

Appendix 4-5: Water Year 2005 Diel Data for STA-1W

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Table 1. Statistical summary of diel parameters at the outflow stations (G-251D and G-310) and transect stations in the Refuge for each deployment period.

Period	Location	Station	Temperature (°C)						Specific Conductivity (µS/cm)						Water pH						Dissolved Oxygen (mg/L)						
			No. of Samples	Mean	Minimum	Median	Maximum	Standard Deviation	No. of Samples	Mean	Minimum	Median	Maximum	Standard Deviation	No. of Samples	Mean	Minimum	Median	Maximum	Standard Deviation	No. of Samples	Mean	Minimum	Median	Maximum	Standard Deviation	
06/21/2004-06/24/2004	Outflow	G251D	136	28.92	27.50	29.04	30.46	0.82	136	885.7	863	884	917	13.8	136	7.40	7.31	7.37	7.56	0.08	136	3.23	1.39	2.95	5.72	1.42	
		G310	136	30.32	29.33	30.58	31.05	0.52	136	658.4	620	664	688	21.2	136	8.07	7.04	8.15	8.26	0.18	136	4.28	3.33	4.43	4.84	0.40	
06/28/2004-06/30/2004	Transect Y	Y4	116	28.77	24.74	28.73	36.82	2.82	116	339.3	315	338	373	11.0	116	6.84	6.64	6.83	6.99	0.06	-----	-----	-----	-----	-----	-----	
		Transect Z	Z1	116	29.73	25.34	29.06	36.07	2.96	116	1150.6	1102	1135	1208	43.9	116	7.54	7.40	7.53	7.72	0.08	116	2.89	0.26	2.90	5.96	1.76
	Z3		115	30.42	24.71	29.90	38.63	3.99	115	399.1	380	399	434	10.0	115	7.08	6.54	7.04	8.11	0.42	115	4.72	0.91	4.69	9.52	2.78	
	Z4		116	28.91	24.17	27.99	36.93	4.00	-----	-----	-----	-----	-----	-----	116	6.56	6.09	6.47	7.01	0.23	116	3.98	0.66	3.24	8.64	2.91	
09/23/2004-09/27/2004	Outflow	G251D	199	25.82	24.49	25.70	27.75	0.76	199	1081.4	1005	1079	1152	52.7	199	7.57	7.32	7.40	7.93	0.24	199	3.26	0.83	2.14	6.45	2.18	
		G310	199	25.96	24.06	25.77	27.86	1.03	199	1090.1	924	1152	1182	97.8	199	7.82	7.63	7.81	8.01	0.12	199	4.79	2.61	4.96	6.50	1.16	
10/04/2004-10/08/2004	Transect X	X1	181	26.17	24.97	26.20	27.39	0.57	181	706.9	684	711	719	10.2	181	7.04	7.01	7.04	7.09	0.02	163	0.06	0.01	0.07	0.15	0.03	
		X2	179	26.67	25.12	26.53	27.84	0.68	179	556.2	549	556	562	3.7	179	6.77	6.73	6.77	6.83	0.02	179	0.72	0.28	0.71	1.56	0.27	
		X3	181	28.12	25.22	27.98	31.47	1.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	181	2.08	0.35	1.92	4.78	1.39	
		X4	181	28.03	25.32	27.93	31.67	1.50	181	116.9	106	118	129	8.2	181	6.57	6.41	6.55	6.84	0.11	181	4.31	2.11	4.30	6.97	1.47	
	Transect Y	Y4	181	27.96	25.40	27.80	30.71	1.33	181	153.4	141	156	165	7.5	181	6.53	6.41	6.51	6.80	0.09	181	3.06	1.03	2.82	6.03	1.31	
		Transect Z	Z1	181	27.62	25.98	27.55	28.81	0.72	181	696.9	670	696	727	15.1	181	7.24	7.20	7.24	7.33	0.03	180	0.70	0.01	0.55	2.20	0.64
			Z2	181	28.06	25.46	27.86	30.96	1.31	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	179	1.94	0.01	1.62	5.99	1.74
			Z3	181	28.03	25.48	27.90	31.07	1.39	181	326.3	293	331	353	21.0	181	6.73	6.60	6.74	6.81	0.05	-----	-----	-----	-----	-----	
Z4	181		27.74	25.31	27.72	30.28	1.28	181	109.4	103	112	116	4.8	181	6.12	5.88	6.03	6.77	0.24	181	2.76	0.85	2.62	5.05	1.04		
12/13/2004-12/16/2004	Outflow	G251D	137	15.54	12.83	16.52	17.25	1.55	137	746.1	648	737	819	32.0	137	7.58	7.48	7.57	7.83	0.07	137	5.33	4.10	5.02	7.62	0.92	
		G310	137	16.79	14.53	16.90	19.21	1.26	137	805.4	772	804	825	15.3	137	8.45	8.32	8.43	8.56	0.07	137	5.28	4.09	5.08	6.62	0.85	
01/03/2005-01/07/2005	Transect X	X1	181	17.06	16.07	17.11	17.98	0.50	181	496.9	482	494	520	9.5	181	6.95	6.86	6.94	7.04	0.04	181	0.97	0.12	0.85	2.49	0.53	
		X2	183	18.88	17.07	18.87	20.59	0.94	182	284.6	281	284	290	1.9	183	6.80	6.74	6.79	7.34	0.05	183	3.59	1.11	3.43	8.58	1.46	
		X3	182	19.27	17.77	19.24	20.92	0.82	182	212.7	208	213	218	2.7	182	6.58	6.47	6.55	7.01	0.08	182	3.94	1.64	3.97	7.21	1.30	
		X4	181	19.88	17.51	19.95	22.04	1.12	181	181.5	177	182	185	1.7	181	6.53	6.36	6.54	6.77	0.08	181	4.21	2.30	4.18	7.54	1.17	
	Transect Z	Z3	183	21.31	18.62	21.36	24.20	1.34	183	240.5	236	241	243	1.2	-----	-----	-----	-----	-----	-----	183	6.06	4.34	5.97	8.54	1.04	
		Z4	183	21.56	18.97	21.48	24.11	1.26	183	155.7	153	156	161	2.0	183	6.98	6.79	6.97	7.86	0.13	183	6.46	4.64	6.49	8.09	0.81	
03/07/2005-03/10/2005	Outflow	G251D	141	18.41	15.48	18.82	20.05	1.31	141	909.2	776	937	947	50.9	141	7.53	7.48	7.52	7.61	0.03	141	3.73	2.69	3.78	4.87	0.66	
		G310	138	18.81	17.08	18.96	20.63	0.86	138	906.1	859	915	919	15.7	138	7.72	7.54	7.72	7.93	0.10	138	4.75	3.59	4.81	5.46	0.36	
03/07/2005-03/11/2005	Transect X	X1	179	15.89	14.10	15.78	17.95	1.18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	179	1.16	0.41	0.88	3.65	0.67	
		X3	179	17.81	13.42	17.66	24.58	3.00	-----	-----	-----	-----	-----	-----	179	7.06	6.81	7.05	7.63	0.15	179	6.21	1.86	6.47	10.96	2.36	
		X4	179	17.97	12.90	17.79	27.44	3.41	179	196.0	151	207	235	35.9	179	6.98	6.50	6.91	7.57	0.22	179	7.61	4.30	8.00	9.81	1.60	
	Transect Y	Y4	179	18.22	13.87	18.05	25.63	3.04	-----	-----	-----	-----	-----	-----	179	7.20	6.84	7.15	7.96	0.29	179	7.14	3.82	6.88	10.20	1.62	
		Transect Z	Z1	179	17.26	14.75	17.34	19.83	1.45	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	179	3.42	0.53	3.39	5.92	1.26
	Z2		107	18.66	13.18	18.59	24.11	2.93	-----	-----	-----	-----	-----	-----	102	7.18	6.98	7.13	7.56	0.15	-----	-----	-----	-----	-----		
	Z3		179	18.56	13.84	18.71	24.25	2.76	179	240.0	200	253	266	25.5	179	7.17	6.89	7.14	7.61	0.17	179	7.63	5.16	7.78	9.34	1.01	
	Z4		179	18.30	13.74	18.49	24.06	2.74	179	189.7	166	198	212	19.2	179	7.40	6.98	7.38	7.77	0.17	-----	-----	-----	-----	-----		

