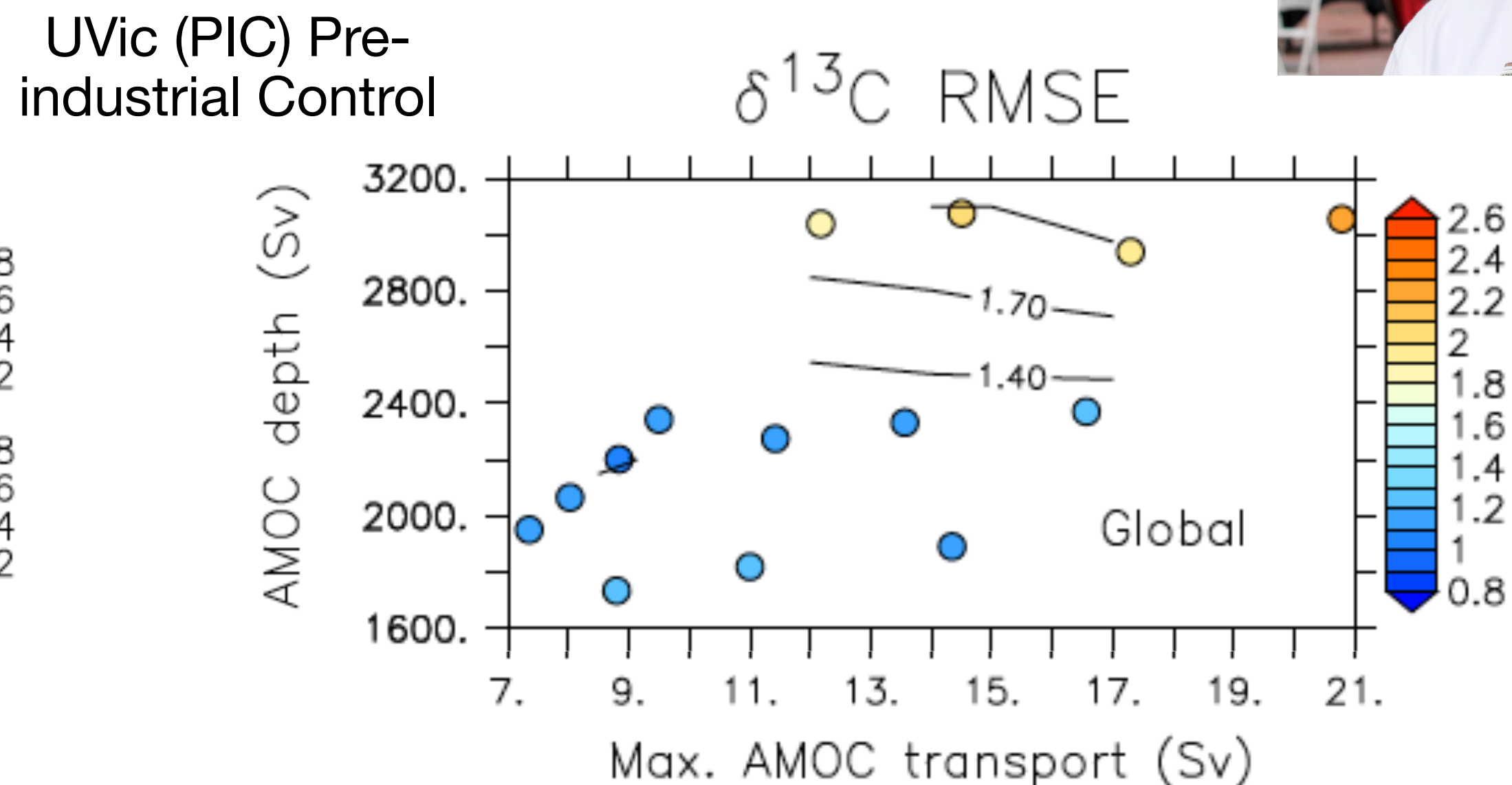
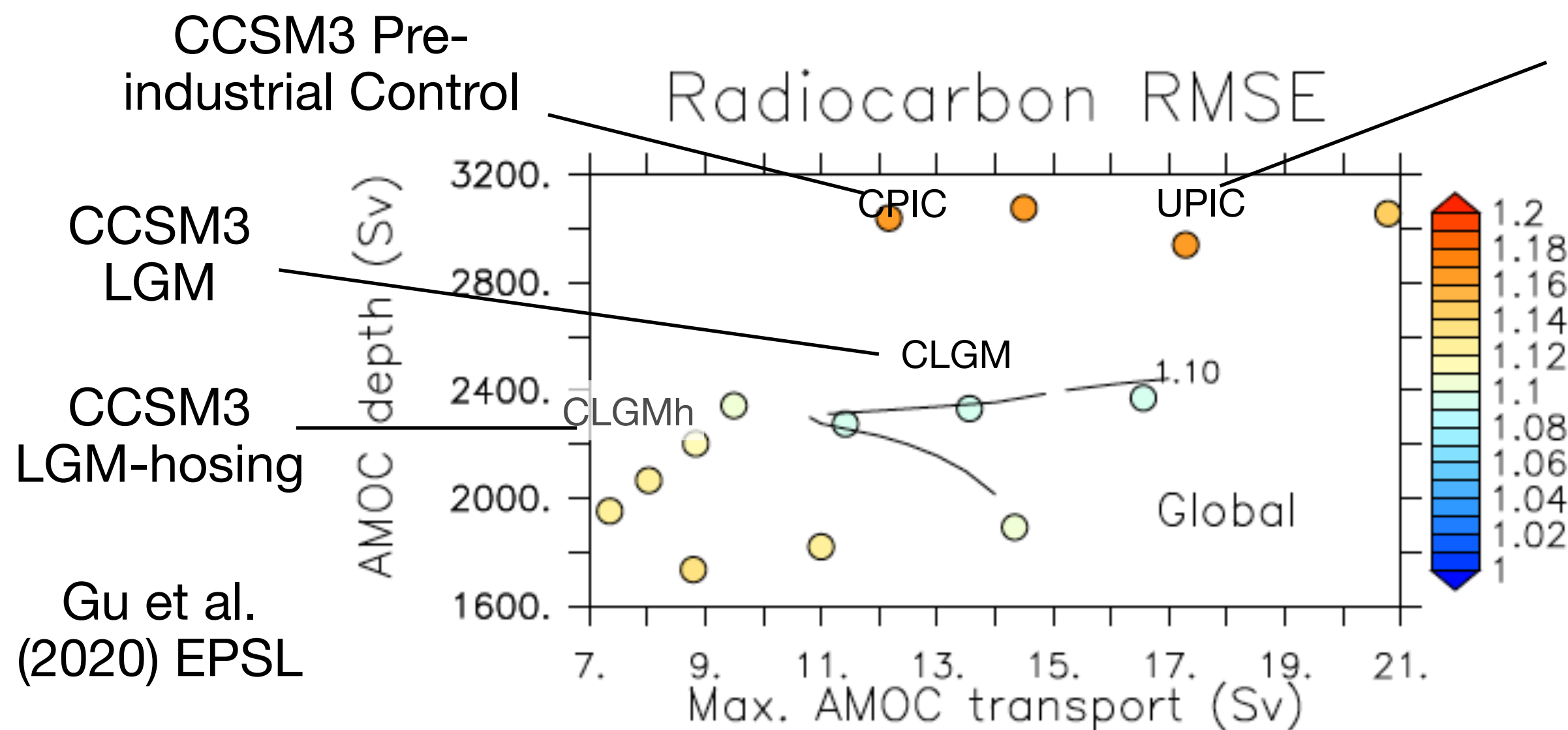


# Last Glacial Maximum AMOC: Strength vs Depth

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Conclusion: Carbon isotopes are sensitive to AMOC depth not strength

# Effects of AMOC Strength vs Depth on Isotope Distributions

- AMOC **strengthening** has much less of an effect on both isotopes than AMOC **deepening**.
- Generally,  $\delta^{13}\text{C}$  and radiocarbon response is anti-correlated. (Not a lot of independent information.)
- **Deepening** affects northern North Atlantic deep waters most.
- **Strengthening** doesn't affect North Atlantic, but maybe better constrained by South Atlantic data.
- **Deepening** decreases Southern Ocean surface reservoir ages, which propagate into the interior decreasing the whole ocean radiocarbon age

