea level rise over 1990-2100 (cm)
- most extreme scenario (AR4: A1FI-high, AR5: RCP8.5-high)

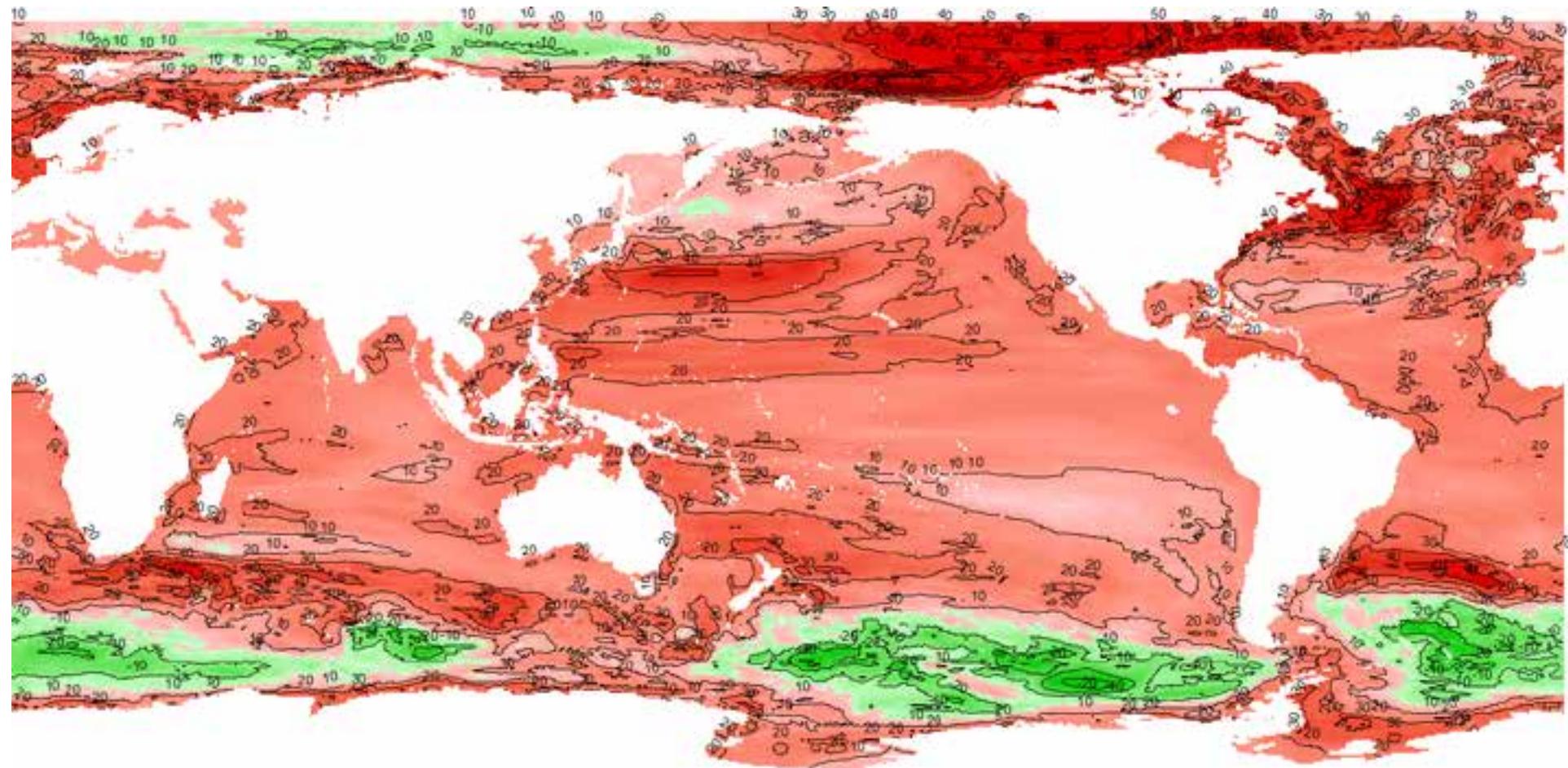
AR4 SLR 2100 (A1FI-high)