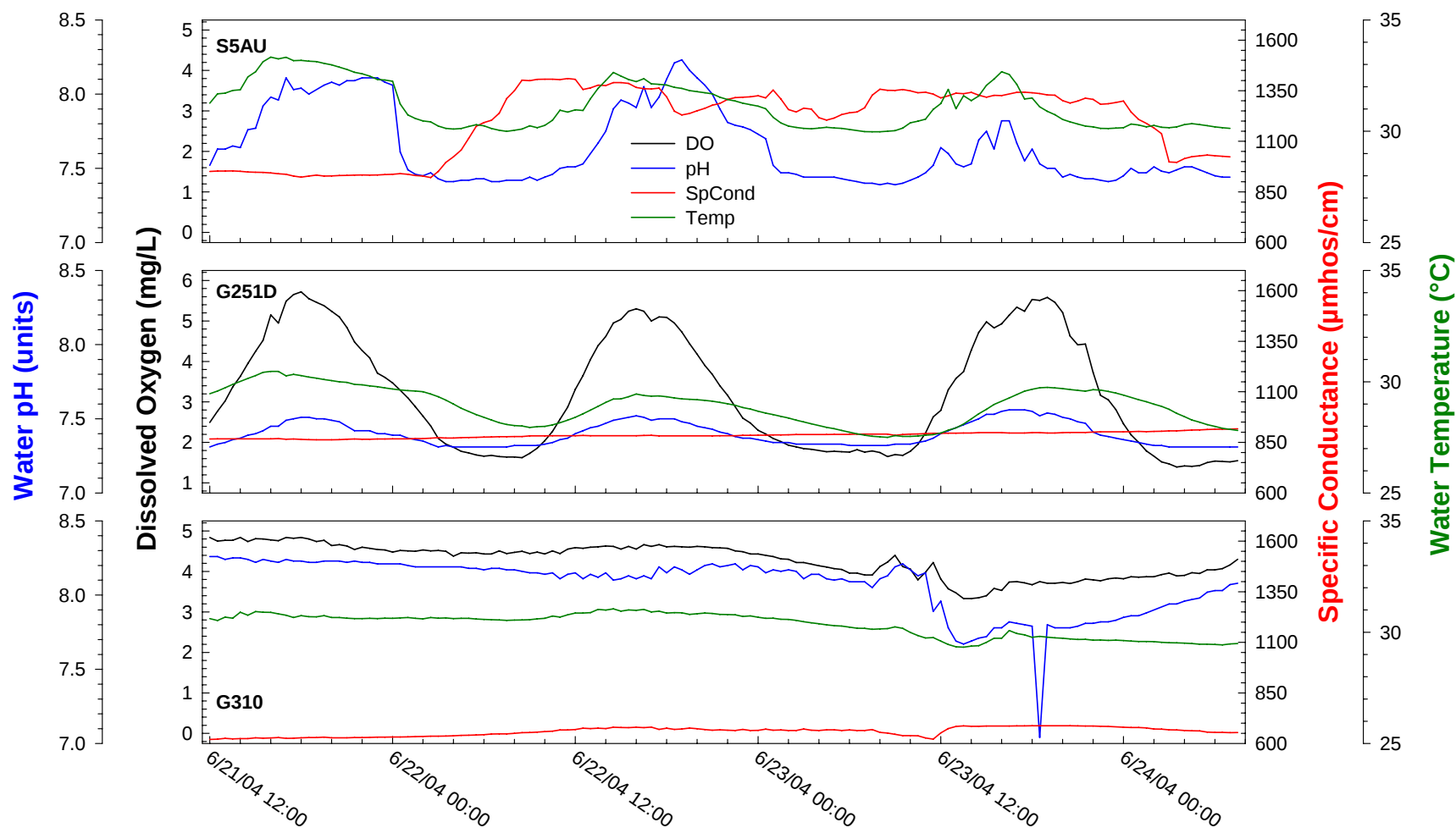


Figure 1. Diel measurements at S5AU, G251D and G310 in STA-1W, June 21-24, 2004.

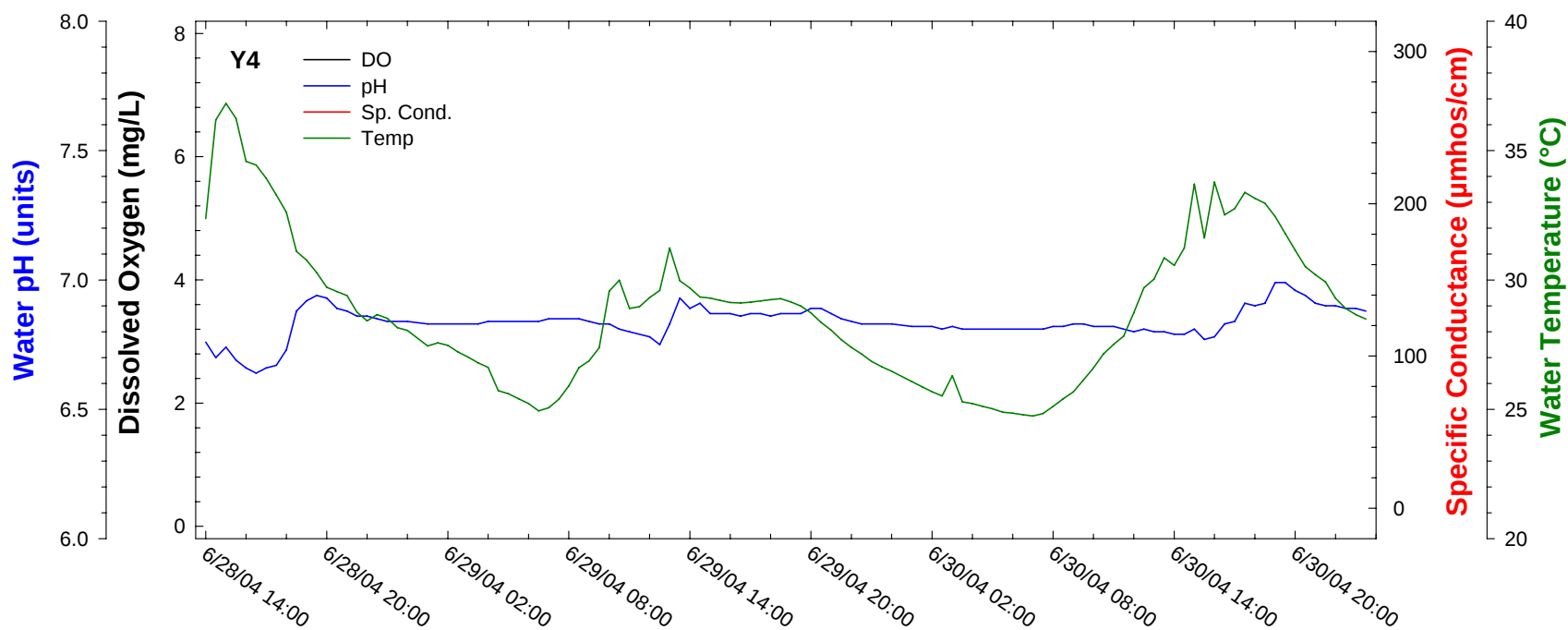


Figure 2. Diel measurements along Transect Y, June 28-30, 2004.

