

date	Air CO2	Ocean CO2	Ocean acidity	Ocean pH
10/31/1988	330.9	9.06	5.89	8.11
#####	330.6	9.2	5.89	8.11
#####	324.3	9.27	5.88	8.12
2/26/1989	310.9	9.15	5.87	8.13
3/27/1989	317.7	9.17	5.88	8.12
5/18/1989	326.2	9.5	5.88	8.12
6/24/1989	334.3	9.3	5.9	8.1
7/29/1989	340.4	9.55	5.9	8.1
8/24/1989	343.8	9.46	5.91	8.09
9/22/1989	337.8	9.26	5.9	8.1
10/18/1989	350.5	9.65	5.91	8.09
11/27/1989	329.7	9.3	5.89	8.11
#####	310.8	9.02	5.87	8.13
2/15/1990	317.2	9.24	5.88	8.12
3/19/1990	310.1	9.19	5.87	8.13
4/13/1990	320.2	9.44	5.88	8.12
#####	324.3	9.45	5.88	8.12
6/13/1990	318.9	9.1	5.88	8.12
7/25/1990	329.7	9.19	5.89	8.11
9/14/1990	353.6	9.67	5.92	8.09
12/18/1990	322.4	9.37	5.88	8.12
#####	317.4	9.38	5.87	8.13
#####	318	9.45	5.87	8.13
#####	319.2	9.41	5.88	8.12
#####	326.5	9.49	5.89	8.11
#####	327.3	9.36	5.89	8.11
#####	327.8	9.17	5.89	8.11
#####	339.7	9.39	5.9	8.1
9/18/1991	344.4	9.43	5.91	8.09
10/21/1991	338.6	9.2	5.9	8.1
#####	334.7	9.31	5.9	8.1
#####	324.1	9.36	5.88	8.12
2/15/1992	317.8	9.46	5.87	8.13
#####	321.9	9.39	5.88	8.12
4/17/1992	331.7	9.71	5.89	8.11
#####	325.5	9.06	5.88	8.12
#####	343	9.6	5.9	8.1
#####	342.4	9.44	5.9	8.1
9/23/1992	346.2	9.48	5.91	8.09
10/20/1992	351.6	9.57	5.91	8.09
11/24/1992	332.3	9.25	5.89	8.11
12/16/1992	324	9.22	5.88	8.12
1/20/1993	309.6	9.19	5.87	8.13
2/17/1993	310.8	9.11	5.87	8.13
4/15/1993	333.7	9.81	5.89	8.11
5/21/1993	331	9.64	5.89	8.11
9/15/1993	360.2	9.82	5.92	8.08
10/30/1993	345.4	9.59	5.91	8.09
1/20/1994	298.3	8.94	5.85	8.15

2/17/1994	309.5	9.28	5.86	8.14
#####	323.4	9.5	5.88	8.12
6/19/1994	336.7	9.57	5.9	8.1
7/25/1994	351.4	9.81	5.91	8.09
8/30/1994	348.4	9.55	5.91	8.09
9/23/1994	349.2	9.54	5.91	8.09
10/15/1994	349.7	9.62	5.91	8.09
11/19/1994	335.1	9.44	5.9	8.1
#####	326.9	9.68	5.89	8.11
#####	323.6	9.64	5.88	8.12
#####	333.9	9.76	5.9	8.1
#####	325.1	9.62	5.89	8.11
7/30/1995	344.7	9.6	5.91	8.09
8/29/1995	345.1	9.54	5.91	8.09
9/26/1995	349	9.45	5.91	8.09
10/27/1995	339.5	9.36	5.9	8.1
11/17/1995	326.7	9.1	5.89	8.11
1/17/1996	331.8	9.45	5.89	8.11
3/27/1996	328.5	9.75	5.89	8.11
4/24/1996	332.8	9.64	5.89	8.11
5/22/1996	344.3	9.71	5.91	8.09
6/26/1996	344.8	9.47	5.91	8.09
7/27/1996	346.8	9.53	5.91	8.09
8/21/1996	352.7	9.52	5.92	8.08
#####	352.7	9.44	5.92	8.08
10/30/1996	345.8	9.42	5.91	8.09
#####	337.8	9.75	5.9	8.1
#####	330.4	9.72	5.89	8.11
2/18/1997	353	10.28	5.91	8.09
#####	328	9.74	5.89	8.11
#####	326.2	9.61	5.88	8.12
#####	338.2	9.65	5.9	8.1
#####	333.3	9.38	5.89	8.11
#####	350	9.77	5.91	8.09
#####	351	9.71	5.91	8.09
9/25/1997	359.2	9.71	5.92	8.08
#####	333.2	9.55	5.89	8.11
#####	332.5	9.77	5.89	8.11
2/19/1998	330.1	9.86	5.89	8.11
3/18/1998	337.2	9.67	5.9	8.1
4/15/1998	335.4	9.9	5.89	8.11
5/13/1998	338.1	10.05	5.9	8.11
6/17/1998	348.7	10.06	5.91	8.09
7/15/1998	361.6	10.4	5.92	8.08
#####	358.5	10.06	5.92	8.08
9/28/1998	365.5	10.2	5.92	8.08
10/19/1998	359	9.97	5.92	8.08
#####	359.6	10.1	5.92	8.08
#####	347.8	10.15	5.91	8.09
1/13/1999	352.7	10.37	5.91	8.09

