CALIBRATION OF CO2-006
Relative vs. NOAA-1 /NOAA-2 on 10.7.2013 20:54

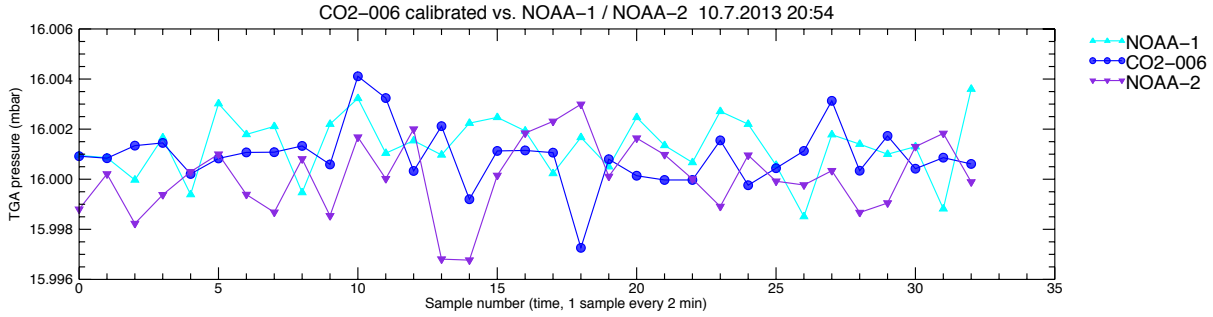
SUMMARY

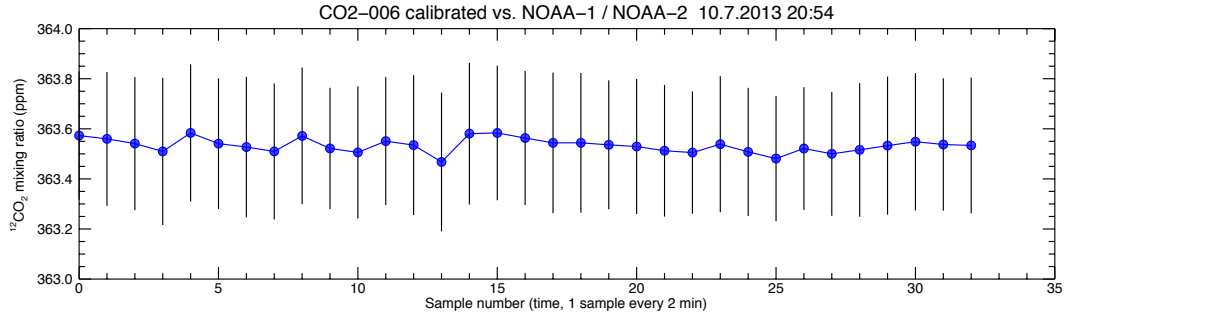
CO2_ppm	=	369.264 (+- 0.028,	n= 33)
d13C	=	-33.648 (+- 0.064,	n= 33)
d18O	=	-8.822 (+- 0.239,	n= 33)