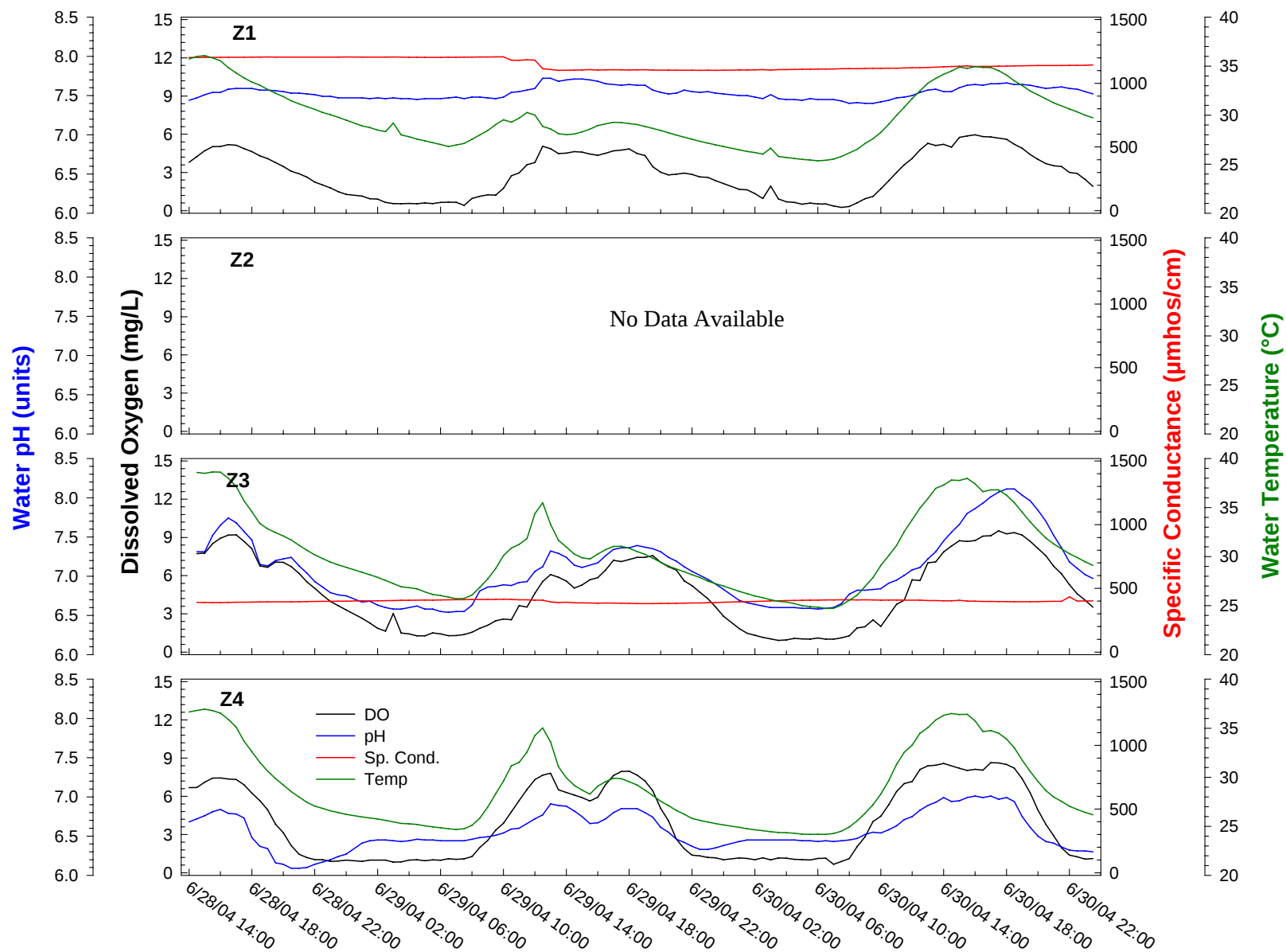


Figure 3. Diel measurements along Transect Z, June 28-30, 2004.

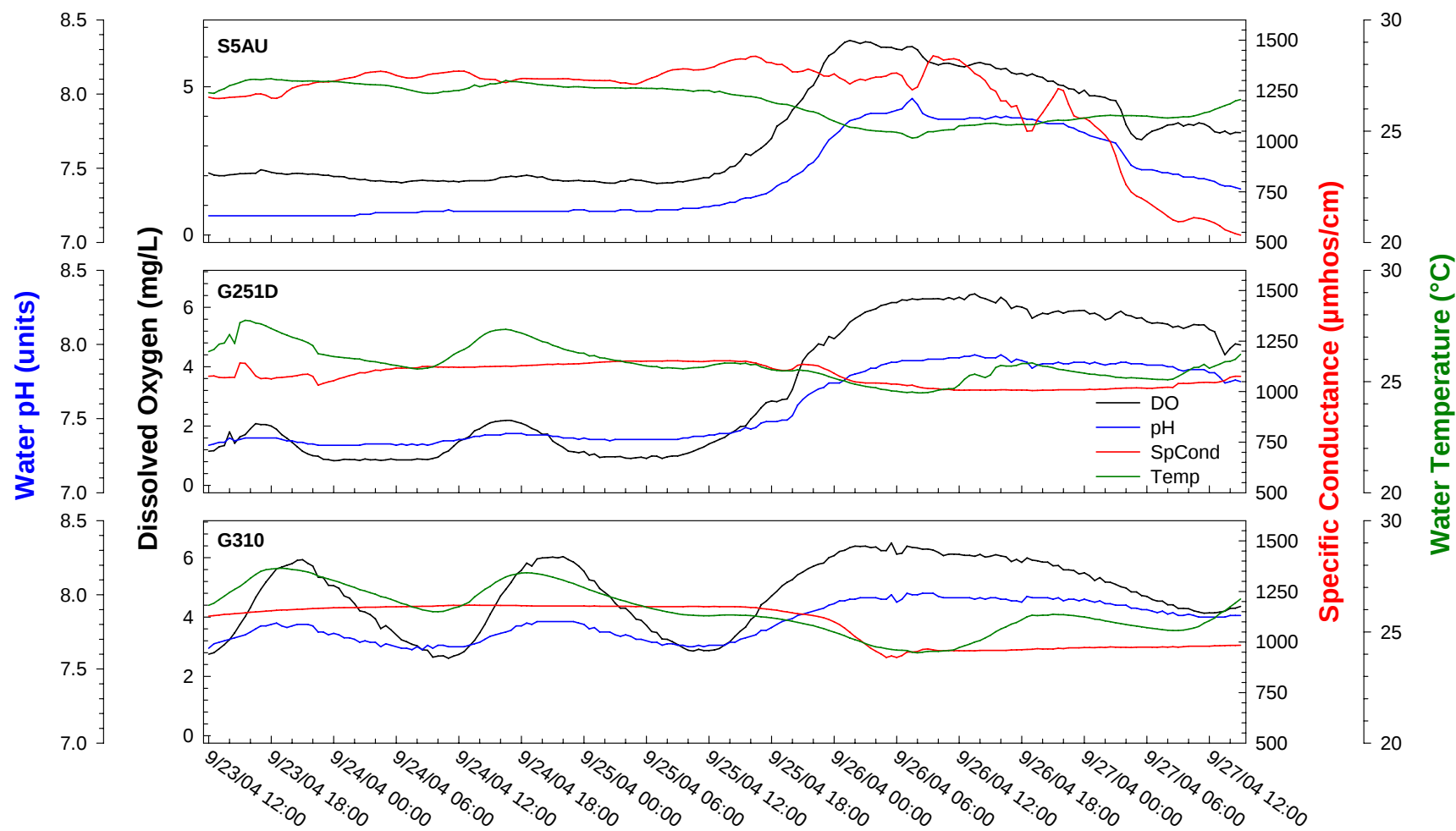


Figure 4. Diel measurements at S5AU, G251D, and G3110 in STA-1W, September 23-27, 2004.

