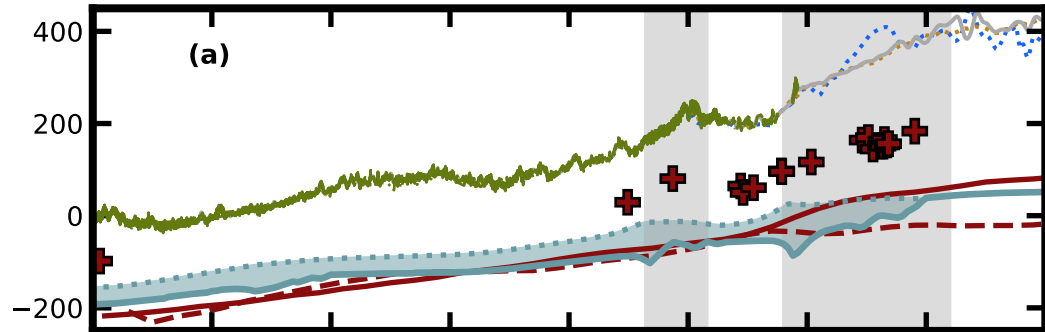


$\Delta^{14}\text{C}$  (‰)

(a)



observations

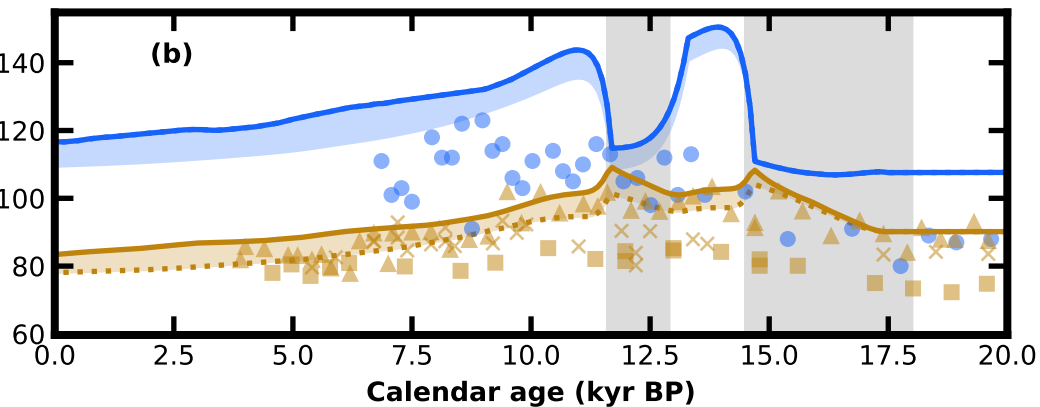
- IntCal20 (Reimer et al. 2020)
- IntCal20 tree-ring (Reimer et al. 2020)
- IntCal13 (Reimer et al. 2013)
- IntCal09 (Reimer et al. 2009)
- Galápagos (Chen et al., 2020)

model

- Deep Pacific (Rafter et al., 2019)
- Mid-depth Pacific (Rafter et al., 2022)
- Intermediate North Pacific Control
- Intermediate North Pacific NP+LC+PF+RC

Deep Ocean [ $\text{CO}_3^{2-}$ ] $\text{CO}_3^{2-}$  ( $\mu\text{mol kg}^{-1}$ )

(b)

N. Atlantic, 4 km  
BOFS 8K  
(Yu et al., 2008)Indian, 4.1 km  
WIND 28K  
(Yu et al., 2010)Central Eq. Pacific, 4.3 km  
YTTNO13 PC61  
(Yu et al., 2013)West Eq. Pacific, 3.4 km  
GGC48  
(Yu et al., 2010)Deep Atlantic  
NP+LC+PF+RCDeep Atlantic  
ControlDeep Indo-Pacific  
NP+LC+PF+RCDeep Indo-Pacific  
Control