2/18/1999	344.5	10.22	5.9	8.1
3/17/1999	311.8	9.2	5.87	8.14
4/14/1999	323.7	9.72	5.88	8.12
#####	345	10.08	5.9	8.1
7/14/1999	345.9	9.78	5.91	8.09
8/13/1999	365.4	10.22	5.92	8.08
10/15/1999	368.5	10.23	5.93	8.07
#####	359.7	10.07	5.92	8.08
12/15/1999	359.5	10.39	5.92	8.08
#####	346.3	10.3	5.9	8.1
#####	347.6	10.22	5.91	8.09
3/29/2000	348.6	10.25	5.91	8.09
4/26/2000	346.5	10.1	5.91	8.09
5/25/2000	371.1	10.56	5.93	8.07
6/21/2000	358.4	10.03	5.92	8.08
7/26/2000	354.3	9.8	5.91	8.09
8/23/2000	359.1	9.91	5.92	8.08
10/18/2000	373.2	10.35	5.93	8.07
11/30/2000	346	9.81	5.91	8.1
12/20/2000	347.5	9.9	5.91	8.09
1/17/2001	348.1	10	5.91	8.09
2/14/2001	353.9	10.43	5.91	8.09
3/21/2001	350.8	10.26	5.91	8.09
4/18/2001	347.7	10.2	5.91	8.09
5/16/2001	347.7	10.14	5.91	8.09
6/14/2001	344.1	9.74	5.9	8.1
#####	353.8	9.77	5.91	8.09
#####	364.7	10.12	5.92	8.08
#####	372.1	10.21	5.93	8.07
10/23/2001	353.9	9.88	5.91	8.09
11/17/2001	358.5	10.08	5.92	8.08
12/14/2001	349.4	10.03	5.91	8.09
1/16/2002	347	10.14	5.9	8.1
2/21/2002	335.9	10	5.89	8.11
3/13/2002	336.8	10.05	5.89	8.11
5/21/2002	358.4	10.22	5.92	8.08
6/29/2002	367.1	10.22	5.93	8.07
8/28/2002	367.5	10.07	5.93	8.07
#####	352.6	9.64	5.91	8.09
#####	351.9	9.71	5.91	8.09
11/25/2002	352.6	9.88	5.91	8.09
12/19/2002	347.4	9.95	5.91	8.09
1/17/2003	340.6	9.95	5.9	8.1
2/26/2003	339.5	10.01	5.9	8.1
3/29/2003	341.8	10.02	5.9	8.1
4/24/2003	343.6	9.8	5.9	8.1
5/21/2003	349.5	9.87	5.91	8.09
6/20/2003	357.3	9.9	5.92	8.08
7/20/2003	363.6	10	5.92	8.08
8/21/2003	355.7	9.77	5.92	8.08