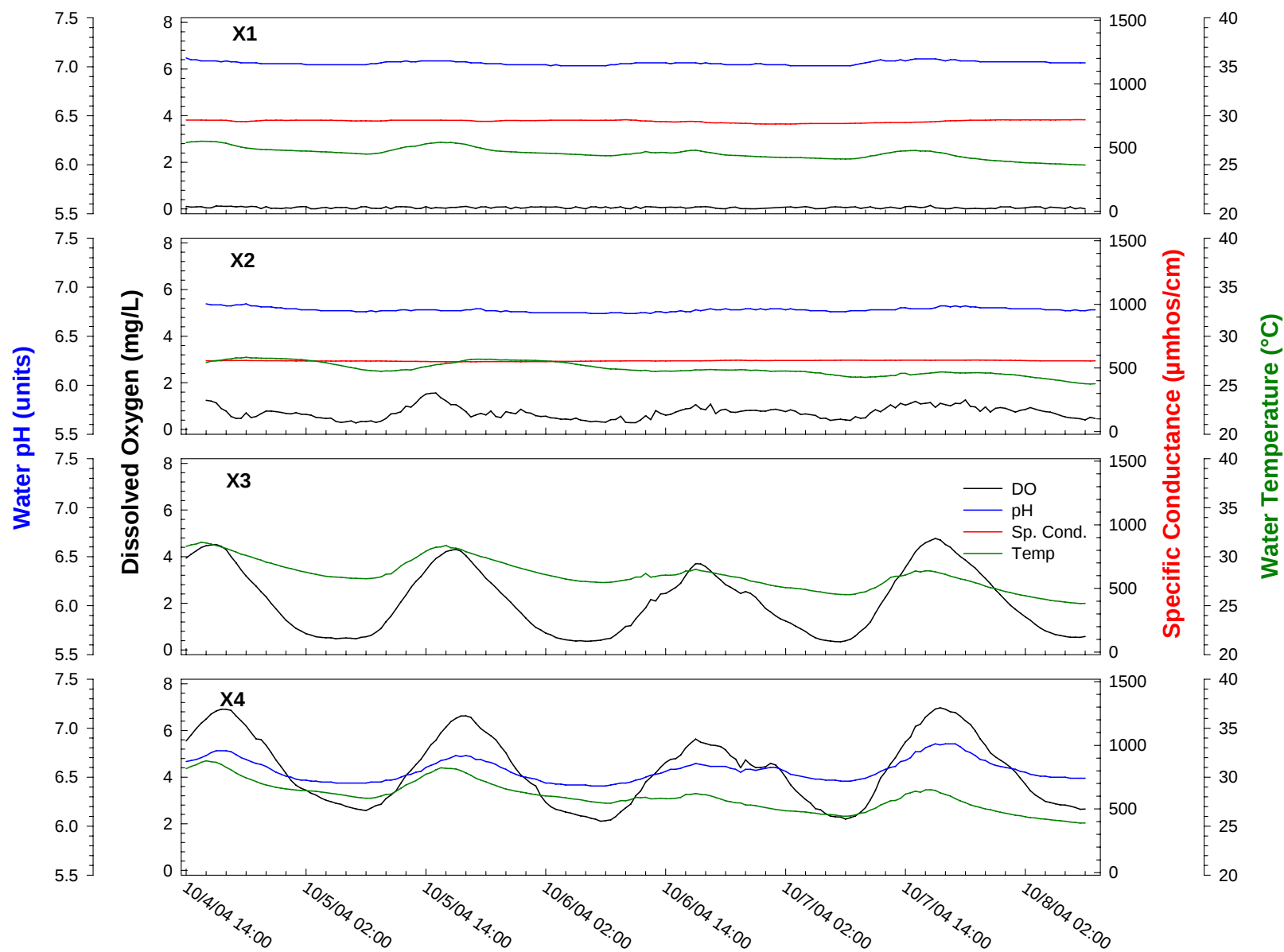


Figure 5. Diel measurements along Transect X, October 4-8, 2004.

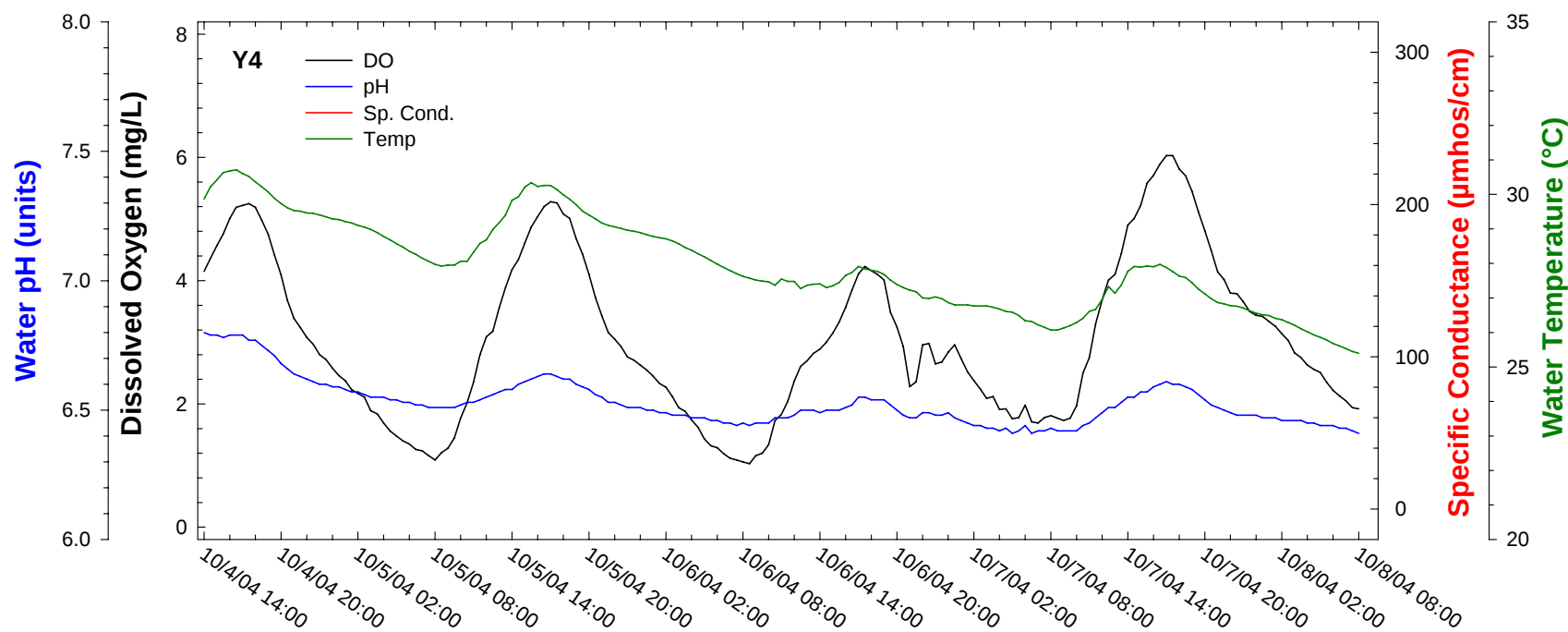


Figure 6. Diel measurements along Transect Y, October 4-8, 2004.

