

Table 2. Errors associated with model-predicted physical and chemical parameters involved in calculating pCO₂ and resulting pCO₂ precision

parameter	approx. model error	calculated pCO ₂ precision†
Temperature	±1 °C	±15 μatm
Salinity	±0.4	±3 μatm
Alkalinity	±20 μmole/kg	±25 μatm
DIC	±20 μmole/kg	±30 μatm

†calculated at 1 meter depth, 24 °C, 36.6 salinity, 2387 μmole/kg alkalinity, and 2040 μmole/kg DIC