

Appendix

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG0101	348359	676308	3	7	40	45	1	0	5	0
BG0103	349222	675811	8	2	32	56	1	0	0	0
BG0105	350095	675355	4	4	33	55	3	1	0	0
BG0107	350963	674869	4	2	24	53	1	1	0	14
BG0109	351831	674399	4	1	25	66	0	4	0	0
BG0111	352714	673909	5	2	19	71	2	1	0	0
BG0113	353571	673426	7	1	21	69	2	0	0	0
BG0115	354450	672947	2	2	22	72	1	1	0	0
BG0117	355327	672472	0	1	10	85	2	1	0	0
BG0119	356211	671981	0	1	11	86	2	1	0	0
BG0121	357080	671514	4	1	15	77	3	0	0	0
BG0123	357947	671013	4	1	14	69	1	1	0	9
BG0125	358834	670556	1	2	9	86	1	1	0	0
BG0129	360623	669575	6	3	20	69	2	1	0	0
BG0201	345462	665517	1	5	51	35	1	0	1	6
BG0203	346346	664968	4	2	68	17	2	1	6	0
BG0205	347181	664449	3	2	42	50	1	1	1	0
BG0301	345719	665939	3	7	73	14	2	1	0	0
BG0303	346641	665451	3	3	28	64	1	1	0	0
BG0305	347499	664980	3	3	32	60	1	1	0	0
BG0401	345500	666000	3	3	66	22	2	3	1	0
BG0403	346500	666000	2	10	26	57	2	0	2	0
BG0405	347500	666000	4	3	26	56	1	0	1	8
BG0407	348500	666000	5	2	31	59	0	0	3	0
BG0409	349500	666000	3	2	12	81	2	1	0	0
BG0411	350500	666000	3	1	9	87	0	0	0	0
BG0413	351500	666000	6	3	24	62	3	2	0	0
BG0415	352500	666000	7	2	27	58	5	1	0	0
BG0501	346000	666500	6	3	61	26	1	1	2	0
BG0503	347000	666500	3	7	19	64	4	1	3	0
BG0505	348000	666500	2	1	15	79	0	0	1	0
BG0507	349000	666500	4	1	14	79	1	1	0	0
BG0509	350000	666500	4	1	20	71	1	1	2	0
BG0511	351000	666500	1	1	11	77	0	1	1	7
BG0513	352000	666500	4	1	8	85	1	1	0	0
BG0515	353000	666500	7	2	24	61	1	2	4	0
BG0601	346000	667000	2	8	66	20	1	2	1	0
BG0603	347000	667000	2	10	66	18	1	2	1	0
BG0605	348000	667000	8	2	34	52	2	1	0	0
BG0607	349000	667000	3	2	15	68	1	1	0	10
BG0609	350000	667000	4	2	16	77	1	0	0	0
BG0611	351000	667000	3	1	10	82	2	1	0	0

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SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG0613	352000	667000	4	1	13	78	3	0	0	0
BG0615	353000	667000	2	2	10	84	2	0	0	0
BG0617	354000	667000	1	2	22	71	0	1	2	0
BG0619	355500	667000	2	3	33	59	0	1	3	0
BG0621	356500	667000	3	2	14	78	1	0	2	0
BG0623	357500	667000	2	3	26	68	1	1	0	0
BG0625	359000	667000	2	4	37	49	1	1	1	5
BG0701	346000	667500	2	3	66	24	1	2	2	0
BG0703	347000	667500	4	5	56	25	2	1	2	5
BG0705	348000	667500	2	4	9	82	1	1	0	0
BG0707	349000	667500	2	2	14	80	2	1	0	0
BG0709	350000	667509	7	2	19	56	2	0	0	14
BG0711	351000	667500	1	2	23	68	3	3	0	0
BG0713	352000	667500	5	1	12	79	1	1	0	0
BG0715	353000	667500	2	1	7	88	0	0	1	0
BG0717	354000	667500	5	1	19	72	3	0	0	0
BG0719	355500	667500	3	3	26	65	1	1	0	0
BG0721	356500	667500	6	3	19	68	1	1	2	0
BG0723	357500	667500	4	2	18	60	2	0	4	10
BG0725	358500	667500	5	2	35	50	3	1	2	0
BG0727	359500	667500	6	2	33	53	3	2	0	0
BG0801	346500	668000	3	4	68	15	1	2	1	6
BG0803	347500	668000	2	11	11	67	1	1	0	8
BG0805	348500	668000	5	2	19	72	2	1	0	0
BG0807	349500	668000	10	1	19	50	9	3	7	0
BG0809	350500	668000	2	1	10	83	2	1	0	0
BG0811	351500	668000	4	1	21	72	3	0	0	0
BG0813	352500	668000	3	1	15	80	1	0	0	0
BG0815	353500	668000	0	2	19	77	1	1	0	0
BG0817	354500	668000	5	2	12	79	1	1	0	0
BG0819	356000	668000	3	2	9	83	1	1	0	0
BG0821	357000	668000	1	3	16	76	2	2	0	0
BG0823	358000	668000	2	1	7	88	2	0	0	0
BG0825	359000	668000	1	2	17	77	1	1	0	0
BG0827	360000	668000	7	2	41	44	2	2	2	0
BG0901	346500	668500	3	3	64	22	2	1	1	4
BG0903	347500	668500	3	8	56	24	1	2	0	6
BG0905	348500	668500	4	2	25	66	2	1	0	0
BG0907	349500	668500	8	2	23	60	0	2	4	0
BG0909	350500	668500	2	2	21	72	2	1	0	0
BG0911	351500	668500	4	2	20	72	1	1	0	0

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(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG0913	352500	668500	1	2	17	76	3	1	0	0
BG0915	353500	668500	5	2	9	79	2	0	2	0
BG0917	354500	668500	4	3	15	76	1	1	0	0
BG0919	355500	668500	5	3	23	63	2	2	2	0
BG0921	356500	668500	5	2	16	75	2	1	0	0
BG0923	357500	668500	6	2	19	70	3	0	0	0
BG0925	358500	668500	7	2	14	74	1	1	2	0
BG0927	359500	668500	7	2	20	67	2	1	0	0
BG0929	360500	668500	4	3	24	66	1	1	1	0
BG1001	346500	663500	2	4	29	64	0	1	0	0
BG1003	350000	663500	1	1	16	75	4	2	0	0
BG1101	346500	664000	5	3	63	14	2	3	0	11
BG1103	347500	664000	7	2	46	39	1	1	4	0
BG1105	349000	664000	1	2	7	87	1	1	0	0
BG1107	350000	664000	3	2	15	69	0	2	0	10
BG1109	351000	664000	3	3	22	68	3	1	0	0
BG1201	345000	664500	2	2	67	25	1	1	1	0
BG1203	346000	664500	2	2	49	42	1	2	2	0
BG1205	347000	664500	2	2	42	46	1	2	0	6
BG1207	348000	664500	4	10	12	72	1	1	0	0
BG1209	349000	664500	1	3	20	75	0	1	0	0
BG1211	350000	664500	5	2	13	79	1	1	0	0
BG1213	351000	664500	1	3	14	63	1	1	0	16
BG1301	345500	665000	3	2	58	27	1	1	3	5
BG1303	346500	665000	4	0	46	46	1	1	2	0
BG1305	347500	665000	3	1	28	66	1	1	0	0
BG1307	348500	665000	3	1	17	77	1	1	0	0
BG1309	349500	665000	4	1	20	73	1	1	0	0
BG1311	350500	665000	4	1	23	67	4	2	0	0
BG1313	351500	665000	6	2	30	58	2	2	0	0
BG1401	345500	665500	3	4	58	31	1	0	3	0
BG1403	346500	665500	3	6	24	65	0	2	0	0
BG1411	350500	665500	5	2	31	59	1	1	0	0
BG1413	351500	665500	5	2	17	76	1	0	0	0
BG1501	346500	669000	3	5	68	20	1	2	1	0
BG1503	347500	669000	8	6	40	39	5	2	0	0
BG1505	348500	669000	0	1	16	58	4	3	0	17
BG1507	349500	669000	3	1	10	82	2	1	1	0
BG1509	350500	669000	1	1	8	87	1	2	0	0
BG1511	351500	669000	3	1	17	77	2	1	0	0
BG1405	347500	665500	4	4	30	57	1	1	3	0

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SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG1407	348500	665500	4	3	14	75	1	1	2	0
BG1409	349500	665500	6	4	33	53	3	1	0	0
BG1513	352500	669000	1	1	20	77	0	1	0	0
BG1515	353500	669000	6	1	24	64	2	0	2	0
BG1517	354500	669000	5	2	21	69	2	1	0	0
BG1519	355500	669000	5	2	17	73	1	2	0	0
BG1521	356500	669000	5	2	6	84	3	1	0	0
BG1523	357500	669000	5	3	21	71	0	1	0	0
BG1525	358500	669000	9	2	21	62	4	1	0	0
BG1527	359500	669000	5	2	20	69	2	2	0	0
BG1529	363000	669000	5	7	30	56	1	1	0	0
BG1531	364000	669000	7	7	38	43	2	1	3	0
BG1601	347000	670000	3	2	60	27	1	1	2	4
BG1603	348000	670000	4	1	17	75	2	0	0	0
BG1605	349000	670000	5	2	12	81	1	0	0	0
BG1607	350000	670000	1	1	13	83	0	1	0	0
BG1609	351000	670000	2	1	10	84	2	1	0	0
BG1611	352000	670000	4	1	16	75	3	1	0	0
BG1613	353000	670000	1	1	21	64	1	2	0	10
BG1615	354000	670000	2	2	25	69	1	1	0	0
BG1617	355000	670000	5	2	12	78	2	1	0	0
BG1619	356000	670000	2	2	8	86	1	1	0	0
BG1621	357000	670000	4	2	16	76	2	1	0	0
BG1623	358000	670000	4	2	18	72	3	1	0	0
BG1625	359000	670000	2	2	22	70	2	2	0	0
BG1627	360000	670000	1	2	22	71	2	1	0	0
BG1629	363000	670000	3	9	37	47	1	2	2	0
BG1631	364000	670000	4	8	10	70	1	0	1	6
BG1701	347000	671000	4	2	58	28	1	2	2	3
BG1703	348000	671000	7	2	27	33	3	2	8	17
BG1705	349000	671000	3	1	16	77	0	2	0	0
BG1707	350000	671000	4	2	11	82	1	1	0	0
BG1709	351000	671000	2	1	10	84	1	2	0	0
BG1711	352000	671000	2	2	17	77	2	0	0	0
BG1713	353000	671000	5	2	18	73	1	1	0	0
BG1715	354000	671000	3	2	14	78	2	1	0	0
BG1717	355000	671000	3	1	13	80	2	1	0	0
BG1719	356000	671000	3	1	12	81	1	0	0	0
BG1721	357000	671000	5	2	22	69	0	1	0	0
BG1723	358000	671000	1	2	13	81	0	1	1	0
BG1725	359000	671000	5	2	18	73	2	1	0	0

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SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG1727	360000	671000	5	3	18	71	2	1	0	0
BG1729	361000	671000	4	3	20	70	2	1	0	0
BG1731	363500	671000	10	7	19	63	0	1	0	0
BG1733	364500	671000	4	8	11	74	2	1	0	0
BG1801	347000	672000	3	3	64	24	1	1	1	3
BG1803	348000	672000	7	2	25	62	3	1	0	0
BG1805	349000	672000	3	1	12	82	1	1	0	0
BG1807	350000	672000	5	1	14	78	1	1	0	0
BG1809	351000	672000	8	1	19	65	4	2	0	0
BG1811	352000	672000	2	2	8	84	0	1	3	0
BG1813	353000	672000	4	2	20	71	2	1	0	0
BG1815	354000	672000	7	2	19	71	1	0	0	0
BG1817	355000	672000	5	2	17	73	3	1	0	0
BG1819	356000	672000	3	2	15	77	1	1	1	0
BG1821	357000	672000	2	1	14	79	2	2	0	0
BG1823	358000	672000	2	1	6	91	0	0	0	0
BG1825	359000	672000	3	2	9	83	2	1	0	0
BG1827	360000	672000	5	2	15	75	2	0	0	0
BG1829	361000	672000	1	2	18	73	3	2	0	0
BG1833	364500	672000	4	5	13	78	0	0	0	0
BG1901	347000	672998	5	3	76	13	1	1	1	0
BG1903	348000	672998	6	2	14	75	1	2	0	0
BG1905	349000	672998	5	2	19	71	3	0	0	0
BG1907	350000	672998	6	2	18	70	2	1	0	0
BG1909	351000	672998	5	2	23	64	4	2	0	0
BG1911	352000	672998	6	2	12	72	2	1	4	0
BG1913	353000	673000	3	2	9	85	1	0	0	0
BG1915	354000	673000	3	2	5	89	2	0	0	0
BG1917	355000	673000	1	2	19	77	0	1	0	0
BG1919	356000	673000	2	2	16	76	3	1	0	0
BG1921	357000	673000	4	2	15	76	2	1	0	0
BG1923	358000	673000	4	2	19	72	2	1	0	0
BG1925	359000	673000	1	2	23	70	2	1	0	0
BG1927	360000	673000	8	2	22	65	2	1	0	0
BG1929	361000	673000	5	3	17	71	2	1	1	0
BG1931	362000	673000	5	4	21	68	1	1	0	0
BG1933	363500	672999	8	5	23	60	4	1	0	0
BG1935	364500	672999	7	5	20	53	1	0	3	10
BG2001	347000	674000	4	6	25	63	0	1	0	0
BG2003	349000	674000	5	3	11	78	0	0	2	0
BG2005	351000	674000	5	1	15	77	1	1	0	0