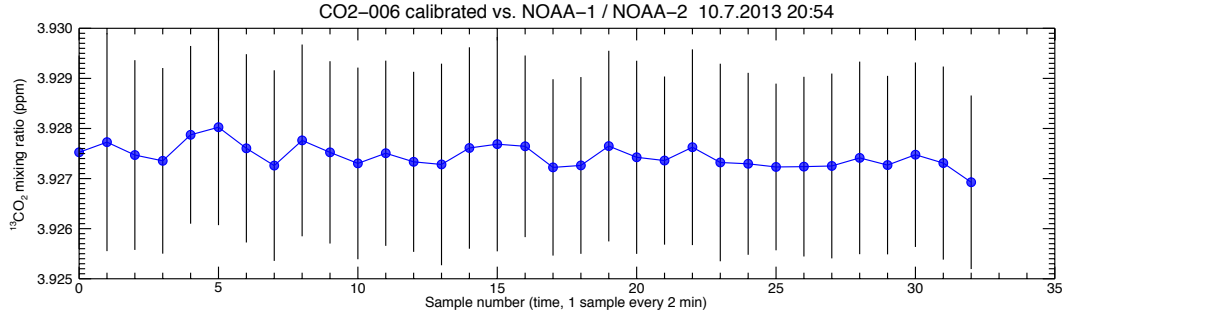
DETAILS OF CALIBRATION

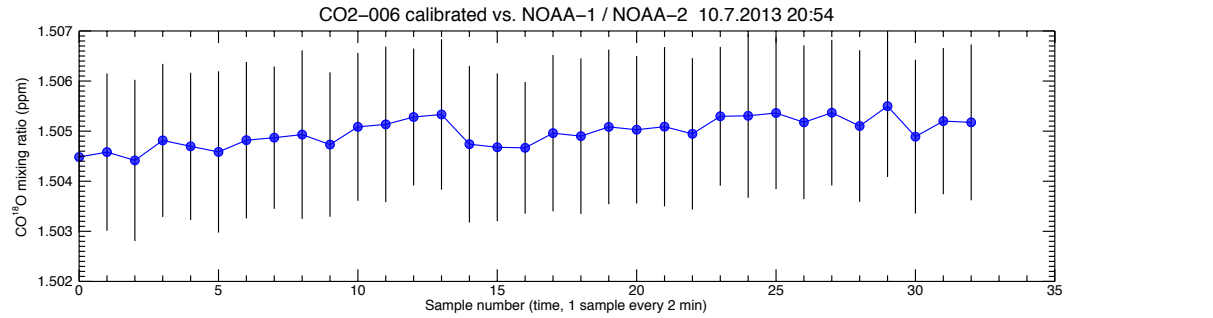
Raw Measured 12CO2 CO2-006	=	335.4346 (+- 0.02564) ppm
Raw Measured 13CO2 CO2-006	=	3.6483 (+- 0.00021) ppm
Raw Measured 18O CO2-006	=	1.4428 (+- 0.00026) ppm
Raw Measured T_CO2 CO2-006	=	340.8010 (+- 0.02562) ppm
Raw Measured 12CO2 NOAA-1	=	361.2889 (+- 0.03901) ppm
Raw Measured 13CO2 NOAA-1	=	4.0289 (+- 0.00048) ppm
Raw Measured 18O NOAA-1	=	1.5602 (+- 0.00020) ppm
Raw Measured T_CO2 NOAA-1	=	367.1745 (+- 0.03932) ppm
Raw Measured 12CO2 NOAA-2	=	423.4820 (+- 0.03758) ppm
Raw Measured 13CO2 NOAA-2	=	4.7065 (+- 0.00037) ppm
Raw Measured 18O NOAA-2	=	1.8207 (+- 0.00018) ppm
Raw Measured T_CO2 NOAA-2	=	430.3568 (+- 0.03774) ppm
Ext Standard T_CO2 NOAA-1	=	398.231 (+- 398.231) ppm
Ext Standard d13C NOAA-1	=	-8.899 (+- 0.003) per mil
Ext Standard d18O NOAA-1	=	-4.227 (+- 0.003) per mil
Ext Standard T_CO2 NOAA-2	=	467.628 (+- 467.628) ppm
Ext Standard d13C NOAA-2	=	-12.312 (+- 0.006) per mil
Ext Standard d18O NOAA-2	=	-7.636 (+- 0.006) per mil
RMSE for 12CO2 linear fit	=	0.041435 ppm
RMSE for 13CO2 linear fit	=	0.000457 ppm
RMSE for 18O linear fit	=	0.000200 ppm
Slope for 12CO2 linear fit	=	1.0986 ppm / ppm
Slope for 13CO2 linear fit	=	1.0913 ppm / ppm
Slope for 18O linear fit	=	1.0655 ppm / ppm
Offs. for 12CO2 linear fit	=	-4.965975 ppm
Offs. for 13CO2 linear fit	=	-0.054104 ppm
Offs. for 18O linear fit	=	-0.032268 ppm

