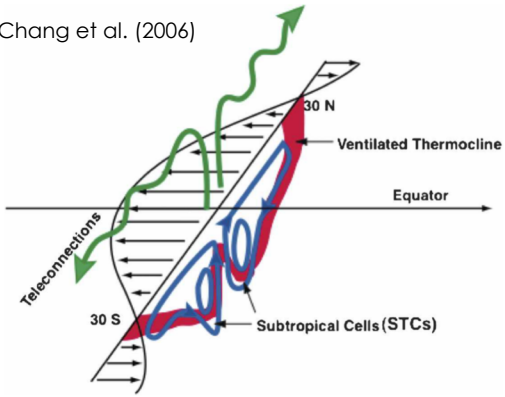


1 Subtropical Cells (STCs):

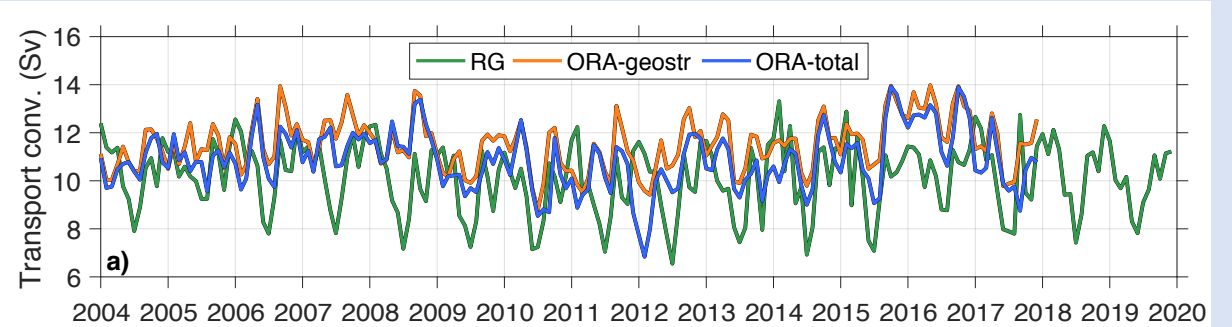
Shallow overturning circulations ventilating the tropical thermocline

Chang et al. (2006)



2

Seasonal variability dominates, but ...



Observed transport variability of the Atlantic Subtropical Cells and their connection to tropical SST variability

Franz Philip Tuchen (ftuchen@geomar.de), JF Lübbecke, P Brandt, Y Fu (JGR: Oceans, 2020)

... low-frequent variability is also important ...



3

STC variability modulates tropical SST variability

- ... on time scales longer than 5 years
- ... through variability of the interior transport convergence