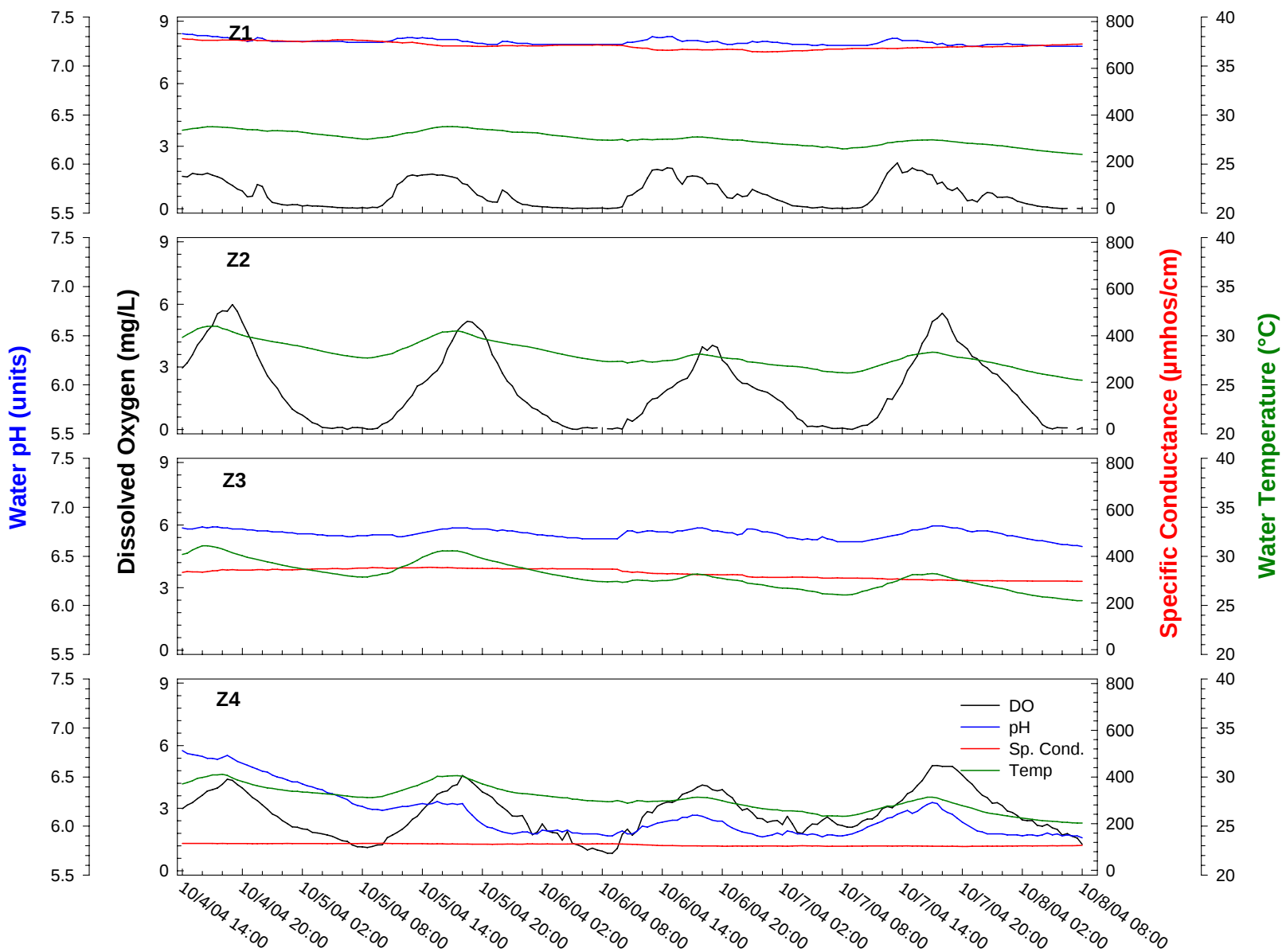


Figure 7. Diel measurements along Transect Z, October 4-8, 2004.

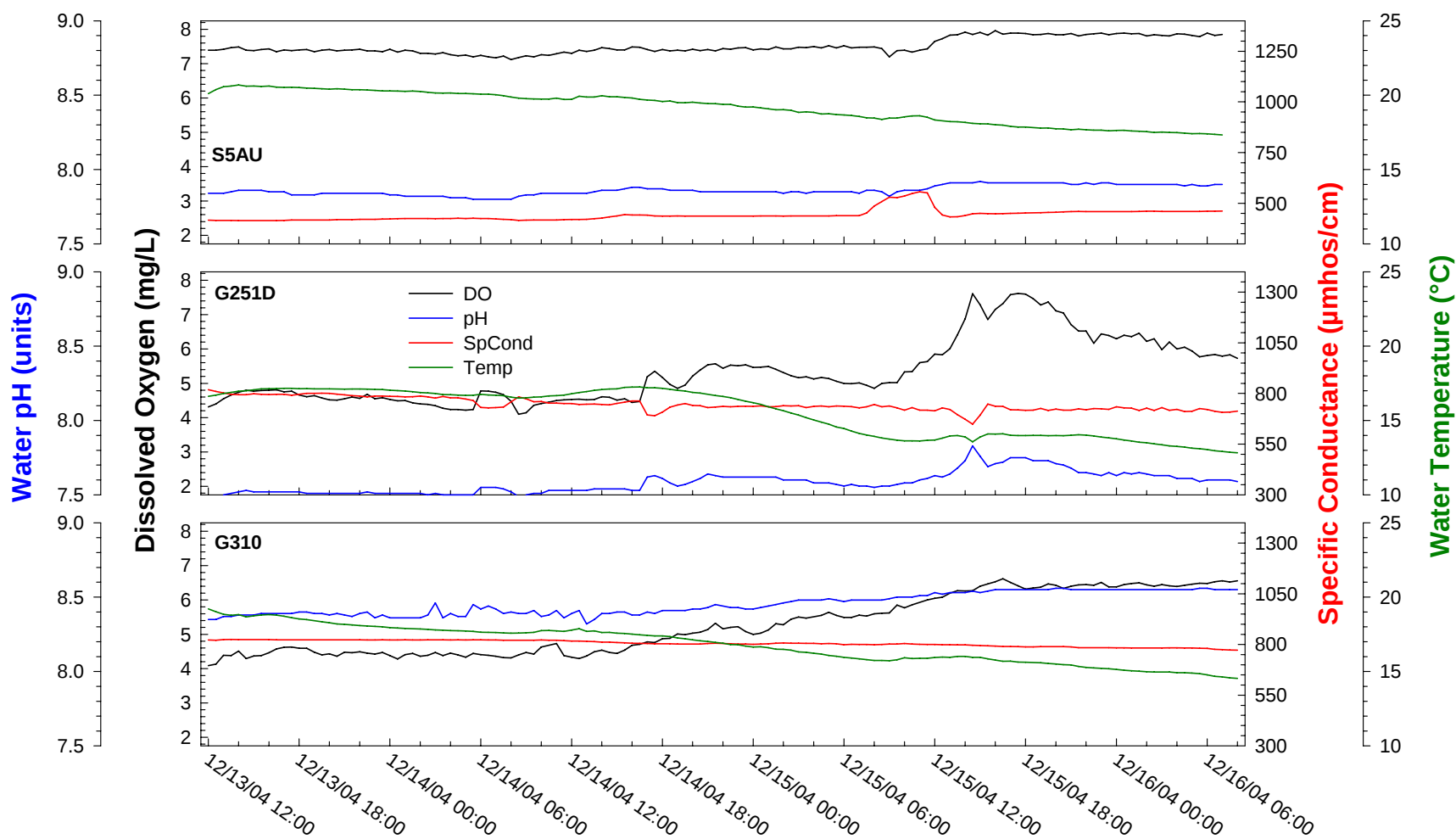


Figure 8. Diel measurements at S5AU, G251D, and G310 in STA-1W, December 13–16, 2004.

