

CO₂ Exchange

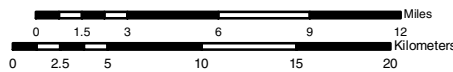
(n.mol.m⁻².s⁻¹)

- Less than -400
- -400 - -200
- -200 - 0
- 0 - 200
- 200 - 400
- Greater than 400

Negative values indicate transfer of CO₂ from air to sea. Positive values indicate transfer of CO₂ from sea to air.

Bottom Types

- Bank Top Suite
- Dense Seagrass
- Hard Bottom
- Intermediate Seagrass
- Land
- Mixed Bottom Suite
- Open Mud
- Open Sand
- Sparse Seagrass
- Unsurveyed Area

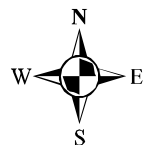


Air:Sea Carbon Dioxide Exchange

Florida Bay - August 2001

By

Kimberly Yates and Robert Halley



Map Location

Air-sea exchanges were measured using a direct chamber method with a LiCor 6252 Infrared CO₂ gas analyzer. Carbon dioxide exchange rates reflect the linear slope with the best Pearson product moment correlation coefficient (r^2) calculated from a curve of approximately 900 data points. Bottom types map generated by Ellen Prager and Robert Halley of the U.S. Geological Survey. Data collected by Chris Dufore and Nancy Dewitt of the U.S. Geological Survey. Map created by Roney Rodriguez, modified by Iuri Herzfeld of the U.S. Geological Survey. Map has not been reviewed for conformity with U.S. Geological Survey editorial standards.