

Readme file for pCO₂ in marine air and in surface seawater during the MR16-09 cruise

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File name: MR16-09leg1_air, MR16-09leg1_sea, MR16-09leg2_air,
MR16-09leg2_sea, MR16-09leg3_air, MR16-09leg3_sea, MR16-09leg4_air, and
MR16-09leg4_sea

For the MR16-09leg#_air file,

Columns:

- 1) Year, Month, Day (UTC)
- 2) Hour, Minutes, Seconds (UTC)
- 3) Latitude (decimal)
- 4) Longitude (decimal)
- 5) Sea surface temperature (°C)
- 6) Sea surface salinity
- 7) Air pressure (hPa)
- 8) Wind direction (degree)
- 9) Wind speed (m s⁻¹)
- 10) xCO₂ in dry air (ppmv)

For the MR16-09leg#_sea file,

Columns:

- 1) Year, Month, Day (UTC)
- 2) Hour, Minutes, Seconds (UTC)
- 3) Latitude (decimal)
- 4) Longitude (decimal)
- 5) Sea surface temperature
- 6) Sea surface salinity
- 7) Equilibrator temperature (°C)
- 8) Equilibrator pressure (hPa)

- 9) Air Pressure (hPa)
- 10) $x\text{CO}_2$ in equilibrator (ppmv)
- 11) $p\text{CO}_2$ in equilibrator (uatm)
- 12) $p\text{CO}_2$ at SST (uatm)
- 13) $x\text{CO}_2$ in dry air (ppmv)