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SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG2007	353000	674000	3	1	16	78	0	1	0	0
BG2009	355000	674000	2	1	14	77	3	3	0	0
BG2011	357000	674000	4	2	18	58	2	1	4	12
BG2013	359000	674000	1	2	14	79	2	2	0	0
BG2015	361000	674000	7	3	22	67	1	1	0	0
BG2017	363000	674000	2	5	21	70	2	1	0	0
BG2019	365000	674000	8	5	35	47	4	1	0	0
BG2101	347000	675000	3	12	55	27	1	1	1	0
BG2103	349000	675000	5	2	19	71	2	1	0	0
BG2105	351000	675000	3	2	19	75	0	1	0	0
BG2107	353000	675000	1	2	17	75	3	2	0	0
BG2109	355000	675000	8	4	19	67	1	1	0	0
BG2111	357000	675000	3	2	10	82	2	1	0	0
BG2113	359000	675000	3	2	12	79	3	1	0	0
BG2115	361000	675000	6	3	13	77	1	0	0	0
BG2117	363000	675000	7	3	18	71	0	1	0	0
BG2119	365000	675000	6	2	10	80	1	1	0	0
BG2201	347000	676000	3	3	28	63	3	0	0	0
BG2203	349000	676000	9	1	30	57	1	1	0	0
BG2205	351000	676000	5	2	17	64	1	1	2	8
BG2207	353000	676000	2	2	16	63	2	1	0	14
BG2209	355000	676000	4	2	18	73	1	1	1	0
BG2211	357000	676000	5	2	11	78	2	2	0	0
BG2213	359000	676000	7	2	19	68	2	1	0	0
BG2215	361000	676000	3	4	17	73	2	1	0	0
BG2217	363000	676000	6	4	21	55	2	0	2	10
BG2219	365000	676000	1	11	74	11	1	1	1	0
BG2301	352000	676998	6	1	24	67	1	1	0	0
BG2303	354000	676998	3	3	18	75	0	1	0	0
BG2305	356000	677000	1	3	19	73	3	1	0	0
BG2307	358000	677000	3	2	12	80	2	1	0	0
BG2309	360000	677000	7	2	7	81	2	1	0	0
BG2311	362000	677000	3	1	13	80	2	1	0	0
BG2313	364000	676998	5	2	22	69	2	0	0	0
BG2315	366000	676998	6	3	32	52	1	1	5	0
BG2401	353000	678000	7	1	29	61	1	1	0	0
BG2403	355000	678000	3	0	23	71	2	1	0	0
BG2405	357000	678000	3	1	18	76	1	1	0	0
BG2407	359000	678000	5	2	18	72	2	1	0	0
BG2409	361000	678000	7	1	25	66	1	0	0	0
BG2411	363000	678000	5	1	21	58	1	1	3	10