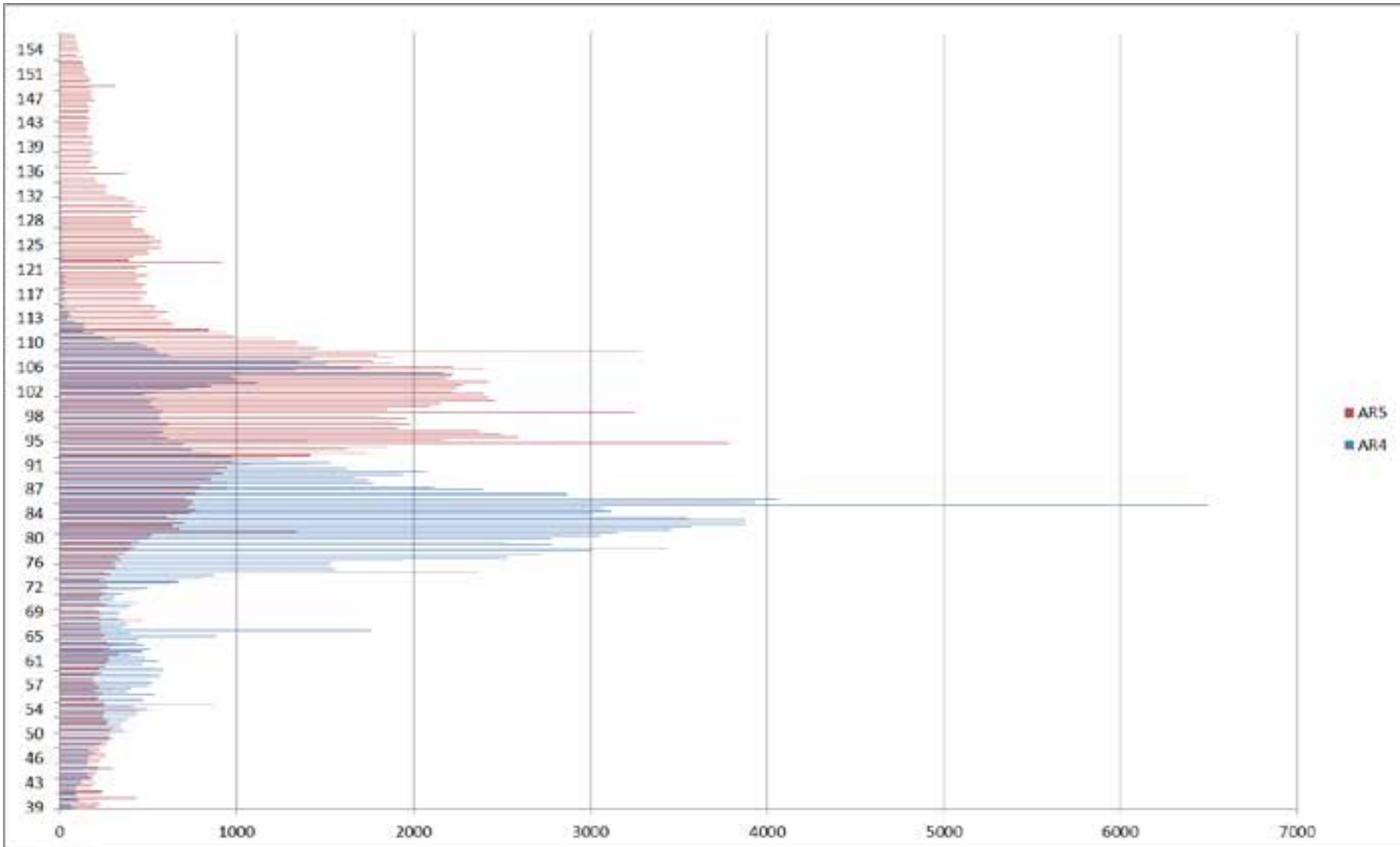
AR5 SLR 2100 (RCP8.5-high)