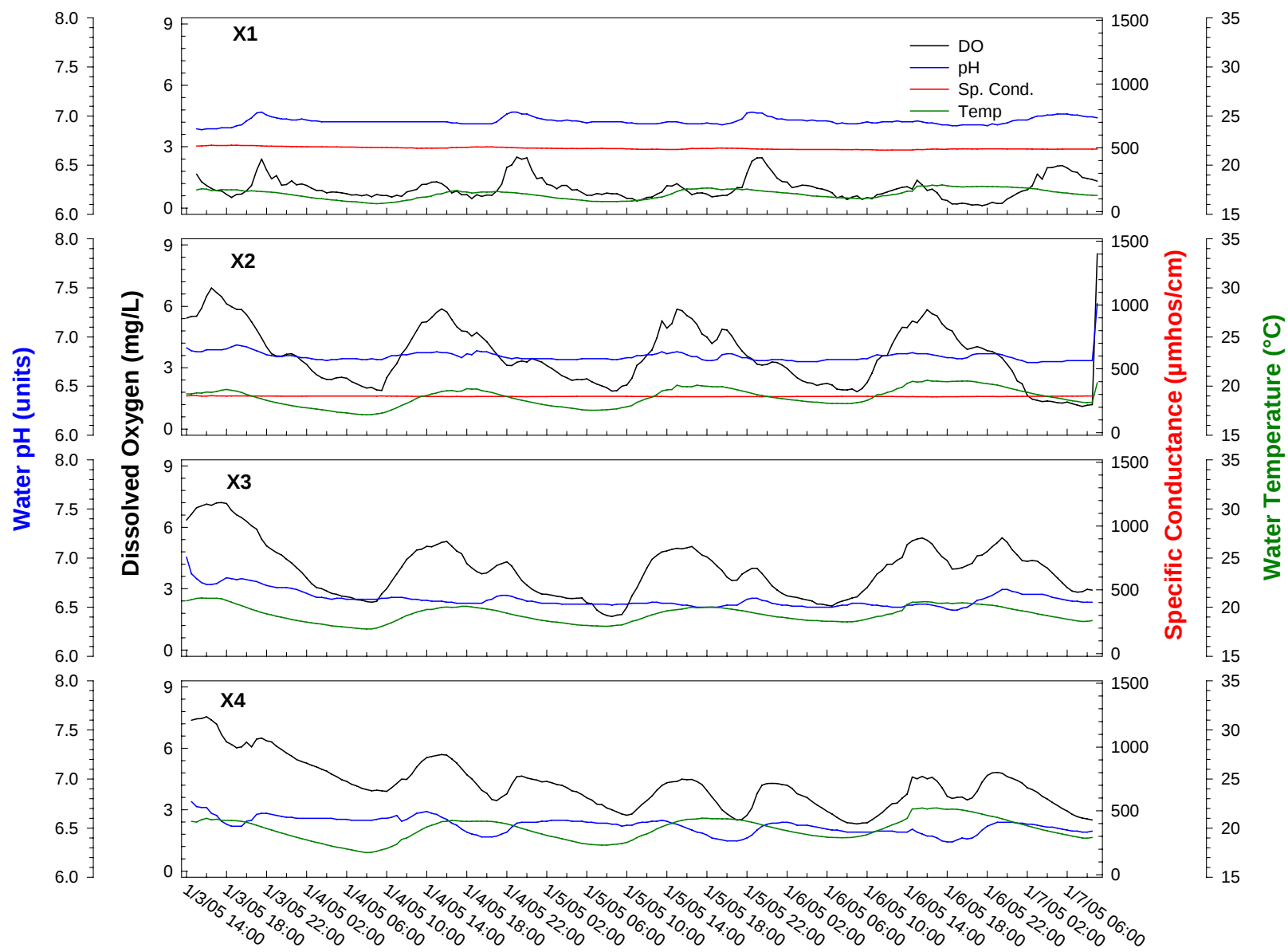


Figure 9. Diel measurements along Transect X, January 3-7, 2005.

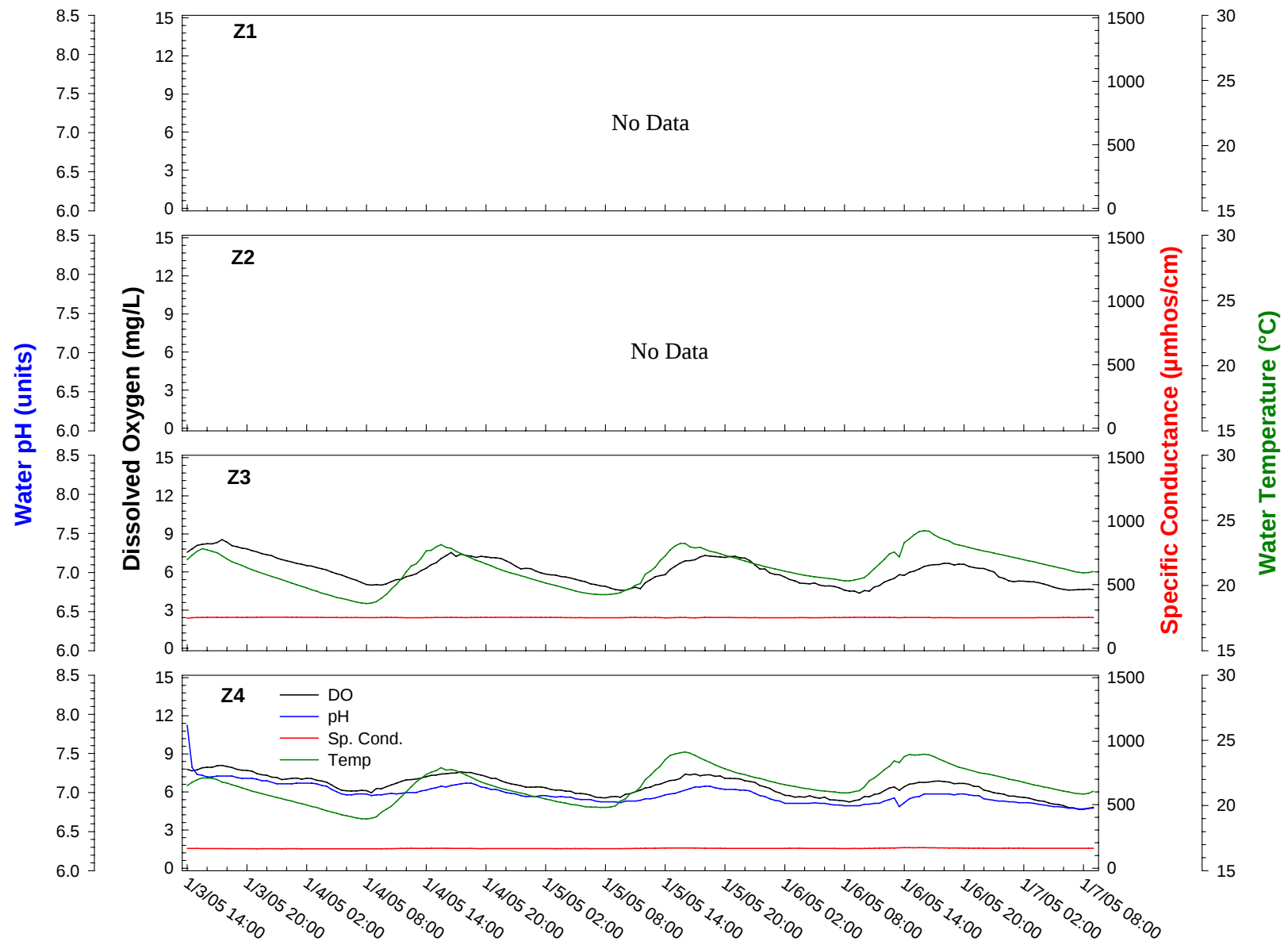


Figure 10. Diel measurements along Transect Z, January 13-17, 2003.