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SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG2413	365000	678000	9	3	18	59	1	1	0	9
BG2414	366000	678000	7	4	26	61	1	1	0	0
BG2501	354000	679000	8	1	28	59	2	1	1	0
BG2503	356000	679000	3	1	12	83	1	0	0	0
BG2505	358000	679000	1	0	18	79	0	2	0	0
BG2507	360000	679000	2	2	16	78	1	1	0	0
BG2509	362000	679000	5	4	20	68	2	1	0	0
BG2511	365000	679000	4	8	17	69	1	1	0	0
BG2513	367000	679000	4	2	30	62	1	1	0	0
BG2601	354000	680000	7	1	30	54	1	1	1	5
BG2602	355000	680000	6	1	25	65	1	1	1	0
BG2604	357000	680000	5	2	19	71	2	1	0	0
BG2606	359000	680000	5	2	17	72	1	1	2	0
BG2608	361000	680000	4	3	12	78	2	0	1	0
BG2610	363000	680000	6	2	13	78	0	1	0	0
BG2611	365000	680000	8	2	25	61	1	1	2	0
BG2613	367000	680000	7	5	34	51	2	1	0	0
BG2614	368000	680000	7	4	28	59	1	1	0	0
BG2701	354000	681000	3	1	33	59	1	1	2	0
BG2702	355000	681000	6	2	42	45	3	2	0	0
BG2703	356000	681000	4	2	19	73	2	0	0	0
BG2704	357000	681000	3	2	19	73	1	1	1	0
BG2705	358000	681000	7	2	21	65	3	2	0	0
BG2706	359000	681000	8	4	19	65	2	2	0	0
BG2707	360000	681000	5	3	16	64	1	0	2	9
BG2709	362000	681000	6	4	18	71	0	1	0	0
BG2712	366000	681000	7	2	25	64	1	1	0	0
BG2714	368000	681000	6	6	22	54	1	2	3	6
BG2715	369000	681000	4	2	18	74	0	1	1	0
BG2801	360000	682000	7	4	31	43	1	2	0	12
BG2802	361000	682000	8	4	19	64	2	1	2	0
BG2804	363000	682000	8	4	26	58	3	1	0	0
BG2807	367000	682000	6	3	21	67	2	1	0	0
BG2809	369000	682000	7	5	22	63	1	2	0	0
BG2901	360000	683000	8	3	33	54	0	1	1	0
BG2904	364000	683000	7	2	26	63	1	1	0	0
BG2906	366000	683000	7	3	34	53	1	2	0	0
BG2908	368000	683000	9	4	26	59	1	1	0	0
BG3001	361000	684000	7	4	20	67	1	1	0	0
BG3002	362000	684000	6	6	27	59	1	1	0	0
BG3003	363000	684000	3	2	24	66	1	1	3	0
BG3005	367000	684000	9	3	26	60	1	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG3101	361000	685000	6	3	32	57	1	1	0	0
BG5801	350500	662000	5	3	20	70	1	1	0	0
BG6001	350000	663000	4	2	16	75	2	1	0	0
SBAFS01	345500	665000	2	1	59	34	1	1	2	0
SBAFS02	346800	670600	1	1	72	20	2	2	2	0
SBAFS03	347500	670600	8	5	39	42	1	1	4	0
SBAFS04	356000	674000	1	1	4	72	19	2	1	0
BG3201	379000	730000	13	1	55	30	0	1	0	0
BG3301	376000	729000	19	1	40	38	1	1	0	0
BG3302	377000	729000	21	1	44	31	2	1	0	0
BG3303	378000	729000	18	0	32	48	2	0	0	0
BG3304	379000	729000	19	0	29	51	1	0	0	0
BG3305	380000	729000	19	0	35	45	1	0	0	0
BG3401	375000	728000	11	0	19	69	1	0	0	0
BG3402	376000	728000	14	0	20	64	1	1	0	0
BG3403	377000	728000	18	0	20	60	1	1	0	0
BG3404	378000	728000	12	0	57	30	1	0	0	0
BG3501	375000	727000	17	0	23	59	0	1	0	0
BG3502	376000	727000	15	1	14	69	0	1	0	0
BG3503	377000	727000	17	1	20	60	1	1	0	0
BG3504	378000	727000	15	0	19	66	0	0	0	0
BG3505	379000	727000	15	0	22	62	1	0	0	0
BG3506	380000	727000	16	0	34	50	0	0	0	0
BG3507	381000	727000	17	1	68	11	0	0	0	3
BG3508	392000	727000	18	0	28	53	0	1	0	0
BG3509	393000	727000	22	0	31	47	0	0	0	0
BG3510	394000	727000	13	2	36	47	1	1	0	0
BG3601	374000	726000	15	1	13	71	1	1	0	0
BG3602	375000	726000	6	0	10	83	0	0	0	0
BG3603	376000	726000	8	1	9	81	1	0	0	0
BG3604	377000	726000	5	1	11	81	0	0	1	0
BG3605	378000	726000	14	1	12	72	1	0	0	0
BG3606	379000	726000	12	1	20	67	0	0	0	0
BG3607	380000	726000	8	1	10	81	0	0	0	0
BG3608	381000	726000	13	1	61	25	0	0	0	0
BG3610	391000	726000	7	2	10	80	0	0	0	0
BG3611	392000	726000	7	0	9	83	0	0	0	0
BG3612	393000	726000	8	0	10	82	0	0	0	0
BG3613	394000	726000	16	0	25	58	0	1	0	0
BG3701	373000	725000	9	1	26	63	0	1	0	0
BG3702	374000	725000	8	1	13	78	0	0	0	0
BG3703	375000	725000	10	1	17	70	1	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG3704	376000	725000	9	1	21	67	1	1	0	0
BG3705	377000	725000	15	0	17	67	0	1	0	0
BG3706	378000	725000	14	1	17	67	0	1	0	0
BG3707	379000	725000	12	1	17	69	1	1	0	0
BG3708	380000	725000	14	1	50	33	2	0	0	0
BG3709	381000	725000	12	1	59	27	1	0	0	0
BG3710	382000	725000	18	0	69	13	0	0	0	0
BG3712	390000	725000	16	1	34	48	0	1	0	0
BG3713	391000	725000	15	0	21	62	1	1	0	0
BG3714	392000	725000	16	0	17	65	1	1	0	0
BG3715	393000	725000	15	0	19	65	0	1	0	0
BG3801	373000	724000	14	1	26	50	0	1	1	7
BG3802	374000	724000	13	1	23	62	1	0	0	0
BG3803	375000	724000	15	1	19	65	0	0	0	0
BG3804	376000	724000	8	1	15	68	1	1	0	6
BG3805	377000	724000	8	1	13	78	0	0	0	0
BG3806	378000	724000	10	1	16	73	0	0	0	0
BG3807	379000	724000	11	1	20	66	1	1	0	0
BG3808	380000	724000	15	1	18	63	2	1	0	0
BG3809	381000	724000	9	1	11	77	1	1	0	0
BG3810	382000	724000	19	1	59	20	1	0	0	0
BG3811	383000	724000	22	1	66	11	0	0	0	0
BG3813	389000	724000	14	0	32	53	0	1	0	0
BG3814	390000	724000	16	1	55	26	1	1	0	0
BG3815	391000	724000	26	0	26	44	3	1	0	0
BG3816	392000	724000	18	2	23	55	2	0	0	0
BG3817	393000	724000	11	1	41	46	0	1	0	0
BG3901	372000	722000	13	1	20	64	1	0	1	0
BG3902	373000	722000	13	1	18	66	1	0	1	0
BG3903	374000	722000	12	1	14	72	1	0	0	0
BG3904	375000	722000	8	1	15	75	0	1	0	0
BG3905	376000	722000	9	0	10	76	0	1	0	3
BG3906	377000	722000	7	0	9	83	0	1	0	0
BG3907	378000	722000	6	0	9	83	1	1	0	0
BG3908	379000	722000	9	0	11	79	0	1	0	0
BG3909	380000	722000	6	0	24	69	0	1	0	0
BG3910	381000	722000	9	0	17	61	2	1	0	10
BG3911	382000	722000	11	0	13	74	1	1	0	0
BG3912	383000	722000	14	0	19	64	1	2	0	0
BG3913	384000	722000	13	0	15	70	1	1	0	0
BG3914	385000	722000	12	0	16	71	0	1	0	0
BG3915	386000	722000	13	0	20	62	4	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG3916	387000	722000	12	0	16	62	0	0	3	7
BG3917	388000	722000	16	0	16	58	1	0	0	7
BG3918	389000	722000	15	0	18	62	1	1	3	0
BG3919	390000	722000	19	0	19	59	2	1	0	0
BG3920	391000	722000	13	1	13	72	1	0	0	0
BG3921	392000	722000	16	1	21	60	1	1	0	0
BG3922	393000	722000	10	3	21	65	1	0	0	0
NBAFS05	374000	692000	7	0	15	74	3	1	0	0
NBAFS07	368700	718500	10	0	75	6	1	1	1	6
NBAFS08	378300	728500	14	0	37	47	1	1	0	0
NBAFS09	393500	721300	13	6	50	29	1	1	0	0
AMS01	370202	719065	27	4	31	34	2	2	0	0
BG4124	388000	718000	15	1	18	65	1	0	0	0
BG4128	392000	718000	18	1	20	60	0	1	0	0
BG4129	393000	718000	12	1	18	66	1	0	1	0
BG4130	394000	718000	27	2	29	40	1	1	0	0
BG4131	395000	718000	14	6	53	26	1	0	0	0
BG4201	365000	716000	7	1	36	54	0	1	0	0
BG4202	366000	716000	10	1	30	58	1	1	0	0
BG4203	367000	716000	13	1	18	67	0	1	0	0
BG4204	368000	716000	12	1	13	66	1	1	0	6
BG4206	370000	716000	8	0	14	77	0	1	0	0
AMS02	370148	719136	21	1	31	44	1	2	0	0
BG4001	370000	720000	11	1	43	37	1	0	3	4
BG4002	371000	720000	20	0	34	28	1	1	7	9
BG4003	372000	720000	12	0	19	68	1	0	0	0
BG4004	373000	720000	11	0	18	67	1	1	1	0
BG4006	375000	720000	9	0	20	69	0	2	0	0
BG4009	378000	720000	8	1	11	79	1	0	0	0
BG4013	382000	720000	6	1	15	78	0	1	0	0
BG4014	383000	720000	12	0	22	65	1	0	0	0
BG4015	384000	720000	6	0	9	83	1	0	0	0
BG4017	386000	720000	18	1	22	57	0	2	0	0
BG4021	390000	720000	16	1	21	60	1	1	0	0
BG4022	391000	720000	16	1	15	67	1	1	0	0
BG4023	392000	720000	19	1	25	54	1	0	0	0
BG4024	393000	720000	14	1	54	30	0	1	0	0
BG4025	394000	720000	9	1	27	61	0	1	1	0
BG4026	395000	720000	10	7	27	51	1	0	0	4
BG4101	365000	718000	7	3	49	36	1	0	0	4
BG4102	366000	718000	9	1	44	44	1	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG4103	367000	718000	11	1	41	45	1	1	0	0
BG4104	368000	718000	15	1	32	50	0	1	0	0
BG4108	372000	718000	13	0	25	61	1	0	0	0
BG4112	376000	718000	6	1	9	82	1	1	0	0
BG4114	378000	718000	9	1	19	71	0	1	0	0
BG4115	379000	718000	4	1	10	79	0	0	0	5
BG4116	380000	718000	13	1	21	63	1	1	0	0
BG4117	381000	718000	10	1	19	65	1	0	0	3
BG4118	382000	718000	11	1	22	63	3	0	0	0
BG4121	385000	718000	9	1	21	69	0	0	0	0
BG4210	374000	716000	11	1	14	73	0	1	0	0
BG4212	377000	716000	11	1	19	65	3	1	0	0
BG4213	380000	716000	7	1	18	73	0	1	0	0
BG4214	381000	716000	10	1	17	71	1	1	0	0
BG4215	382000	716000	7	1	14	77	1	0	0	0
BG4219	386000	716000	8	1	15	76	0	0	0	0
BG4222	389000	716000	18	2	21	56	2	1	0	0
BG4224	391000	716000	13	1	18	65	1	0	2	0
BG4225	392000	716000	9	1	16	69	4	1	0	0
BG4226	393000	716000	11	1	18	68	1	1	0	0
BG4227	394000	716000	11	1	19	62	0	0	0	6
BG4301	365000	714000	5	5	42	40	1	1	2	4
BG4302	366000	714000	8	1	23	67	1	0	0	0
BG4303	367000	714000	13	1	18	63	1	1	3	0
BG4304	368000	714000	7	1	15	75	1	1	0	0
BG4308	372000	714000	6	0	16	76	1	1	0	0
BG4312	376000	714000	9	1	17	71	0	2	0	0
BG4313	377000	714000	9	2	16	72	0	1	0	0
BG4314	378000	714000	8	1	14	75	1	1	0	0
BG4315	379000	714000	6	1	13	79	1	1	0	0
BG4316	380000	714000	10	1	14	74	1	0	0	0
BG4317	381000	714000	9	1	16	73	0	1	0	0
BG4320	384000	714000	5	2	9	83	1	0	0	0
BG4324	388000	714000	13	2	16	67	1	1	0	0
BG4326	390000	714000	18	3	63	16	0	0	0	0
BG4327	391000	714000	11	2	22	63	1	1	0	0
BG4328	392000	714000	11	1	17	64	1	1	0	5
BG4329	393000	714000	11	1	15	71	1	0	0	0
BG4401	365000	712000	9	3	20	65	2	1	0	0
BG4402	366000	712000	5	1	11	81	1	1	1	0
BG4403	367000	712000	4	1	17	77	0	1	0	0
BG4404	368000	712000	7	1	16	74	1	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG4406	370000	712000	6	0	23	71	0	0	0	0
BG4410	374000	712000	5	1	18	75	0	1	0	0
BG4413	377000	712000	5	1	16	78	0	1	0	0
BG4414	378000	712000	4	1	13	81	1	0	0	0
BG4415	379000	712000	3	1	11	84	1	0	0	0
BG4416	380000	712000	4	1	8	87	1	0	0	0
BG4418	382000	712000	8	1	12	70	1	1	1	6
BG4422	386000	712000	10	2	17	68	2	1	0	0
BG4425	389000	712000	11	4	45	39	1	0	0	0
BG4426	390000	712000	9	7	13	70	0	1	0	0
BG4427	391000	712000	9	6	18	65	1	0	0	0
BG4428	392000	712000	9	9	54	29	0	0	0	0
BG4501	364000	710000	1	1	60	33	1	2	2	0
BG4502	365000	710000	6	2	35	54	1	1	0	0
BG4503	366000	710000	9	1	22	67	0	1	0	0
BG4504	367000	710000	7	1	14	78	1	0	0	0
BG4506	369000	710000	7	0	12	76	2	1	2	0
BG4509	372000	710000	5	1	15	77	1	1	0	0
BG4513	376000	710000	4	0	9	84	1	0	1	0
BG4514	377000	710000	8	1	12	78	1	1	0	0
BG4515	378000	710000	9	1	12	76	2	0	0	0
BG4516	379000	710000	12	1	20	65	2	0	0	0
BG4517	380000	710000	10	2	16	70	1	1	0	0
BG4519	384000	710000	7	2	11	78	2	1	0	0
BG4520	385000	710000	6	2	15	76	0	1	0	0
BG4521	386000	710000	9	2	16	71	1	0	0	0
BG4522	387000	710000	7	3	11	78	1	0	0	0
BG4601	365000	708000	5	2	42	46	1	2	2	0
BG4602	366000	708000	15	1	29	50	0	1	2	0
BG4603	367000	708000	8	1	15	75	0	0	1	0
BG4604	368000	708000	10	1	21	67	0	1	0	0
BG4606	370000	708000	3	1	10	85	0	1	0	0
BG4609	373000	708000	2	0	3	94	0	0	0	0
BG4610	374000	708000	4	1	7	87	2	1	0	0
BG4611	375000	708000	5	1	14	78	1	1	0	0
BG4612	376000	708000	6	1	14	78	2	0	0	0
BG4614	378000	708000	5	1	10	82	1	1	0	0
BG4616	380000	708000	6	2	14	77	0	1	0	0
BG4617	384000	708000	11	3	18	67	0	0	1	0
BG4619	386000	708000	8	5	23	59	1	1	2	0
BG4620	387000	708000	5	4	14	74	1	1	2	0
BG4621	388000	708000	10	5	22	60	2	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG4622	389000	708000	5	11	27	54	0	0	2	0
BG4701	366000	706000	6	0	37	50	1	0	1	4
BG4702	367000	706000	7	1	13	78	1	0	1	0
BG4703	368000	706000	5	0	8	86	1	1	0	0
BG4704	369000	706000	1	0	3	96	0	0	0	0
BG4705	370000	706000	2	0	8	83	1	0	0	5
BG4706	371000	706000	5	0	9	83	0	0	2	0
BG4707	372000	706000	4	0	10	84	1	0	0	0
BG4708	373000	706000	4	0	7	83	1	0	0	4
BG4709	374000	706000	1	0	16	80	1	2	0	0
BG4710	375000	706000	8	0	14	75	2	1	0	0
BG4711	376000	706000	5	0	18	76	0	1	0	0
BG4712	377000	706000	3	0	5	92	0	0	0	0
BG4713	378000	706000	4	0	6	89	1	0	0	0
BG4714	379000	706000	10	5	20	62	2	1	0	0
BG4715	384000	706000	5	9	40	42	0	1	3	0
BG4801	367000	704000	7	2	19	72	0	1	0	0
BG4802	368000	704000	6	0	14	79	0	1	0	0
BG4803	369000	704000	10	1	18	69	1	1	0	0
BG4804	370000	704000	10	1	18	69	1	1	0	0
BG4805	371000	704000	8	1	16	72	3	0	0	0
BG4806	372000	704000	5	1	18	76	0	0	0	0
BG4807	373000	704000	5	0	19	75	0	1	0	0
BG4808	374000	704000	7	1	18	71	3	0	0	0
BG4809	375000	704000	6	1	16	75	1	0	0	0
BG4810	376000	704000	8	0	13	77	1	1	0	0
BG4811	377000	704000	5	1	11	80	0	1	2	0
BG4812	378000	704000	6	1	6	86	1	0	0	0
BG4813	381000	704000	12	15	59	14	0	0	0	0
BG4814	382000	704000	8	3	14	72	2	1	0	0
BG4815	383000	704000	7	4	15	71	2	1	0	0
BG4902	368000	702000	7	0	17	74	0	2	0	0
BG4904	372000	702000	8	1	7	82	1	1	0	0
BG4908	376000	702000	7	1	11	76	1	1	3	0
BG4912	380000	702000	7	2	13	73	1	2	2	0
BG5007	374000	700000	7	2	21	69	1	0	0	0
BG5011	378000	700000	7	2	19	69	1	2	0	0
BG5014	381000	700000	8	2	43	37	1	1	1	7
BG5101	368000	698000	6	1	18	72	1	1	1	0
BG5105	372000	698000	9	1	20	68	2	0	0	0
BG5109	376000	698000	10	1	21	65	2	1	0	0
BG5113	380000	698000	6	3	24	65	1	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
BG5202	370000	696000	9	1	16	72	1	1	0	0
BG5206	374000	696000	7	1	16	74	1	1	0	0
BG5210	378000	696000	9	2	19	52	1	1	3	13
BG5303	372000	694000	10	0	10	78	1	1	0	0
BG5307	376000	694000	8	2	15	63	1	2	0	9
BG5311	380000	694000	6	2	26	55	1	1	3	6
BG5407	378000	692000	9	2	12	73	2	2	0	0
BG5502	374000	690000	8	2	22	66	1	1	0	0
BG5504	376000	690000	8	5	21	64	1	1	0	0
ALT002	366908	691259	5	15	46	23	2	2	0	7
ALT004	367579	690242	3	1	65	18	2	2	0	10
ALT007	368453	688997	4	1	11	83	0	1	0	0
ALT011	369576	687342	1	3	25	69	1	1	0	0
ALT015	370564	685914	7	5	42	44	1	1	0	0
ALT018	371003	685292	7	5	30	56	1	1	0	0
ALT022	373887	688169	11	3	35	43	1	1	0	6
ALT027	372789	689749	6	3	20	69	1	0	0	0
ALT030	371933	690961	7	1	20	72	0	0	0	0
ALT034	370799	692579	2	0	40	55	2	1	0	0
ALT037	369950	693817	2	1	19	73	1	1	2	0
ALT041	368807	695469	1	1	49	46	1	2	0	0
ALT044	367957	696691	6	1	23	68	1	1	0	0
ALT048	367829	695938	2	1	29	65	1	1	0	0
ALT051	368671	694702	1	1	25	71	1	1	0	0
ALT056	367820	695085	4	1	37	55	2	1	0	0
ALT060	369256	693069	4	1	43	48	1	2	1	0
ALT063	370416	691435	1	1	13	83	1	0	0	2
ALT067	371845	689412	8	4	32	53	1	2	0	0
ALT071	372264	687182	4	12	32	50	1	1	0	0
ALT075	367468	694896	2	1	63	22	1	2	2	7
ALT078	369832	690467	1	1	31	58	1	1	0	7
ALT081	368356	690754	0	2	66	27	1	2	2	0
ALT084	366753	689667	6	1	38	42	1	2	2	8
ALT089	367440	689539	6	1	44	47	1	2	0	0
ALT093	370000	691162	3	1	41	50	4	1	0	0
ALT097	370124	688237	7	1	23	67	1	1	0	0
ALT101	371393	686372	9	4	44	41	1	1	0	0
ALT102	370498	684562	6	4	47	37	1	1	3	0
ALT103	370147	685043	8	7	34	49	2	2	0	0
ALT104	369699	685632	5	7	35	51	1	1	0	0
ALT105	369096	686431	3	5	13	78	1	0	0	0
ALT106	368502	687235	5	3	16	75	0	0	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
ALT107	367895	688031	9	2	31	56	1	1	0	0
ALT108	367597	688429	8	2	30	57	1	2	0	0
ALT109	367299	688829	8	2	34	54	1	1	0	0
ALT110	366993	689226	3	0	34	58	1	2	2	0
ALT111	367675	686710	7	8	52	32	1	1	0	0
ALT112	367968	686307	6	4	19	70	1	0	0	0
ALT113	368247	685903	6	3	17	72	1	1	0	0
ALT114	368523	685463	7	5	17	68	2	1	0	0
ALT115	368800	685064	0	5	16	78	1	1	0	0
ALT116	369079	684639	10	6	43	39	2	1	0	0
ALT117	369359	684240	20	3	34	40	0	0	0	3
ALT118	369627	683835	5	2	34	53	1	0	0	5
ALT119	369908	683410	6	3	28	57	3	2	0	0
ALT120	370188	682982	4	8	29	45	1	1	4	9
ALT121	370464	682573	4	24	21	44	1	1	5	0
ALT122	370743	682157	3	19	14	50	1	1	3	8
ALT123	370924	681893	4	23	33	28	0	3	0	9
ALT124	370881	682902	5	5	25	61	1	1	2	0
ALT125	370607	683284	1	5	34	57	2	1	0	0
ALT126	370265	683728	2	5	36	54	1	1	0	0
ALT127	370099	684161	8	5	30	46	2	2	0	8
ALT128	370825	684807	6	6	34	50	1	1	3	0
ALT129	370488	685270	10	5	54	24	1	1	0	6
ALT130	371340	685773	5	3	62	20	2	1	0	7
ALT131	371068	686148	3	7	38	49	1	1	0	3
ALT132	370791	686554	4	5	42	38	1	1	2	7
ALT133	367399	685362	8	2	62	24	2	2	0	0
ALT134	367641	685001	6	4	24	64	1	1	0	0
ALT144	369302	689478	4	1	14	81	0	1	0	0
ALT145	369859	688640	2	3	24	70	2	0	0	0
ALT146	370398	687804	4	5	22	67	1	1	0	0
ALT147	376307	688509	20	2	41	34	0	0	0	3
ALT148	376267	688824	4	6	59	20	1	1	2	7
ALT149	376191	689154	16	3	46	31	0	0	0	4
ALT150	376180	689416	9	3	40	43	2	1	2	0
ALT151	375452	689225	3	3	36	56	1	1	2	0
ALT152	374761	689169	13	2	36	40	1	1	0	8
ALT153	374926	688872	6	3	58	27	1	1	3	0
ALT154	375242	688617	0	1	33	59	0	1	0	6
ALT155	375518	688408	8	1	31	51	1	1	1	6
ALT156	374953	688112	6	4	50	33	1	1	0	5
ALT157	374734	688297	8	5	65	20	1	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
ALT158	374386	688555	9	3	50	35	1	1	1	0
ALT159	374047	688904	3	3	20	66	1	1	0	6
ALT160	374588	687934	16	2	45	36	0	0	1	0
ALT161	374454	688087	10	2	41	46	1	0	0	0
ALT162	374186	688263	6	2	43	44	2	1	2	0
ALT163	373817	688635	2	1	16	79	1	0	1	0
ALT164	373320	688463	5	1	45	43	2	1	3	0
ALT165	373662	688153	9	2	37	41	1	2	0	8
ALT166	373929	687758	1	1	15	82	0	0	0	0
ALT167	373541	687331	6	5	49	36	1	1	2	0
ALT168	373336	687658	22	4	35	38	1	1	0	0
ALT169	373220	687941	1	1	9	88	0	0	0	0
ALT170	372819	687709	5	4	38	45	1	1	0	6
ALT171	373020	687459	6	4	41	40	2	1	0	6
ALT172	373141	687271	21	12	36	25	1	1	0	4
ALT173	372709	687025	2	4	30	61	1	1	2	0
ALT174	372462	687367	9	4	47	38	1	1	0	0
ALT175	372148	687839	4	3	50	35	1	1	0	6
ALT176	371619	687458	5	4	38	51	1	1	0	0
ALT177	372013	687078	6	4	31	50	1	1	0	7
ALT178	372224	686791	0	2	38	58	2	0	0	0
ALT179	372360	686508	4	0	24	70	1	1	0	0
ALT180	371658	686564	4	5	47	35	1	1	1	6
ALT181	371494	686853	5	7	49	31	1	1	0	6
ALT182	371323	687161	40	2	33	21	1	0	0	3
ALT183	371072	687655	6	4	35	52	1	1	0	0
ALT184	370107	685775	3	6	13	77	1	0	0	0
ALT185	369722	684691	4	4	19	72	1	0	0	0
ALT186	375778	688783	5	4	49	36	0	1	0	5
ALT187	376972	688609	3	8	56	25	1	1	1	5
ALT188	376882	689127	3	0	16	75	0	0	1	3
ALT189	376776	689662	7	4	30	54	3	2	0	0
ALT190	377276	689844	5	5	17	71	1	1	0	0
ALT191	377409	689322	8	4	28	53	0	0	0	7
ALT192	377497	688755	10	6	61	20	2	2	0	0
ALT193	378030	689001	1	7	40	50	2	2	0	0
ALT194	377906	689521	9	8	33	40	1	2	0	7
ALT195	377793	690070	3	4	17	73	1	1	1	0
ALT196	378549	689754	5	6	34	52	2	1	0	0
ALT197	378739	689298	3	2	42	50	2	2	0	0
ALT198	379221	689662	6	4	42	46	1	1	0	0
ALT199	379132	690007	7	5	27	58	1	1	0	0

