

**Ozone data from the TexAQS 2006, STRATUS 2006, GOMECC 2007, GasEx 2008,
and AMMA 2008 cruises**
08/15/2018 – Ludovic Bariteau

This document is the readme for *VdO3_synthesis.txt* that contains 10 min ozone deposition velocity results from the TexAQS 2006, STRATUS 2006, GOMECC 2007, GasEx 2008, and AMMA 2008 cruises. For more information on the cruises, refer to Helmig et al. [2012].

The file contains 8 columns formatted as follow :

1 : Year

2 : Decimal Yearday (UTC)

3 : Latitude (deg)

4 : Longitude (deg)

5 : Near surface sea temperature (C) from Sea snake at 0.05m depth

6 : Wind speed (m/s) at 18.5m height.

7 : Ozone deposition velocity (cm/s)

8 : Ozone concentration (ppbv)

Notes :

* NaN indicates that the data didn't meet the quality criteria in place. Data filtering, quality control, and the protocol for the ozone flux calculation are detailed by Bariteau et al. [2010].

* Ocean water chlorophyll data for Gulf of Mexico and East Coast Carbon Cruise (GOMECC) can be retrieved from the cruise data archive (available at <http://www.aoml.noaa.gov/ocd/gcc/GOMECC1/data.php>).

References :

Bariteau, L., D. Helmig, C. W. Fairall, J. E. Hare, J. Hueber, and E. K. Lang (2010), Determination of oceanic ozone deposition by ship-borne eddy covariance flux measurements, *Atmos. Meas. Tech.*, 3, 441–455, doi:10.5194/amt-3-441-2010.

Helmig, D., E. K. Lang, L. Bariteau, P. Boylan, C. W. Fairall, L. Ganzeveld, J. E. Hare, J. Hueber, and M. Pallandt (2012b), Atmosphere - ocean ozone fluxes during the TEXAQS 2006, STRATUS 2006, GOMECC 2007, GASEX 2008, and AMMA 2008 cruises, *J. Geophys. Res.*, 117, D04305, doi:10.1029/2011JD015955.