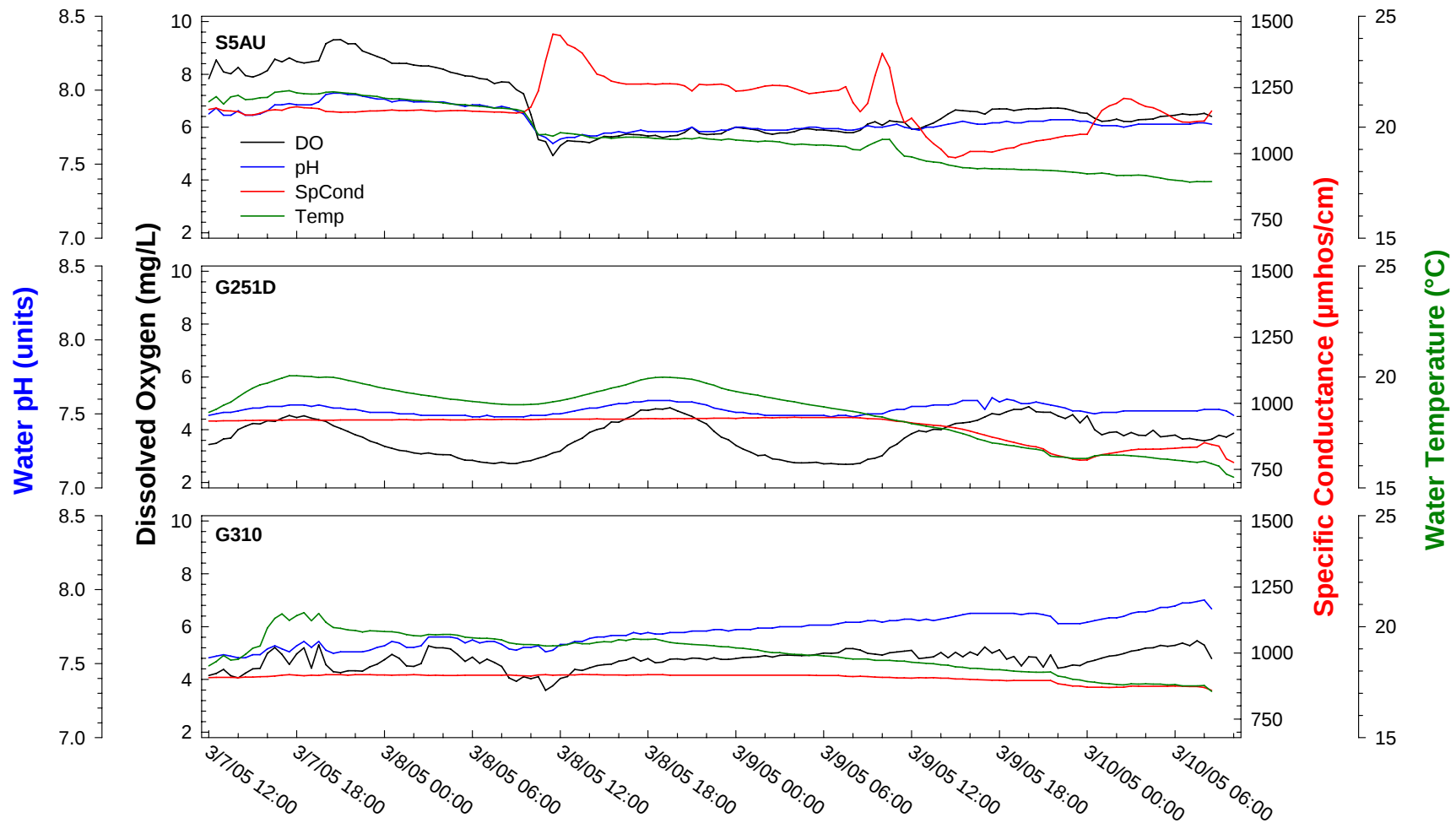


Figure 11. Diel measurements at S5AU, G251D, and G310 in STA-1W, March 7-11, 2005.

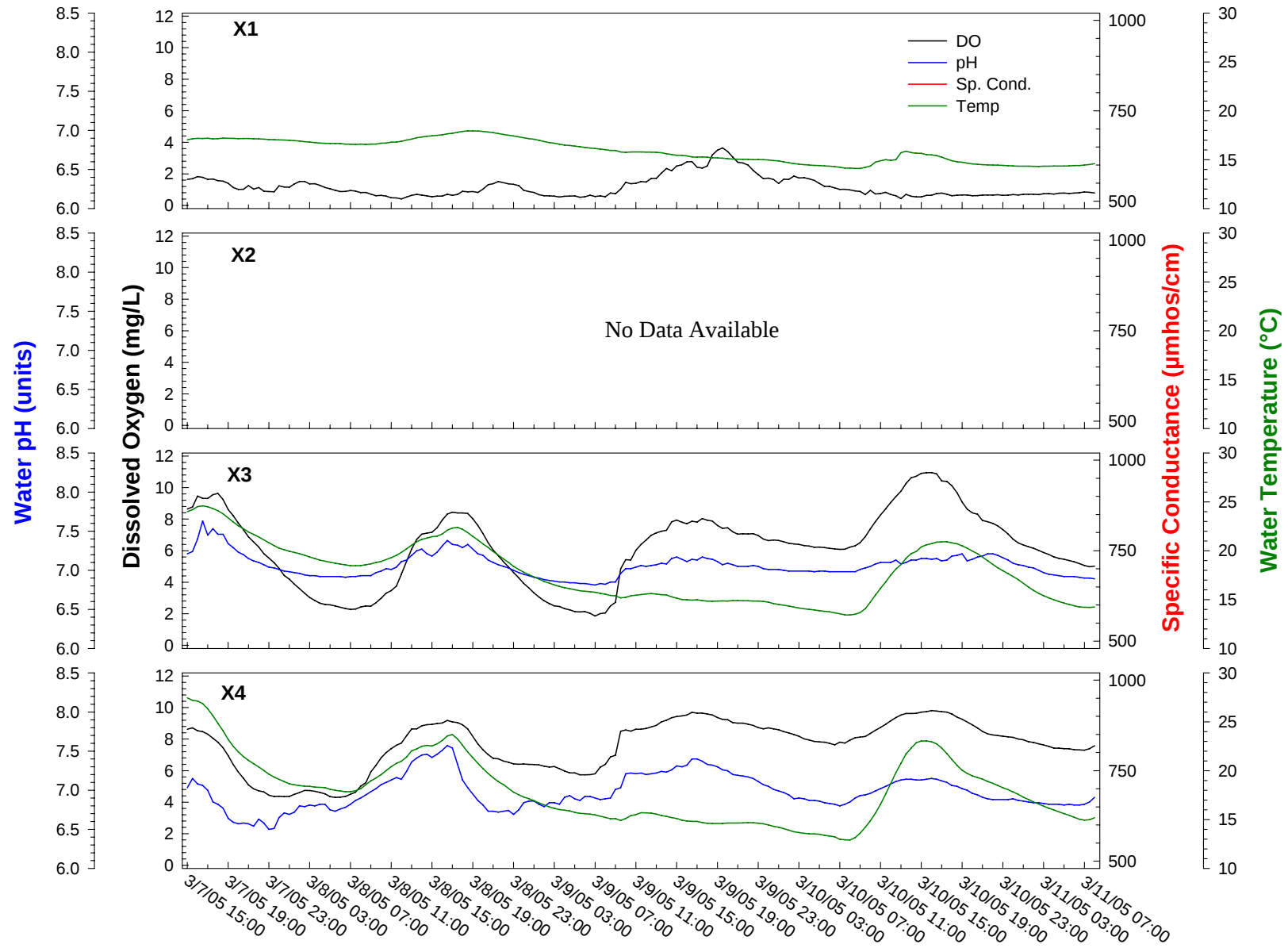


Figure 12. Diel measurements along Transect X, March 7-11, 2005.