Appendix A. Mineralogical composition of surficial sediments in Lake Abaya (vol. %)
(Continued)

SampleID	Easting	Northing	Quartz	Calcite	Feldspar	Clay	Hematite	Magnetite	Pyrite	Hornblende
ALT200	379677	690091	3	4	26	66	1	1	0	0
ALT201	368387	693624	2	1	36	55	1	1	1	3
ALT202	369269	693837	2	0	34	61	2	1	0	0
ALT203	369551	693425	8	0	34	56	1	1	0	0
ALT204	369870	692998	3	0	32	62	1	1	1	0
ALT205	370153	692507	3	0	47	34	2	2	0	12
ALT206	370481	692001	3	0	39	50	2	1	0	5
ALT207	370860	691466	5	0	36	49	2	1	0	7
ALT208	371242	690986	8	0	25	65	1	1	0	0
ALT209	370641	691022	5	0	25	61	2	1	0	6
ALT210	370399	690728	4	0	30	56	1	1	0	8
ALT211	369400	690155	5	0	25	68	1	1	0	0
ALT212	370127	690031	4	1	27	66	1	1	0	0
ALT213	369655	690012	5	0	27	66	1	1	0	0
ALT214	369237	690401	1	0	30	67	1	1	0	0
ALT215	368505	690566	2	1	57	33	2	3	2	0
ALT216	367764	690694	1	0	57	32	2	2	1	5
ALT217	368930	690853	3	0	54	34	2	1	1	5
ALT218	368754	691146	1	0	59	36	2	1	1	0
ALT219	369393	691130	3	0	47	40	1	2	0	7
ALT220	369830	691401	2	0	58	36	2	2	0	0
ALT221	370114	691867	0	0	53	34	2	2	1	8
ALT222	369755	691999	2	0	59	29	2	2	0	6
ALT223	369649	692470	1	0	40	57	1	1	0	0
ALT224	369528	692072	2	0	69	25	1	2	1	0
ALT225	369123	692676	1	0	45	49	2	2	1	0
ALT226	369451	692874	3	1	54	32	2	2	0	6
ALT227	369694	693223	3	0	28	67	1	1	0	0
ALT228	369405	693682	1	0	26	71	1	1	0	0
ALT229	369095	693292	2	0	52	43	1	2	0	0
ALT230	368889	693111	2	0	40	53	1	2	2	0
ALT231	368806	693739	2	1	40	52	1	2	2	0
ALT232	369089	694075	4	0	27	67	1	1	0	0
ALT233	368791	694538	5	1	32	59	2	1	0	0
ALT234	368521	694130	2	0	58	27	2	1	3	7
ALT235	368114	693963	2	1	63	29	2	1	2	0
ALT236	367866	694263	2	0	51	37	1	1	2	6
ALT237	368208	694532	2	0	64	30	2	2	0	0
ALT238	367908	694928	4	0	31	63	1	1	0	0
ALT239	367560	694693	3	2	69	20	2	3	1	0

Appendix B. Contour plots of water quality parameters showing depth profiles at fixed monitoring stations vs. Julian days of sampling.

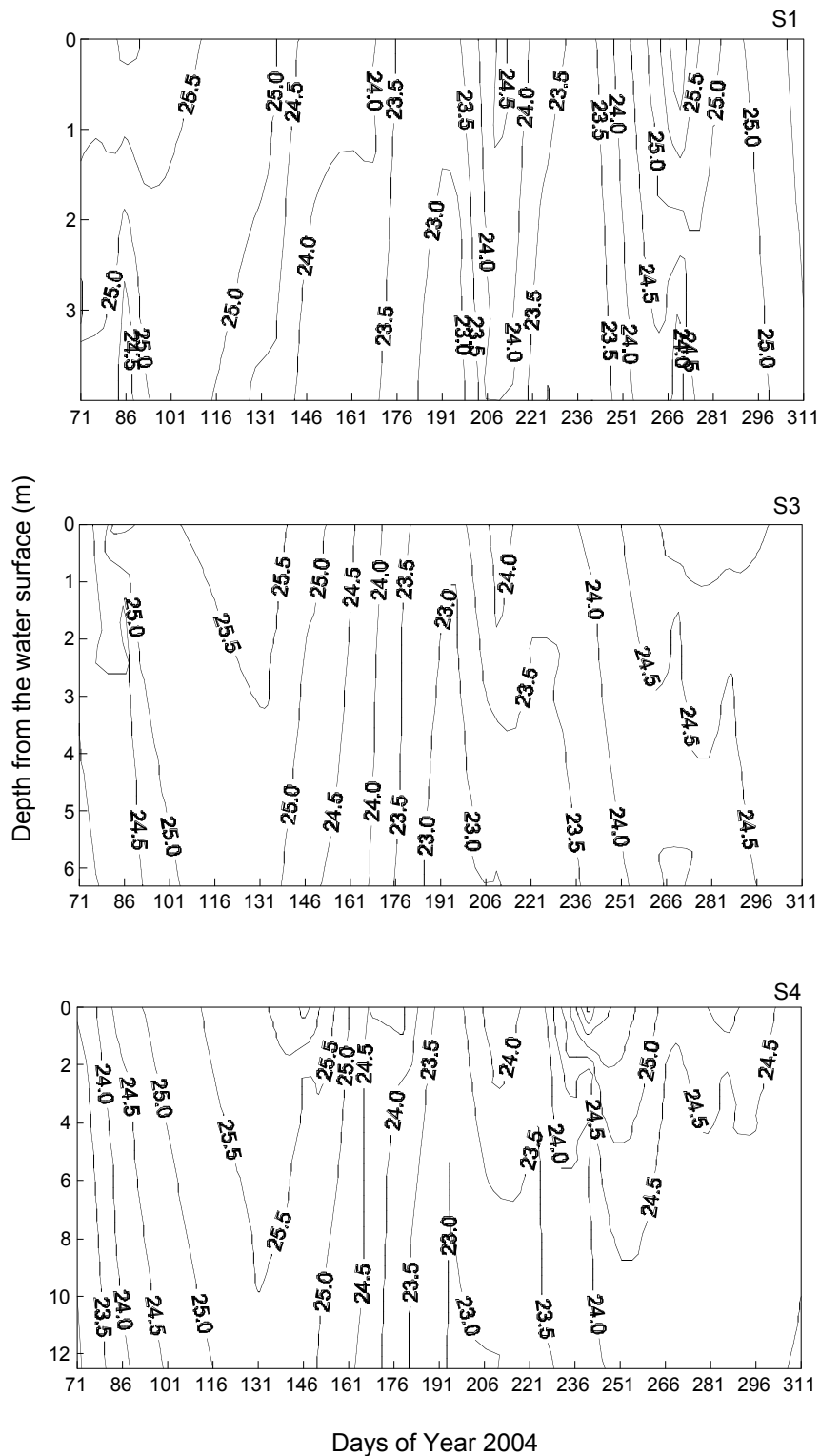


Figure B1. Temperature ($^{\circ}\text{C}$) fields measured bimonthly at fixed monitoring stations in the south basin.

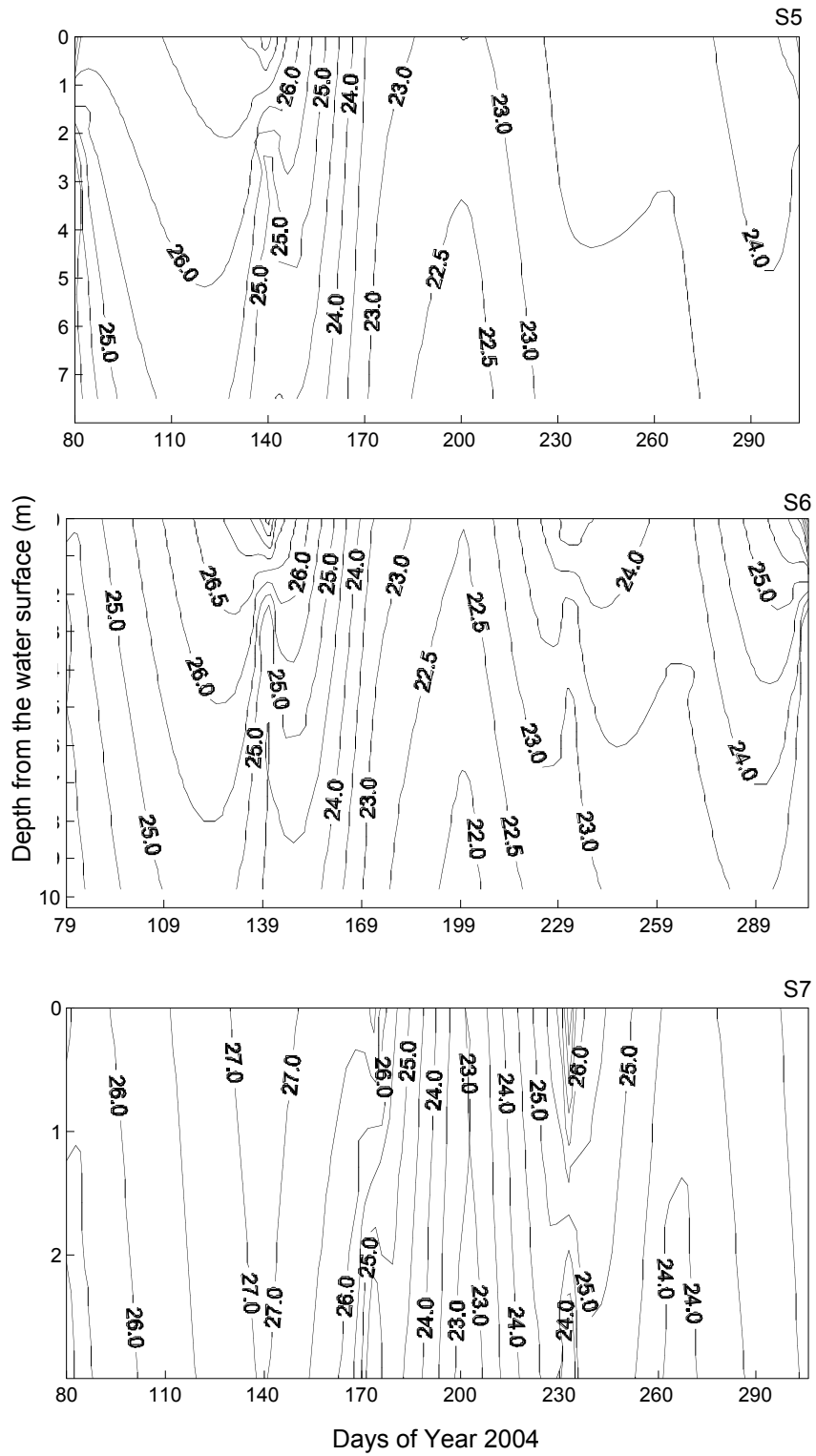


Figure B2. Temperature ($^{\circ}\text{C}$) fields measured monthly at fixed monitoring stations in the north basin.

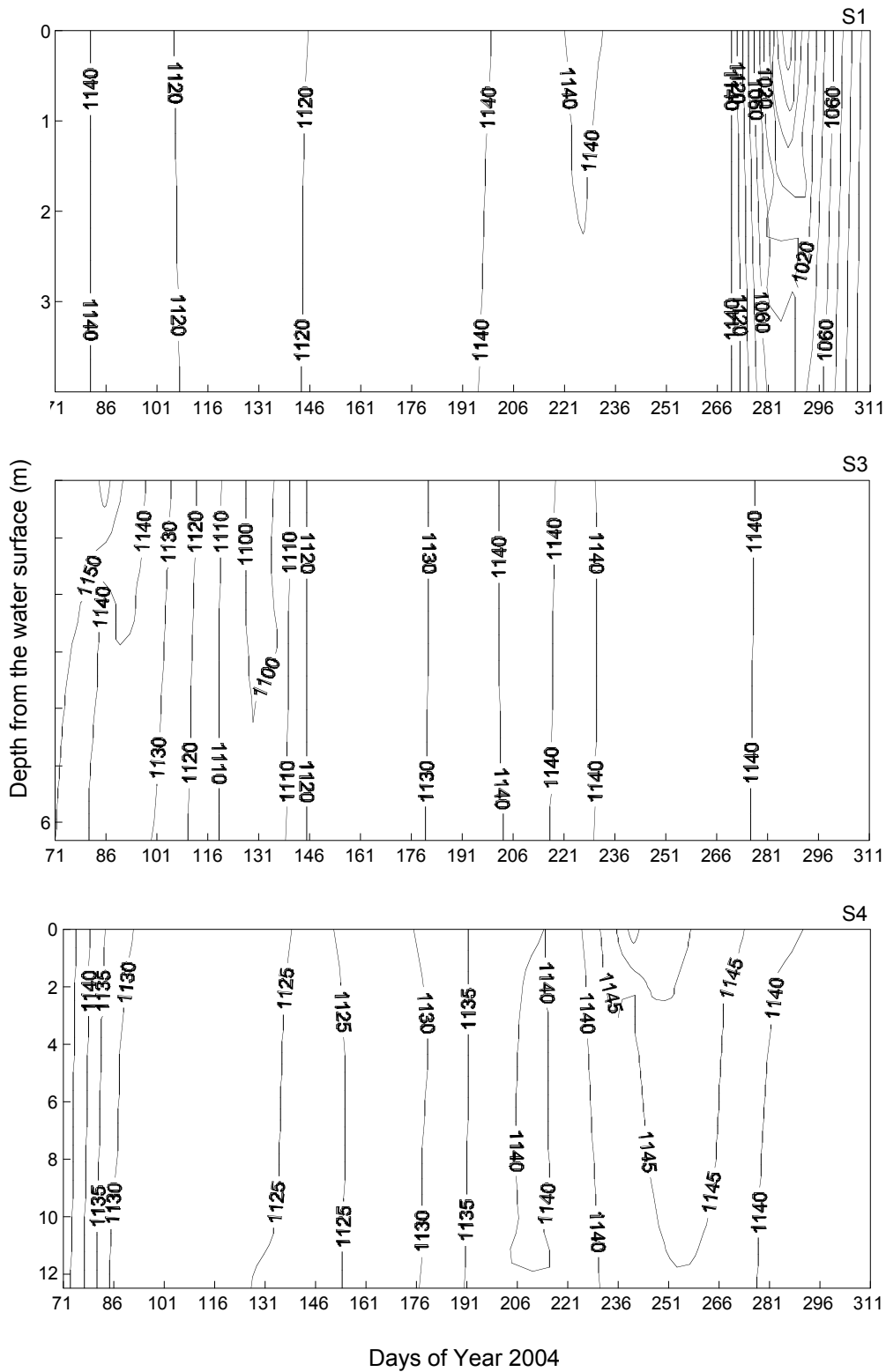


Figure B3. Electrical conductivity ($\mu\text{S/cm}$) fields measured bimonthly at fixed monitoring stations in the south basin.