SLR 2100: AR4 vs AR5



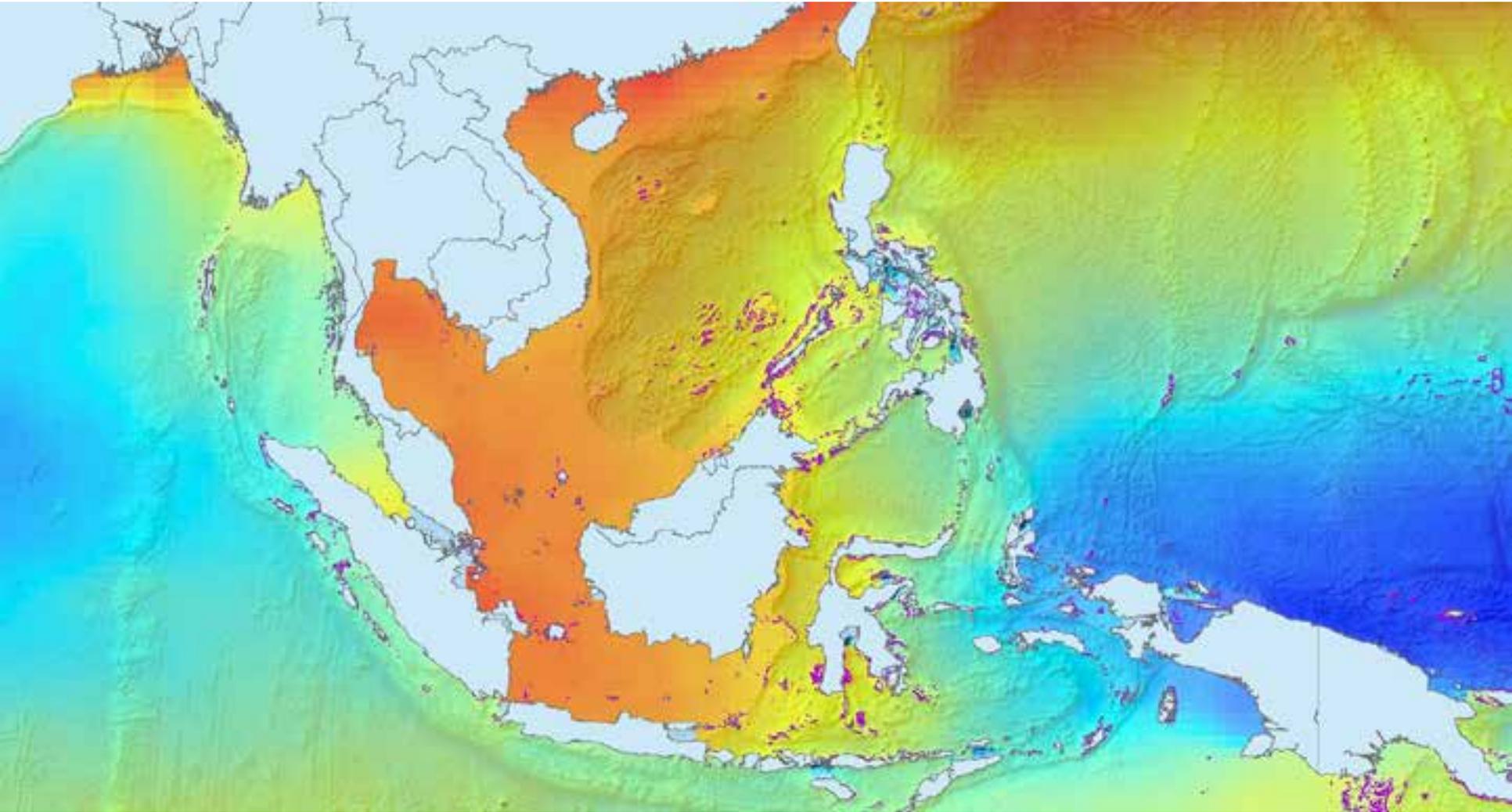
SLR distribution (2100)



new AR5 outputs

- targeted at oceans
- 13 GCMs
- selected variables (pH, alkalinity, primary production, nitrogen, oxygen, phosphate, iron, silicate)

change in pH



Logo's