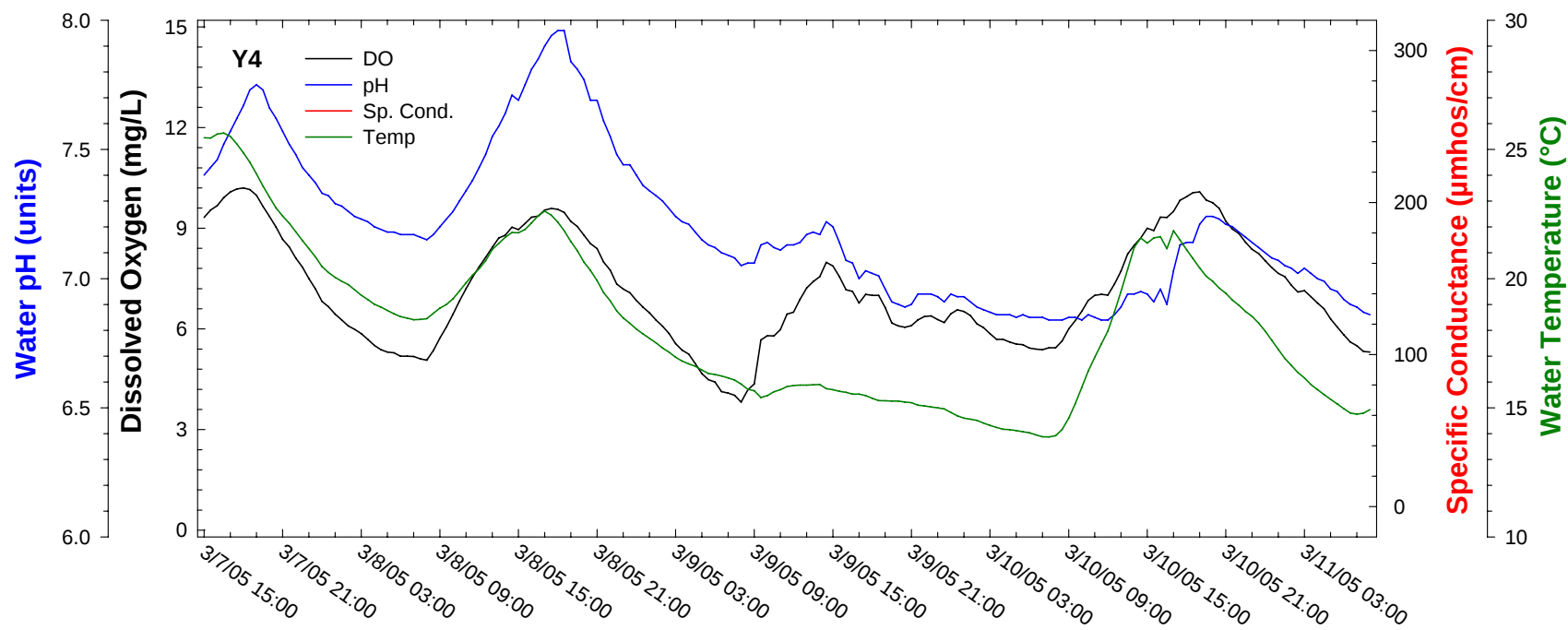


Figure 13. Diel measurements along Transect Y, March 7-11, 2005.

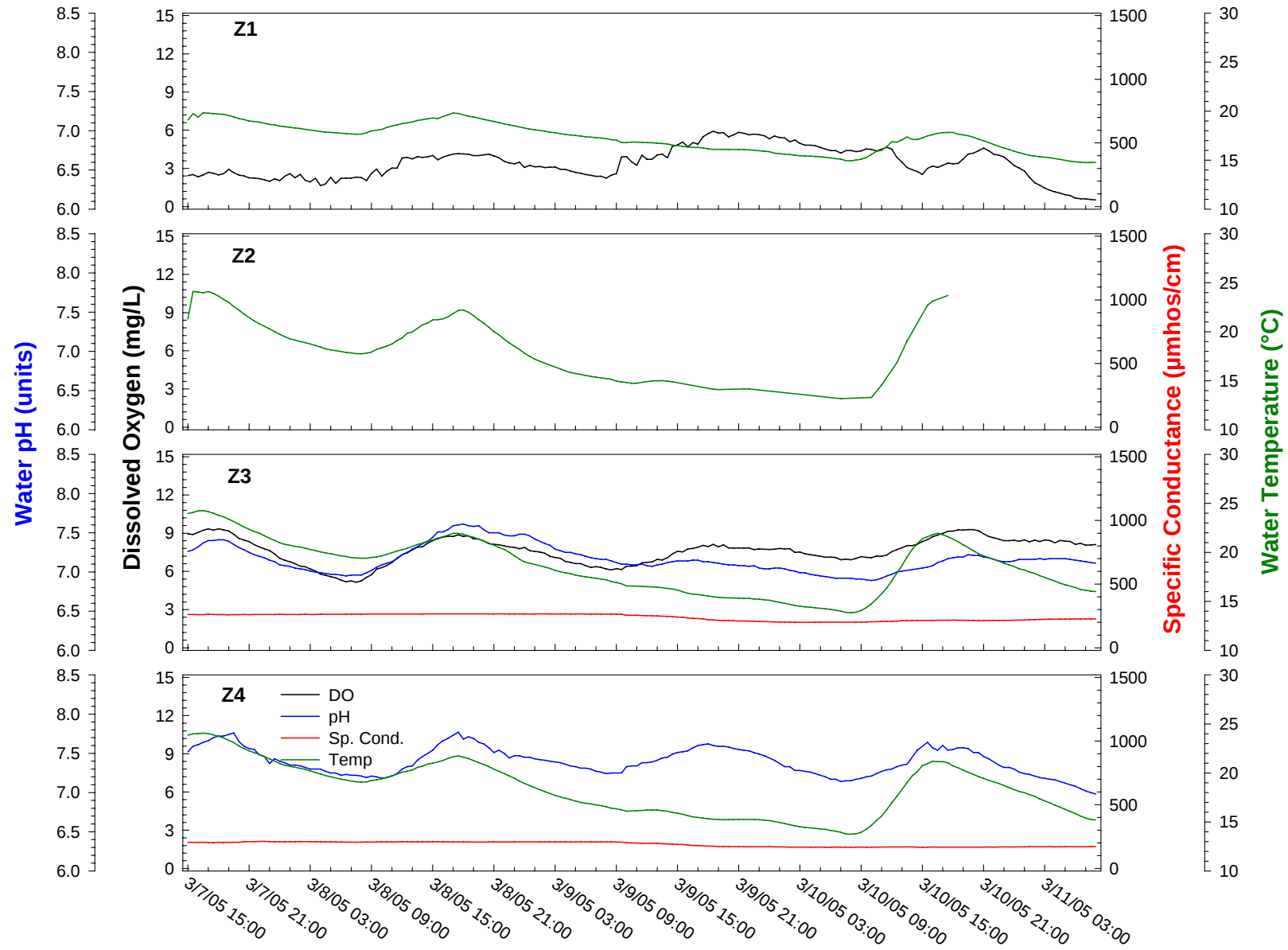


Figure 14. Diel measurements along Transect Z, April 21-25, 2003.