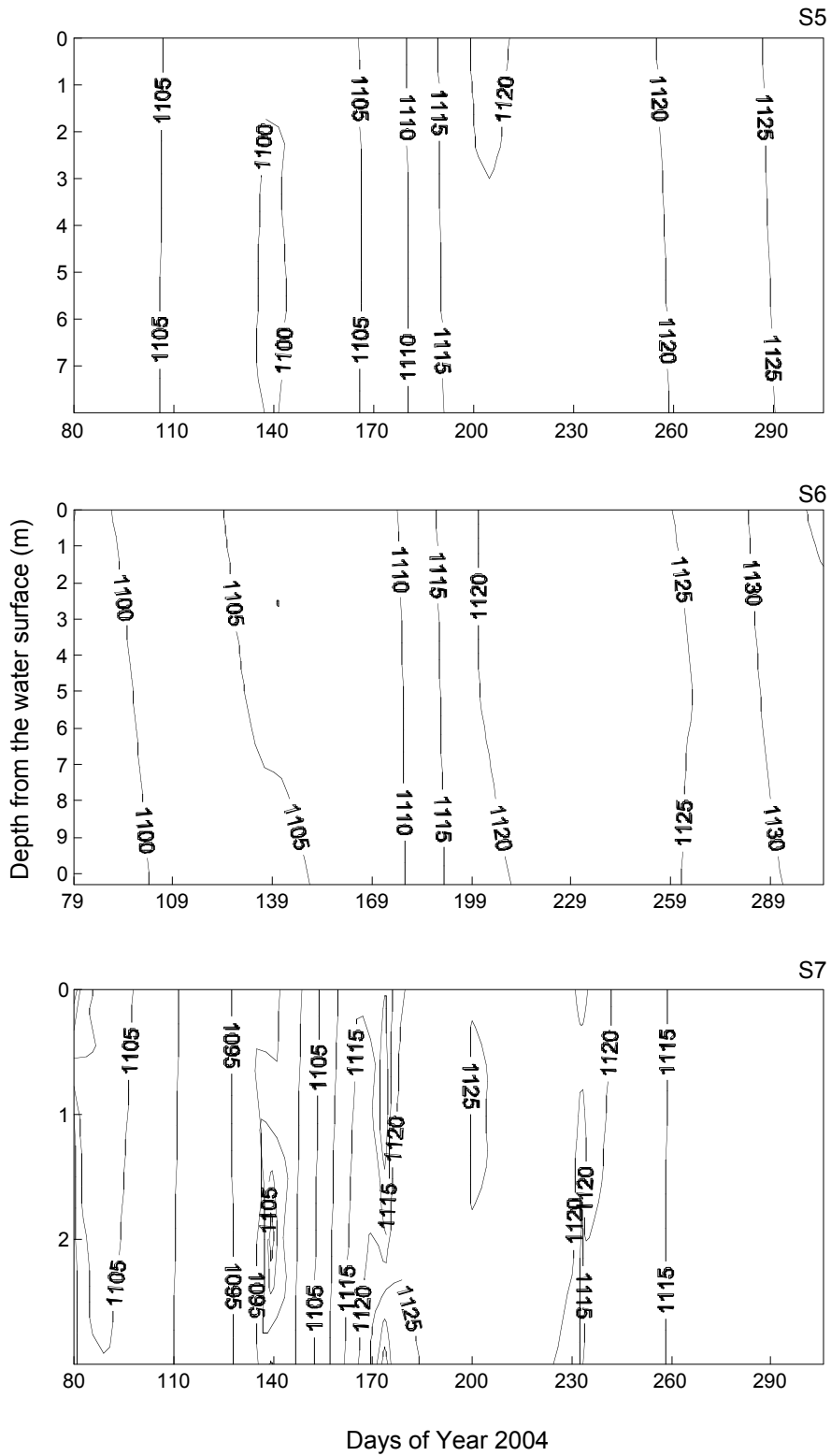


Figure B4. Electrical conductivity ($\mu\text{S/cm}$) profiles measured monthly at fixed monitoring stations in the north basin.

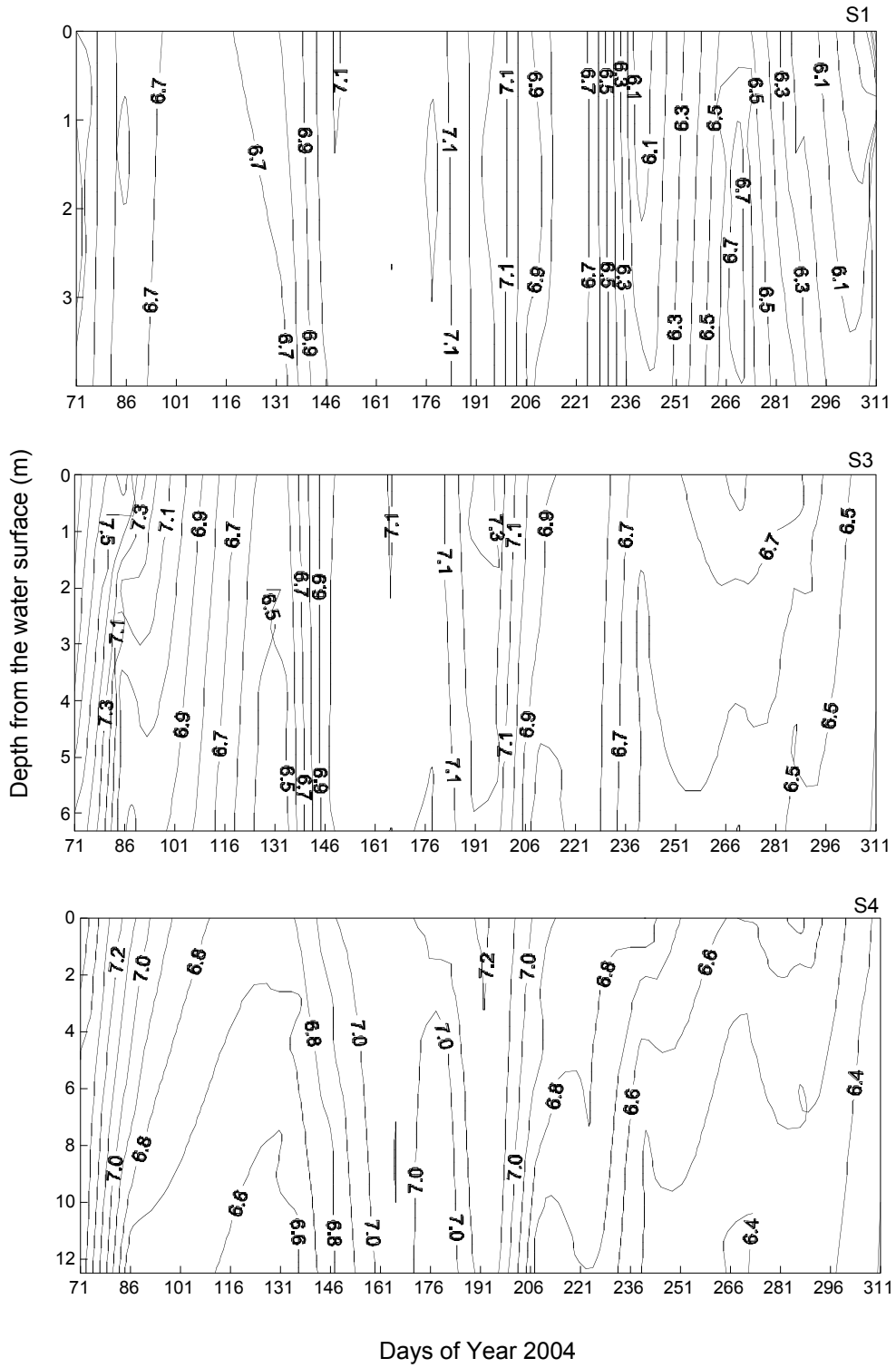


Figure B5. Dissolved oxygen (mgL^{-1}) fields measured bimonthly at fixed monitoring stations in the south basin.

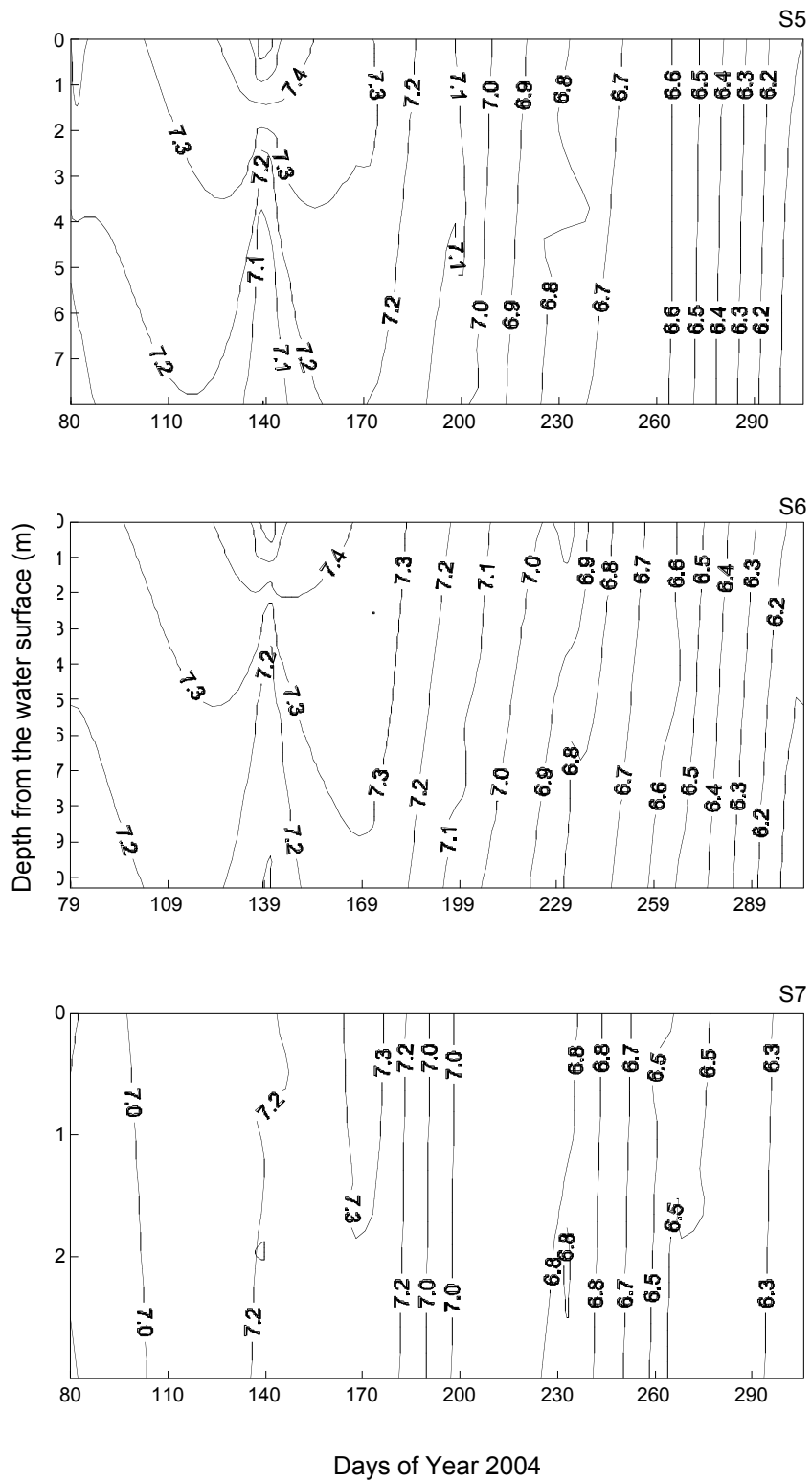


Figure B6. Dissolved oxygen (mgL⁻¹) fields measured monthly at fixed monitoring stations in the north basin.