10/15/2003	351.8	9.53	5.91	8.09
#####	351.3	9.58	5.91	8.09
12/20/2003	330.2	9.54	5.89	8.11
1/22/2004	344.7	9.97	5.9	8.1
2/25/2004	332.9	9.54	5.89	8.11
3/20/2004	321.3	9.55	5.88	8.12
4/21/2004	341.8	9.93	5.9	8.1
5/19/2004	349.4	9.79	5.91	8.09
6/16/2004	352.5	9.81	5.91	8.09
7/13/2004	365.6	9.99	5.93	8.07
8/16/2004	366.1	9.89	5.93	8.07
9/29/2004	366	9.77	5.93	8.07
10/31/2004	356.9	9.83	5.92	8.08
11/28/2004	347.6	9.51	5.91	8.09
12/21/2004	341.1	9.6	5.9	8.1
#####	343.5	9.96	5.9	8.1
#####	334.9	9.73	5.89	8.11
5/18/2005	350.2	9.88	5.91	8.09
6/15/2005	361	10.17	5.92	8.08
7/17/2005	373.7	10.34	5.93	8.07
8/14/2005	365	10	5.92	8.08
#####	380	10.3	5.94	8.06
#####	362.5	9.94	5.92	8.08
#####	356.3	10.01	5.92	8.08
12/13/2005	352.2	9.97	5.91	8.09
1/25/2006	330.3	9.69	5.89	8.11
2/15/2006	347.5	10.3	5.9	8.1
#####	335.4	9.93	5.89	8.11
#####	334.9	9.85	5.9	8.1
5/27/2006	352.4	10.35	5.91	8.09
6/14/2006	373.5	10.37	5.94	8.06
7/13/2006	359.2	10.09	5.92	8.08
#####	365.6	10.02	5.93	8.07
9/16/2006	363.3	9.9	5.92	8.08
10/21/2006	372.2	10.22	5.93	8.07
#####	362.6	10.02	5.92	8.08
#####	350.1	9.92	5.91	8.09
#####	338	9.86	5.9	8.1
3/21/2007	345.1	10.16	5.9	8.1
#####	358.9	10.26	5.92	8.08
#####	377.1	10.5	5.94	8.06
#####	373.8	10.21	5.93	8.07
#####	378.6	10.31	5.94	8.06
#####	376.4	10.36	5.94	8.06
#####	372.1	10.51	5.93	8.07
12/21/2007	355.5	10.19	5.91	8.09
1/30/2008	347.4	10.32	5.9	8.1
2/24/2008	347.4	10.2	5.9	8.1
5/28/2008	371.1	10.47	5.93	8.07
6/26/2008	367	10.25	5.93	8.07

7/27/2008	376.9	10.44	5.94	8.06
8/17/2008	366.7	10.12	5.93	8.07
#####	361	9.88	5.92	8.08
#####	360.5	10.21	5.92	8.08
1/21/2009	344.1	10.13	5.9	8.1
2/18/2009	337	10.05	5.89	8.11
4/29/2009	354.6	10.58	5.91	8.09
5/28/2009	374.7	10.73	5.93	8.07
#####	375.3	10.49	5.93	8.07
7/25/2009	384.4	10.66	5.94	8.06
8/19/2009	381.3	10.48	5.94	8.06
9/25/2009	390.8	10.63	5.95	8.05
#####	375.7	10.31	5.93	8.07
#####	363.7	10.43	5.92	8.08
#####	347.4	10.23	5.9	8.1
#####	347.8	10.25	5.9	8.1
5/19/2010	359.9	10.36	5.92	8.08
#####	375.9	10.72	5.93	8.07
#####	373.1	10.35	5.93	8.07
#####	364.1	10.18	5.92	8.08
#####	373.2	10.38	5.93	8.07
#####	377	10.38	5.93	8.07
11/21/2010	370.4	10.45	5.93	8.07
1/29/2011	355.4	10.38	5.91	8.09
#####	351.2	10.1	5.91	8.09
#####	353.3	10.25	5.91	8.09
#####	362.9	10.46	5.92	8.08
7/20/2011	370.5	10.41	5.93	8.07
8/30/2011	369.2	10.21	5.93	8.07
9/27/2011	377	10.36	5.94	8.06
#####	373.3	10.34	5.93	8.07
11/29/2011	361.6	10.31	5.92	8.08
12/20/2011	362	10.5	5.92	8.08
1/19/2012	356.3	10.43	5.91	8.09
3/25/2012	353.5	10.5	5.91	8.09
#####	364.5	10.72	5.92	8.08
5/31/2012	370.4	10.68	5.93	8.07
6/27/2012	377.6	10.85	5.93	8.07
#####	387.1	10.94	5.94	8.06
8/18/2012	392.1	11	5.95	8.05
9/15/2012	394.6	11.02	5.95	8.05
#####	384.1	10.7	5.94	8.06
#####	374.7	10.63	5.93	8.07
2/13/2013	362.7	10.75	5.92	8.08
#####	361.4	10.82	5.92	8.08
#####	363.7	10.89	5.92	8.08
5/18/2013	384.5	10.9	5.94	8.06
6/26/2013	385.5	10.84	5.94	8.06
#####	394.5	10.61	5.95	8.05
#####	379.5	10.34	5.94	8.06

10/28/2013	386.4	10.53	5.94	8.06
11/27/2013	370.8	10.32	5.93	8.07
12/21/2013	361.6	10.22	5.92	8.08
1/16/2014	363.4	10.48	5.92	8.08
2/15/2014	356.5	10.49	5.91	8.09
#####	362.8	10.49	5.92	8.08
#####	358.7	10.57	5.91	8.09
#####	368.2	10.42	5.92	8.08
#####	383.2	10.65	5.94	8.06
9/15/2014	398.7	10.65	5.96	8.04
10/14/2014	388.6	10.32	5.95	8.05
11/22/2014	371.2	10.18	5.93	8.07
12/17/2014	369.1	10.52	5.93	8.07

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