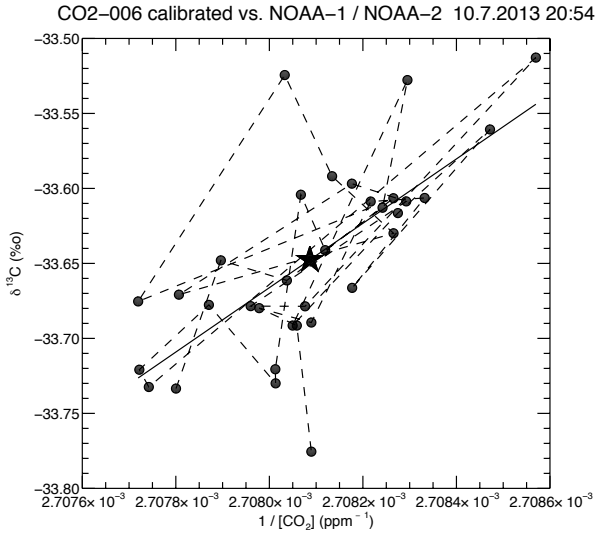
Output created on Tue Oct 8 11:57:18 2013

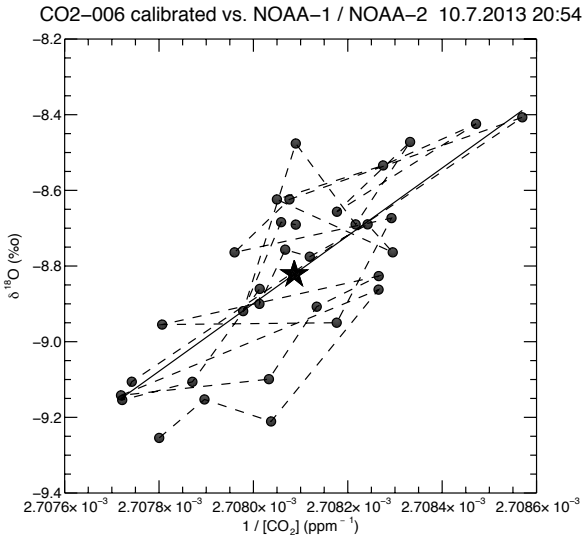

CO2−006 calibrated vs. NOAA−1 / NOAA−2 10.7.2013 20:54
TGA pressure (mbar)
Sample number (time, 1 sample every 2 min)
NOAA−1
CO2−006
NOAA−2

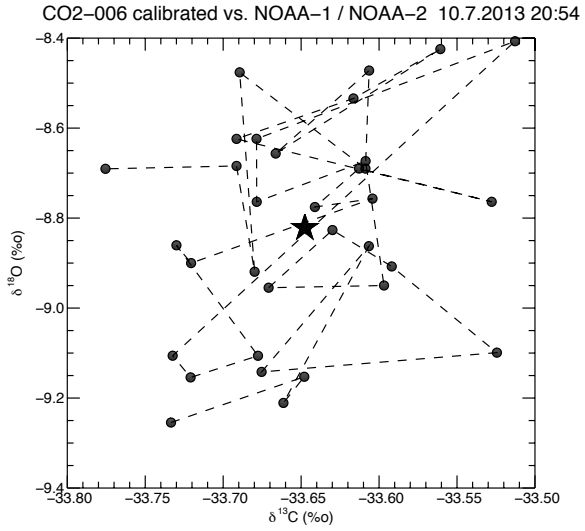

CO2−006 calibrated vs. NOAA−1 / NOAA−2 10.7.2013 20:54
$^{12}CO_2$ mixing ratio (ppm)
Sample number (time, 1 sample every 2 min)


CO2−006 calibrated vs. NOAA−1 / NOAA−2 10.7.2013 20:54
$^{13}CO_2$ mixing ratio (ppm)
Sample number (time, 1 sample every 2 min)


CO2−006 calibrated vs. NOAA−1 / NOAA−2 10.7.2013 20:54
$CO^{18}O$ mixing ratio (ppm)
Sample number (time, 1 sample every 2 min)


CO2−006 calibrated vs. NOAA−1 / NOAA−2 10.7.2013 20:54
δ 13C (‰)
1 / [CO2] (ppm −1)


CO2−006 calibrated vs. NOAA−1 / NOAA−2 10.7.2013 20:54
δ 18O (‰)
1 / [CO2] (ppm −1)


CO2−006 calibrated vs. NOAA−1 / NOAA−2 10.7.2013 20:54
δ 18O (‰)
δ 13C (‰)