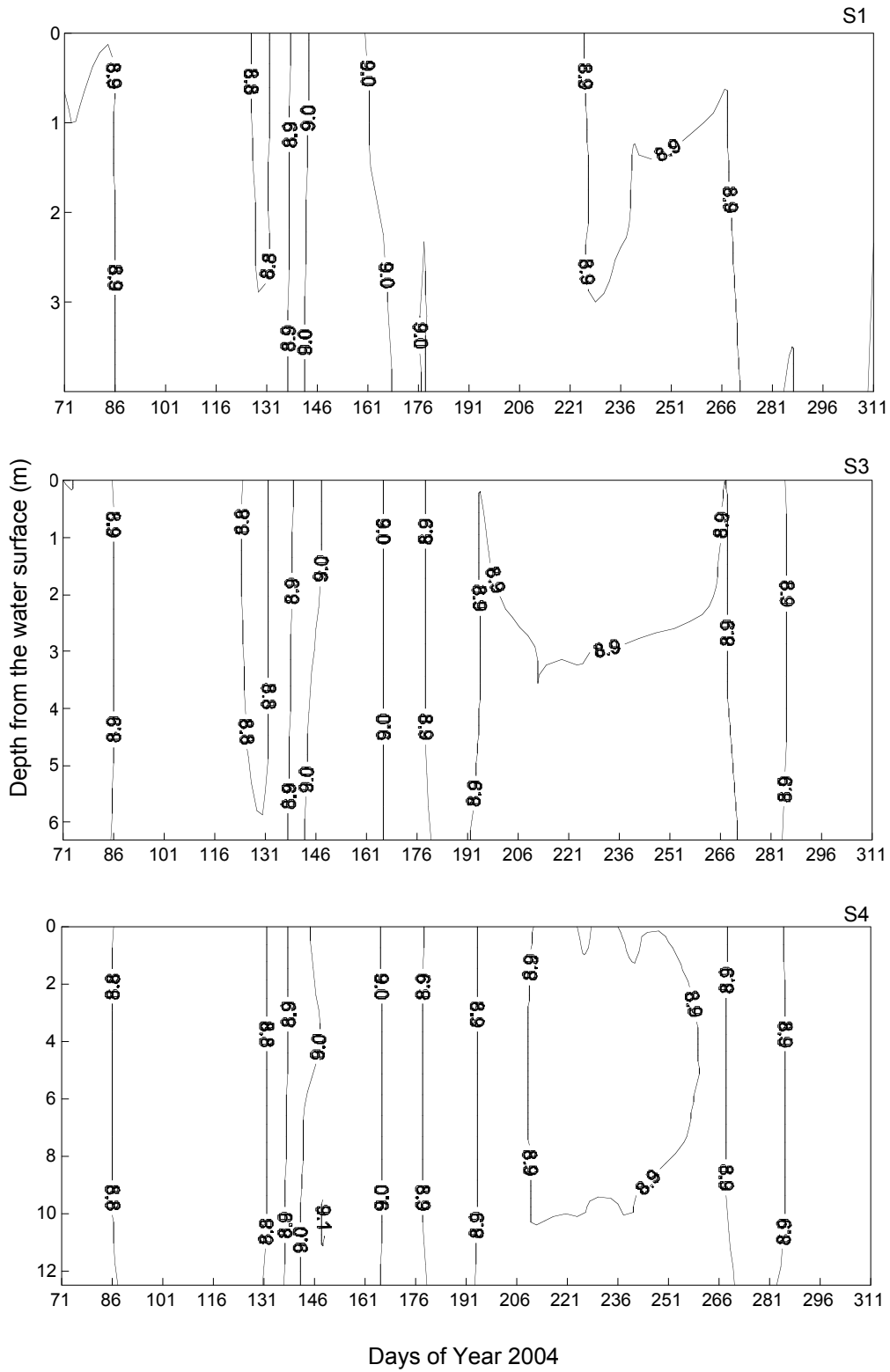


Figure B7. pH profiles measured bimonthly at fixed monitoring stations in the south basin.

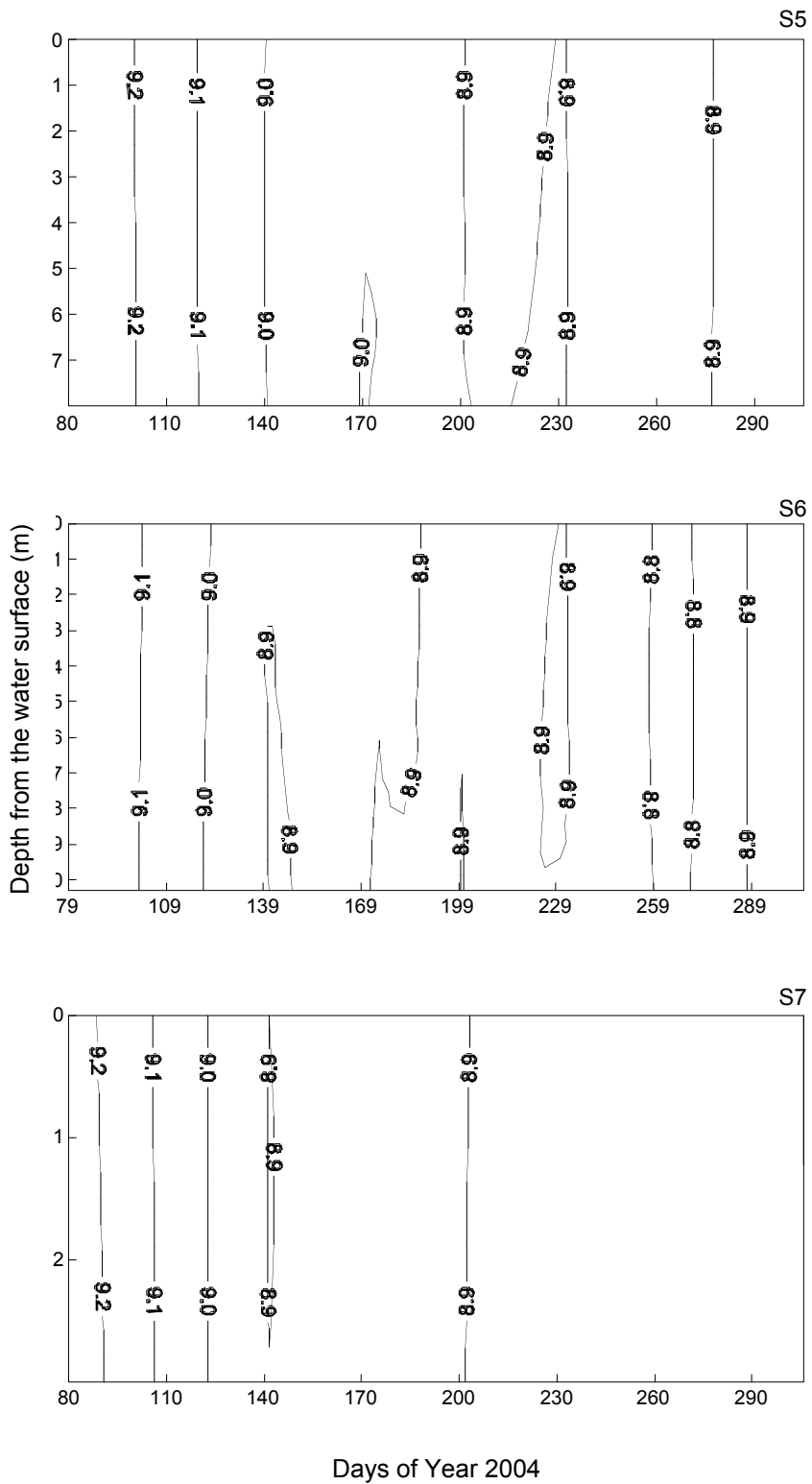


Figure B8. pH profiles measured monthly at fixed monitoring stations in the north basin.

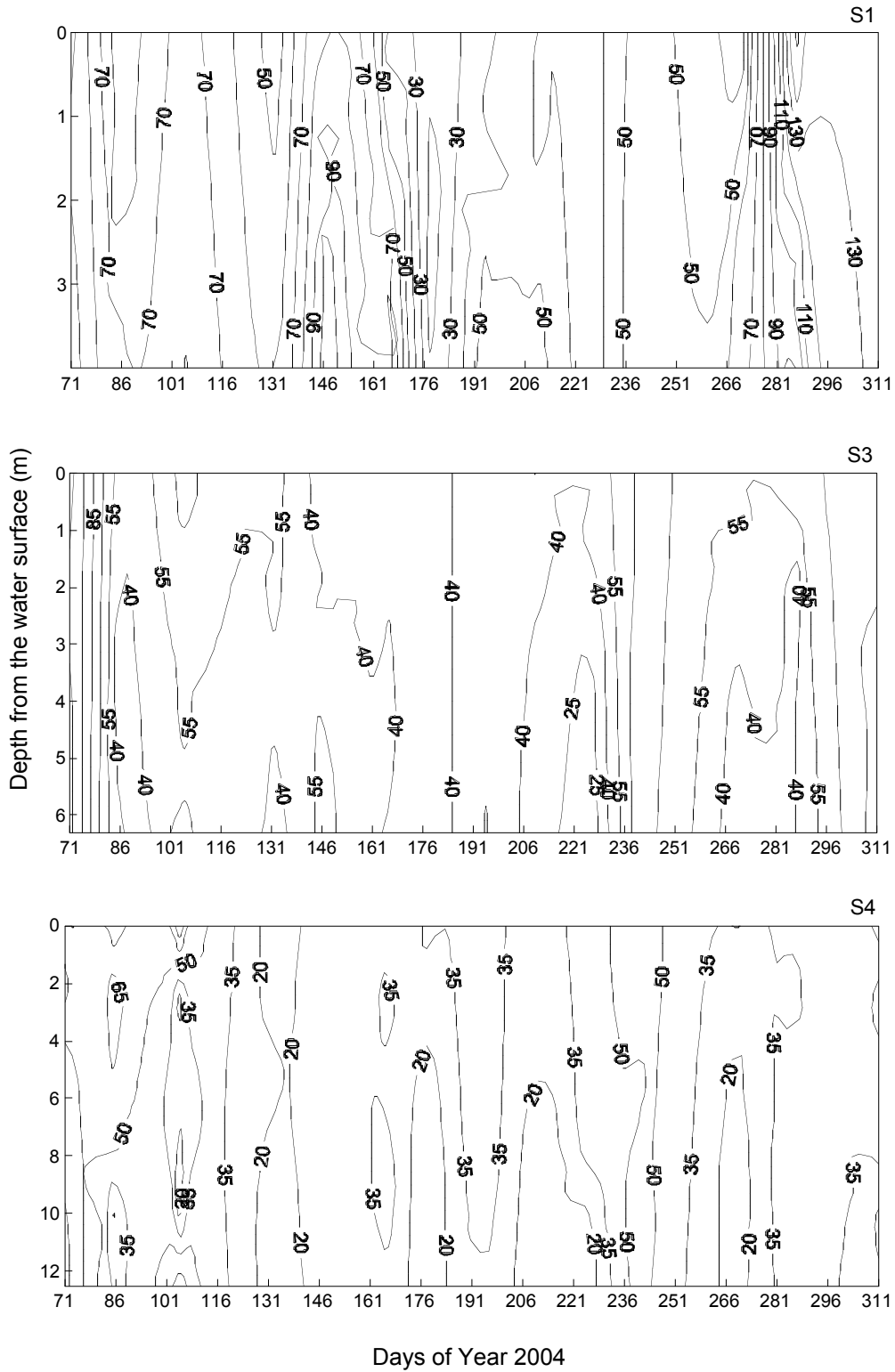


Figure B9. Total suspended solids concentration (mgL^{-1}) fields measured bimonthly at fixed monitoring stations in the south basin.

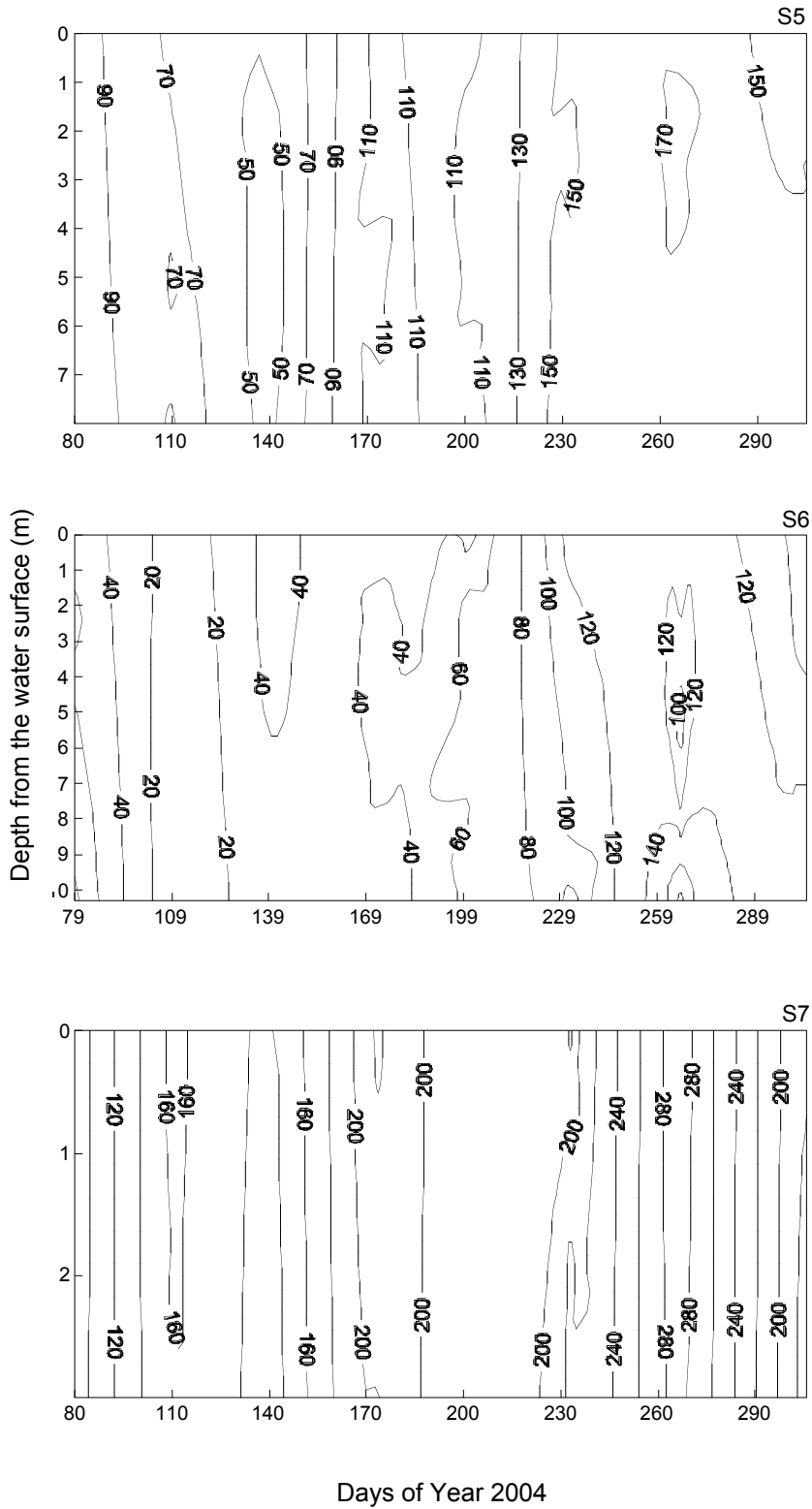


Figure B10. Total suspended solids concentration (mgL^{-1}) fields measured monthly at fixed monitoring stations in the north basin.

