

TABLE 1. Changes in the CO_2 system parameters and components for a given initial condition by apparent oxygen utilization (AOU) and by carbonate dissolution. A 0.10 mM AOU is 2.24 ml/liter AOU at STP. The concentrations for the CO_2 system components as well as ΣCO_2 and ΔCO_2 are expressed in mM

Initial condition	AOU (mM)				Carbonate dissolution (mM)	
	0.065	0.130	0.195	0.260	0.050	0.100
ΔCO_2	0	0.050	0.100	0.150	0.200	0.050
ΣCO_2	2.200	2.250	2.300	2.350	2.400	2.250
Carbonate alkalinity (meq/liter)	2.487	2.487	2.487	2.487	2.587	2.687
P_{CO_2} (ppm)	350	460	610	830	1,160	310
pH	8.200	8.106	8.001	7.884	7.753	8.264
$(\text{H}_2\text{CO}_3) + (\text{CO}_2)$	0.012	0.016	0.021	0.028	0.040	0.011
(HCO_3^-)	1.889	1.982	2.072	2.157	2.234	1.892
(CO_3^{2-})	0.299	0.253	0.208	0.165	0.126	0.348
						0.397