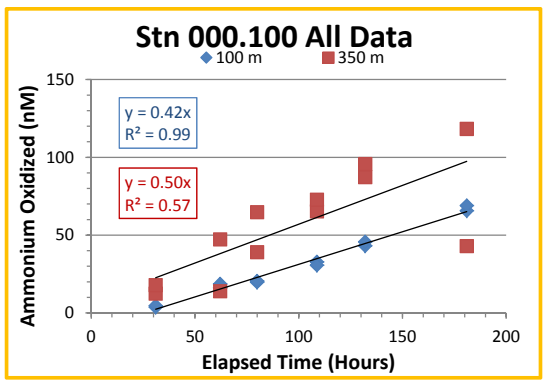
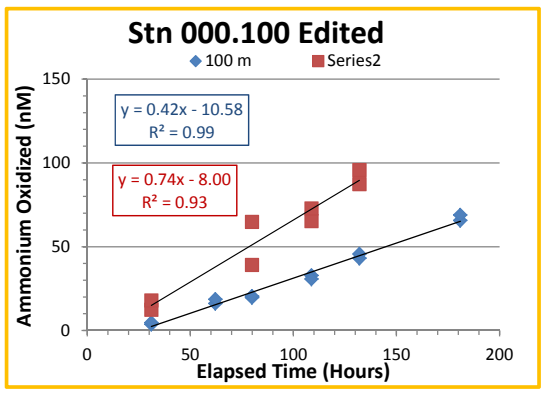
Supplementary Table 3. Ammonia oxidation time courses for selected samples from Antarctic coastal waters. Tables labeled "All Data" present all of the data from ammonia oxidation time courses. These data are plotted as a function of time since initiation of the incubation in the top plot of each pair. Linear regressions of the data and slopes and regression coefficients are shown on the plots. Variability between replicates was excessive at some time points (6 of the 24 pairs of analyses, primarily from the CDW samples). Data for which the difference between replicates was greater than 50 % of the mean value of the replicates ("BAD") have been excluded in the tables labeled "Edited." These data are also plotted as a function of time since initiation of the incubation in the lower plot of each pair and linear regressions of the data and regression coefficients are also shown on the plots. The slopes of these "edited" regressions were used to calculate the ammonia oxidation rate for each sample (table at far right).

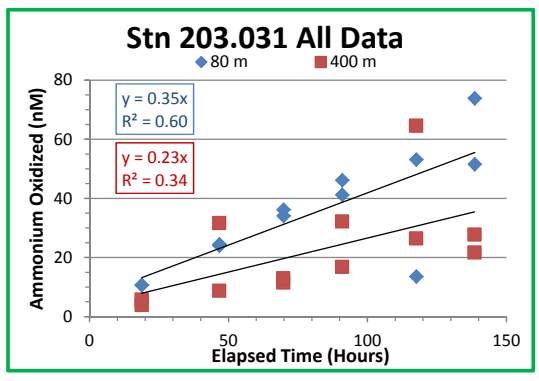
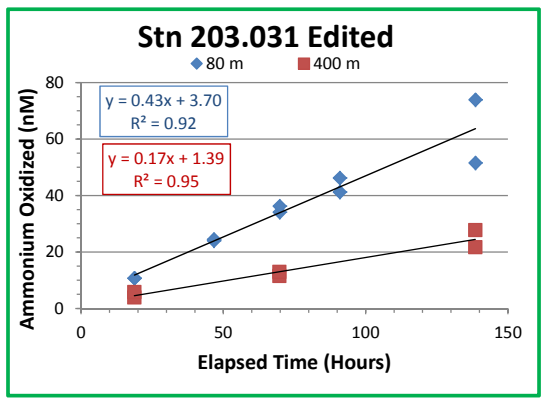
Stn 000.100 All Data		
Depth	Time	NH_4^+ Oxidized (nM)
100	31	3.8
100	31	4.7
100	62	16.2
100	62	18.7
100	80	19.8
100	80	20.5
100	109	32.9
100	109	30.7
100	132	43.2
100	132	45.7
100	181	65.7
100	181	69.0
350	31	12.5
350	31	18.0
350	62	14.0
350	62	47.4
350	80	39.1
350	80	64.8
350	109	65.4
350	109	72.9
350	132	87.4
350	132	95.8
350	181	43.1
350	181	118.4

Stn 000.100 Edited			
Depth	Time	NH_4^+ Oxidized (nM)	Replication Test
100	31	3.8	OK
100	31	4.7	
100	62	16.2	OK
100	62	18.7	
100	80	19.8	OK
100	80	20.5	
100	109	32.9	OK
100	109	30.7	
100	132	43.2	OK
100	132	45.7	
100	181	65.7	OK
100	181	69.0	
350	31	12.5	OK
350	31	18.0	
350	62		BAD
350	62		
350	80	39.1	OK
350	80	64.8	
350	109	65.4	OK
350	109	72.9	
350	132	87.4	OK
350	132	95.8	
350	181		BAD
350	181		





AO Rates from Slopes ($nM\ d^{-1}$)	Sample
10.1	Stn 000.100 80 m
17.8	Stn 000.100 350 m
10.3	Stn 203.031 80 m
4.1	Stn 203.031 400 m

Stn 203.031 All Data		
Depth (m)	Elapsed Time (hr)	NH_4^+ Oxidized (nM)
80	19	10.7
80	19	10.7
80	47	24.0
80	47	24.4
80	70	34.1
80	70	36.2
80	91	41.2
80	91	46.2
80	118	13.6
80	118	53.1
80	139	51.5
80	139	73.9
400	19	4.0
400	19	5.8
400	47	8.8
400	47	31.7
400	70	11.6
400	70	13.0
400	91	16.9
400	91	32.2
400	118	26.5
400	118	64.7
400	139	21.7
400	139	27.8

Stn 203.031 Edited			
Depth (m)	Elapsed Time (hr)	NH_4^+ Oxidized (nM)	Replication Test
80	19	10.7	OK
80	19	10.7	
80	47	24.0	OK
80	47	24.4	
80	70	34.1	OK
80	70	36.2	
80	91	41.2	OK
80	91	46.2	
80	118		BAD
80	118		
80	139	51.5	OK
80	139	73.9	
400	19	4.0	OK
400	19	5.8	
400	47		BAD
400	47		
400	70	11.6	OK
400	70	13.0	
400	91		BAD
400	91		
400	118		BAD
400	118		
400	139	21.7	OK
400	139	27.8