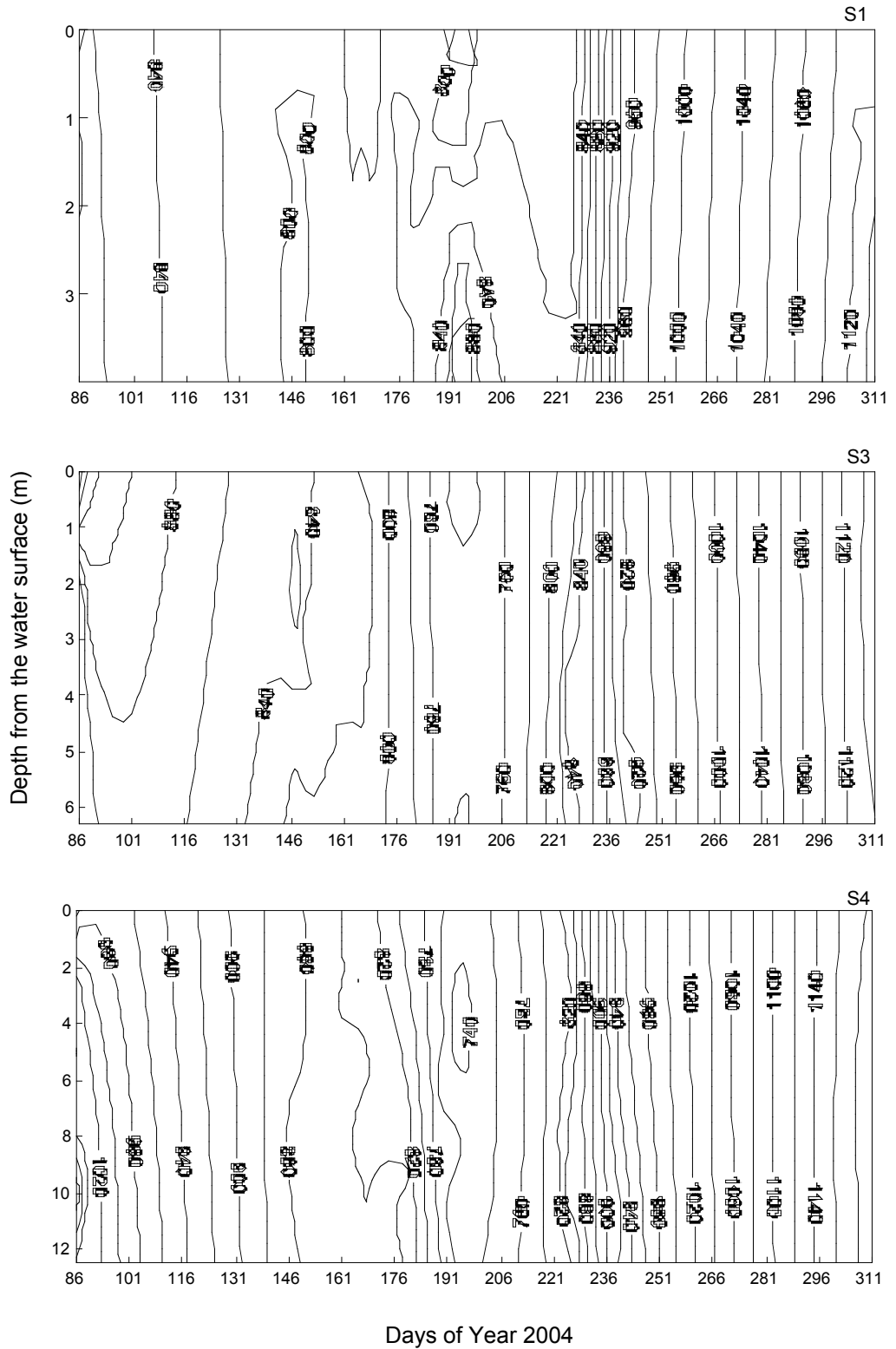


Figure B11. Total dissolved solids concentration (mgL^{-1}) fields measured bimonthly at fixed monitoring stations in the south basin.

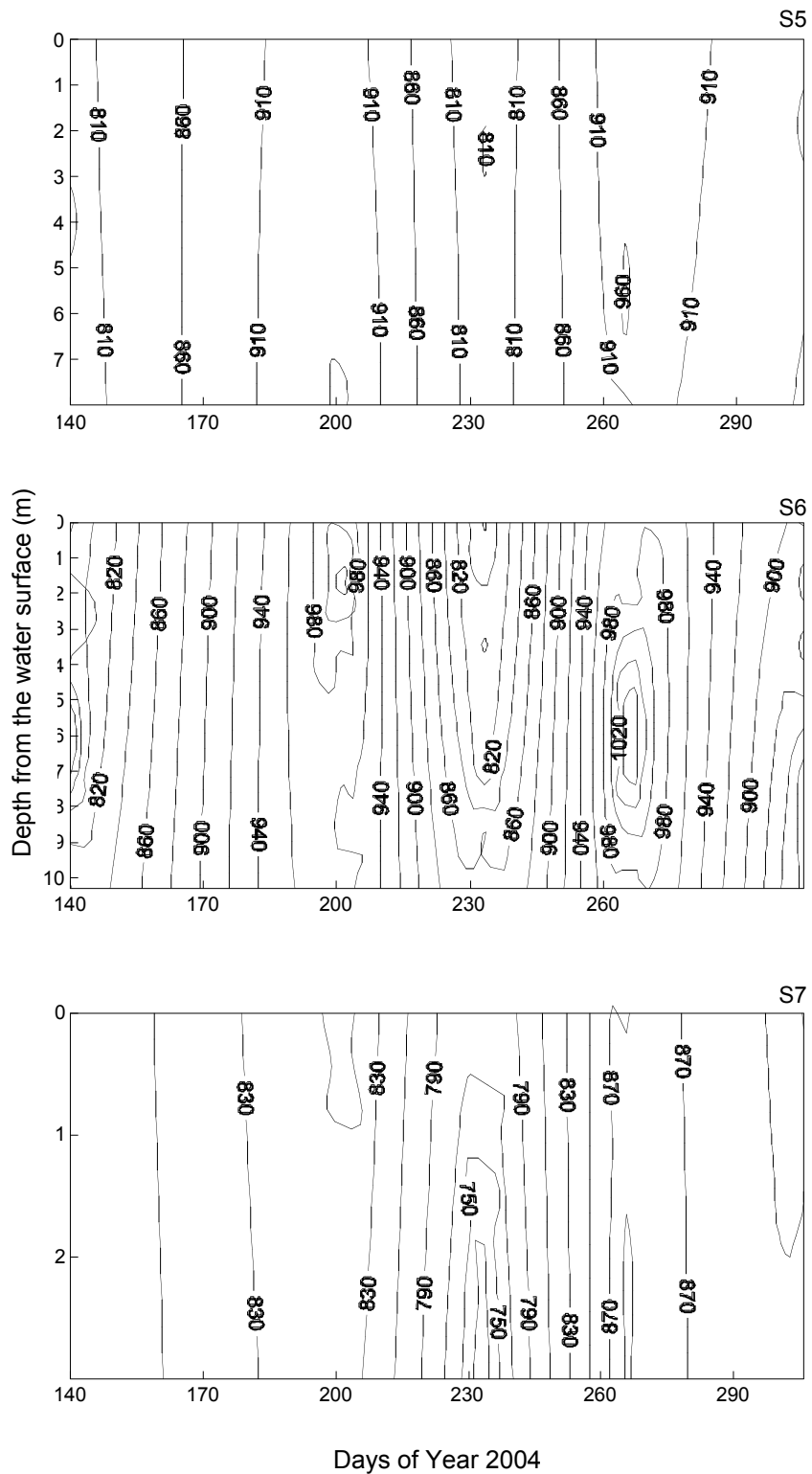


Figure B12. Total dissolved solids concentration (mg.L⁻¹) fields measured monthly at fixed monitoring stations in the north basin.

Appendix C. Variations in water quality parameters at fixed monitoring stations during sampling period.

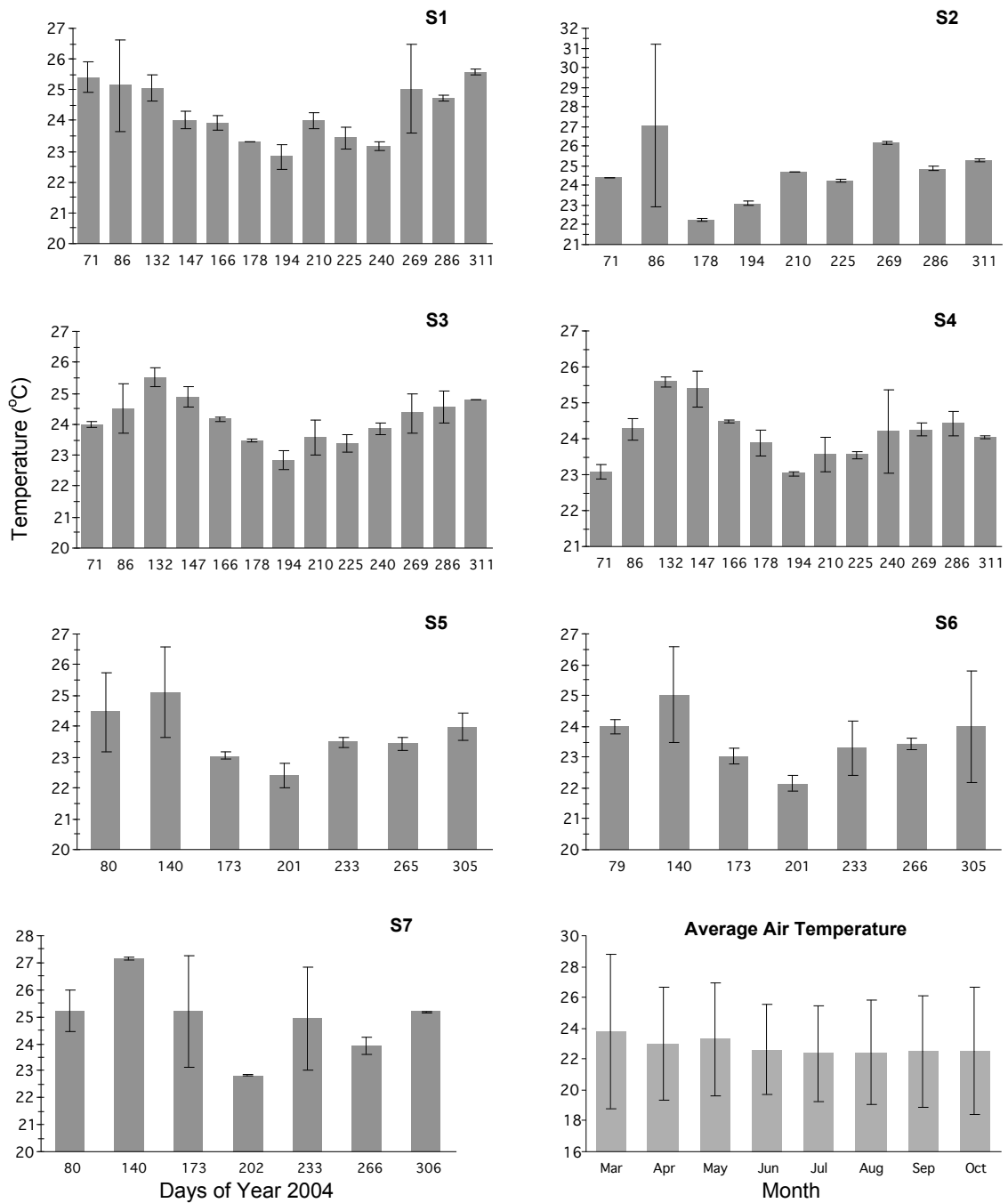


Figure C1. Average water temperature ($^{\circ}\text{C}$) at fixed monitoring stations and monthly average temperature at Wajifo Weather Station during the study period. Error bars indicate ± 1 SD of depth profile measurements.

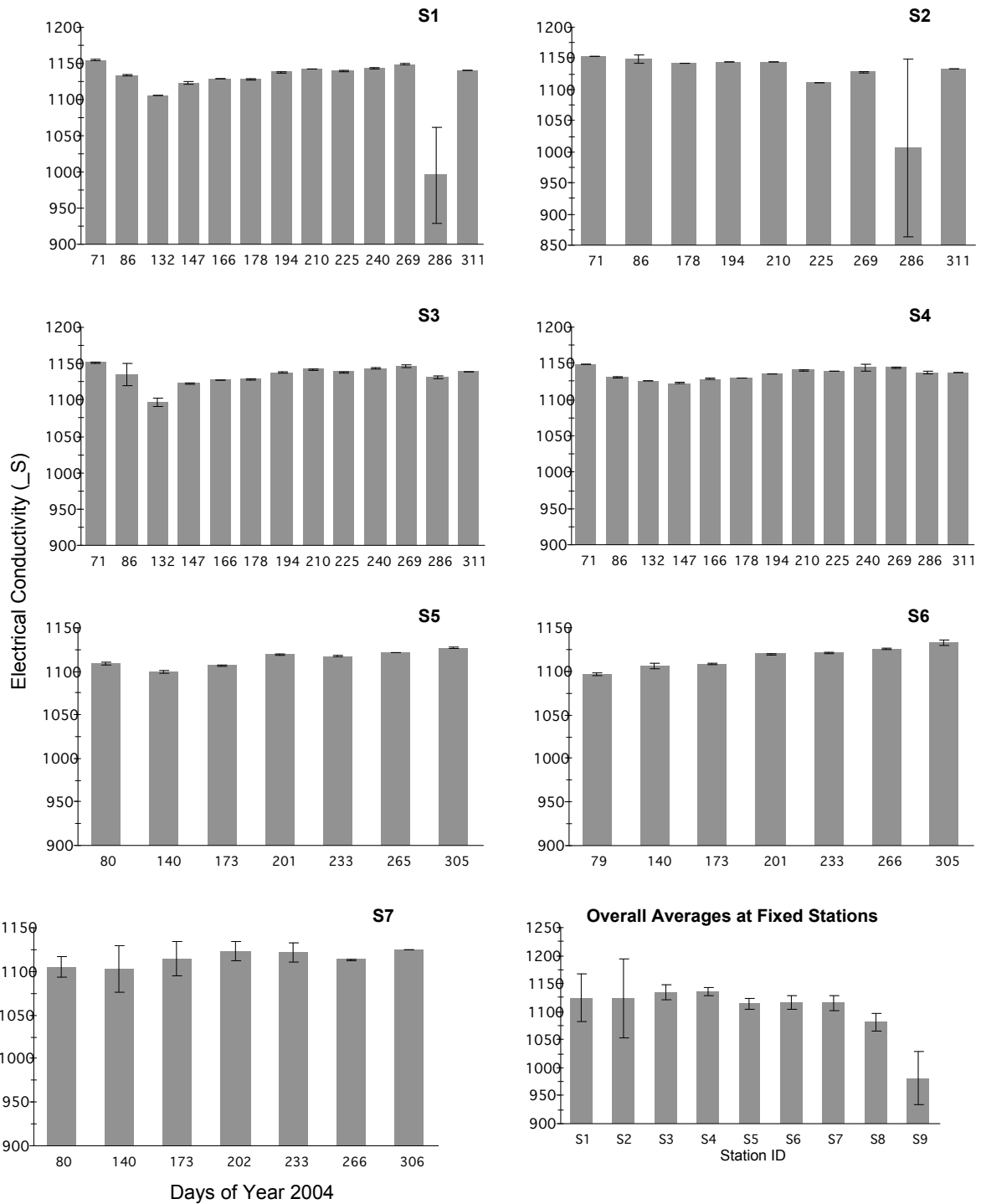


Figure C2. Average electrical conductivity (S.cm⁻¹) at fixed monitoring stations. Error bars indicate ±1 SD of depth profile measurements.

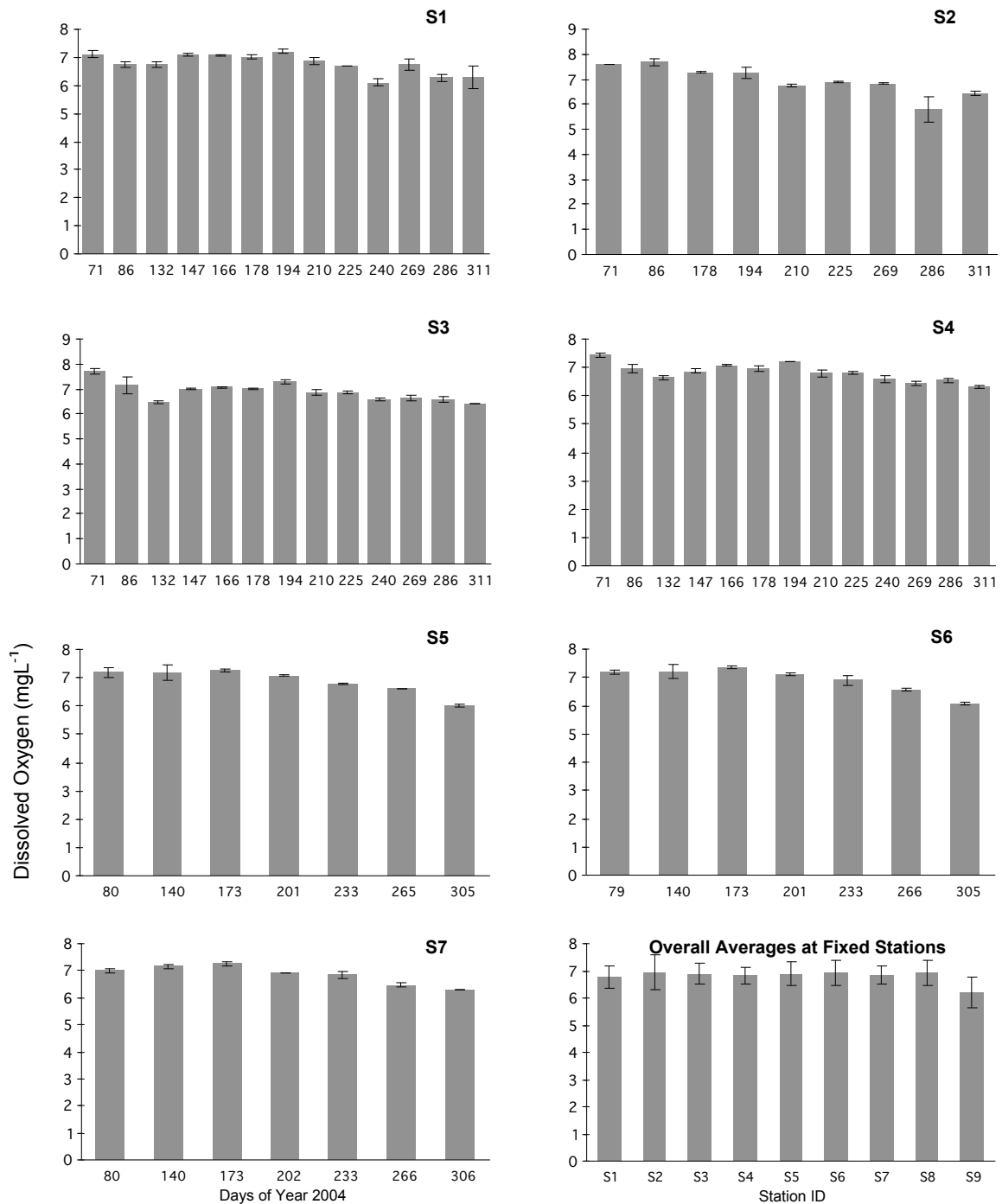


Figure C3. Average dissolved oxygen (mg.L⁻¹) concentration at fixed monitoring stations. Error bars indicate ±1 SD of depth profile measurements.

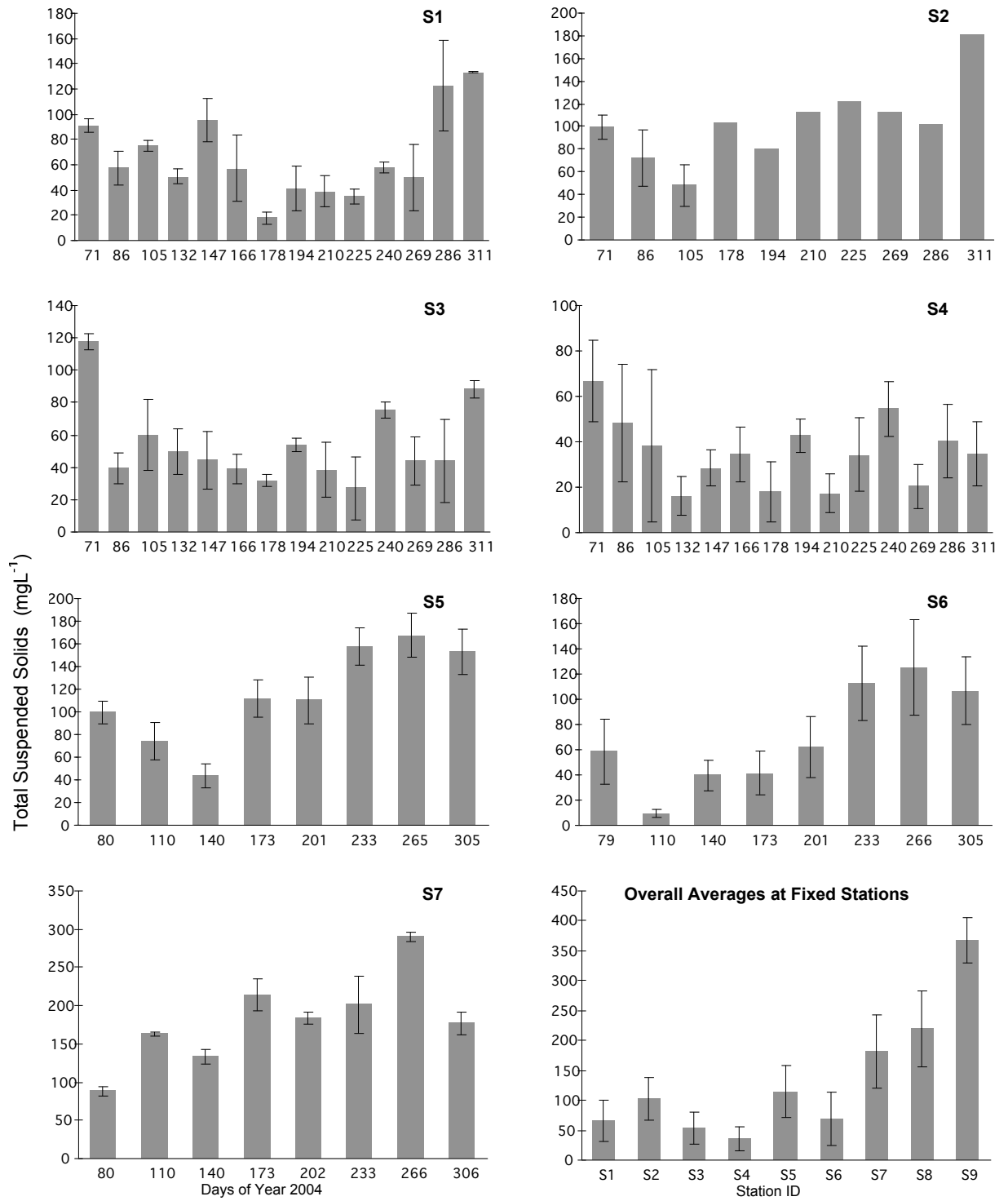


Figure C4. Average total dissolved solids (mg.L⁻¹) concentration at fixed monitoring stations. Error bars indicate ±1 SD of depth profile measurements.

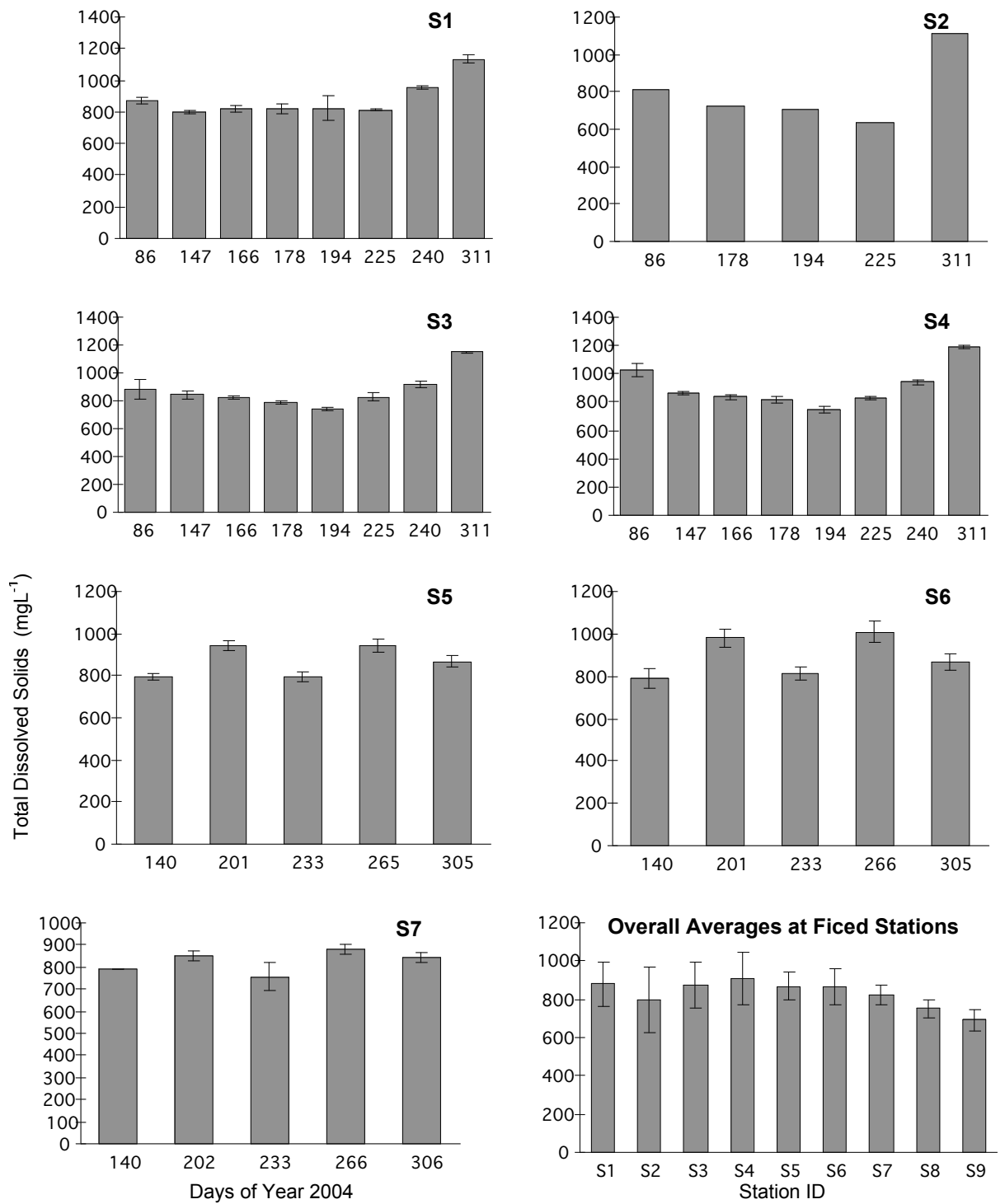


Figure C5. Average total dissolved solids (mg.L⁻¹) concentration at fixed monitoring stations. Error bars indicate ±1 SD of depth profile measurements.