Appendix A

Raw Data in Lithology, Hydraulic Characteristics, and Aquifer Permeability of the Vadose Zone

Appendix A

Raw Data in Lithology, Hydraulic Characteristics, and Aquifer Permeability of the Vadose Zone

This appendix contains the raw data in lithology, hydraulic characteristics, and aquifer permeability data sets used in statistical modeling of the vadose zone beneath the Radioactive Waste Management Complex at the Idaho National Engineering and Environmental Laboratory.

Table A-1. Lithologic data used for the 2001 Subsurface Disposal Area baseline risk assessment vadose zone model.

Common Well Name	Northing (ft)	Easting (ft)	Surf Elevation (ft amsl)	Thickness (ft)	A-B Elevation (ft amsl)	Thickness (ft)	B-C Elevation (ft amsl)	Thickness (ft)	C-D Elevation (ft amsl)	Thickness (ft)
76-1	669749	265343	5,009	7	4,983	9	4,921	0	4,790	>9
76-2	669352	266118	5,010	12	4,989	4	4,924	0	4,789	>32
76-3	669286	265161	5,010	18	4,988	3	4,917	26	4,790	>20
76-4	668889	266520	5,011	7	4,995	7	4,915	4	NA	NA
76-4a	668896	266495	5,011	2	4,995	8	4,915	3	4,790	>33
76-5	669808	266055	5,011	11	5,000	0	4,918	17	4,791	20
76-6	668734	268426	5,011	4	5,007	0	4,913	4	4,783	6
77-1	670623	266933	5,017	4	4,977	8	4,919	6	4,789	22
77-2	669579	265633	5,014	18	4,986	3	NA	NA	NA	NA
78-1	669037	267319	5,010	15	4,995	0	NA	NA	NA	NA
78-2	669782	268099	5,007	2	4,989	5	4,914	7	4,784	>30
78-3	669788	266151	5,011	4	4,999	0	4,919	0	4,786	>23
78-4	670650	266935	5,018	2	4,976	5	4,920	7	4,790	20
78-5	669365	265931	5,010	12	4,998	0	4,915	28	4,790	>30
79-1	668807	269783	5,010	5	5,005	0	4,897	28	4,785	5
79-2	669692	267171	5,011	13	4,987	3	4,913	4	NA	NA
79-3	668243	267807	5,008	13	4,995	0	4,909	4	4,780	29
88-02D	669441	267717	5,006	6	4,981	3	4,912	8	NA	NA
88-01D	669240	267059	5,008	18	4,990	0	4,907	4	4,781	>5
89-01D	669233	267132	5,009	22	4,987	0	4,908	7	4,781	>14
89-02D	669114	267021	5,011	16	4,995	0	4,910	9	4,780	7
93-01	669228	267112	5,009	20	4,989	0	4,903	4	4,781	>10
93-02	669234	267197	5,009	29	4,980	0	4,902	6	4,779	>8
9	654492	258101	5,032	9	5,000	0	4,878	38	NA	0

Table A-1. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Surf Elevation (ft amsl)	Thickness (ft)	A-B Elevation (ft amsl)	Thickness (ft)	B-C Elevation (ft amsl)	Thickness (ft)	C-D Elevation (ft amsl)	Thickness (ft)
86	667053	243371	5,081	14	NA	0	NA	0	NA	0
87	670635	266881	5,016	3	4,975	5	4,920	0	4,787	15
88	667356	265453	5,020	5	5,015	0	4,917	11	4,789	33
89	669957	263286	5,029	10	4,985	0	4,932	14	4,798	14
90	668552	269602	5,010	5	5,005	0	4,906	22	4,763	5
91	669100	268150	5,006	9	4,997	0	4,910	15	4,777	19
92	669408	266121	5,008	19	4,989	0	4,922	5	4,790	28
93	669566	265067	5,010	13	4,997	0	4,914	12	4,792	11
93A	669566	265179	5,010	11	4,999	0	4,916	13	4,793	9
94	669150	266050	5,008	12	4,996	0	4,915	18	4,788	26
95	668770	267038	5,008	23	4,985	0	4,912	16	4,786	12
96	669750	265700	5,009	13	4,978	4	4,912	27	4,790	10
96B	669754	265337	5,009	14	4,977	5	4,911	28	4,791	>11
105	651355	277395	5,090	15	5,075	0	NA	0	NA	0
106	669059	280994	5,017	3	5,014	0	4,886	22	NA	0
108	650807	285611	5,033	7	5,026	0	4,844	82	4,715	0
109	651255	265736	5,045	1	5,044	0	4,873	12	NA	0
117	668800	265711	5,012	14	4,998	0	4,915	5	4,789	28
118	668007	267802	5,013	14	4,999	0	4,910	11	4,791	28
119	667780	267541	5,031	3	5,028	0	4,919	5	4,783	19
120	665237	264542	5,042	12	5,030	0	4,911	40	4,790	14
DO-2	669683	267180	5,012	15	4,984	3	4,914	5	4,789	>12
DO-6	669806	266863	5,012	3	4,973	9	4,925	0	NA	NA
DO-6A	669796	266860	5,012	2	4,971	>9	NA	NA	NA	NA
D-10	669739	265331	5,009	9	4,981	9	4,916	2	4,791	11

Table A-1. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Surf Elevation (ft amsl)	Thickness (ft)	A-B Elevation (ft amsl)	Thickness (ft)	B-C Elevation (ft amsl)	Thickness (ft)	C-D Elevation (ft amsl)	Thickness (ft)
D-15	668966	264930	5,011	2	4,980	4	4,917	18	4,793	20
RWMC	669659	269011	5,005	7	4,998	0	4,909	6	4,786	17
TW-1	669689	267177	5,010	14	4,977	0	4,913	5	4,789	>17
test_w	665238	264743	5,042	3	5,039	0	4,912	10	4,788	20
WWW#1	669941	263210	5,036	5	4,992	11	4,931	16	4,805	21
WWW#2	669689	263116	5,036	3	5,001	10	4,933	>18	NA	NA
VZT-1	670702	266975	5,018	4	4,975	7	4,918	18	NA	NA
C-1	671675	269780	5,029	2	4,993	2	4,909	5	4,799	10
C-1A	671707	269792	5,029	4	4,993	0	4,911	4	4,799	12
Rif-Ran	685752	282883	4,967	9	4,958	20	4,849	0	4,821	0
HWY-3	687065	277159	4,981	21	4,960	14	4,835	0	4,816	0
EBR-I	674268	276993	5,024	11	5,013	0	4,900	24	4,788	5
A11A31	662517	268728	5,065	3	5,062	0	4,892	66	4,782	35
OW-1	665336	264794	5,042	5	5,037	0	4,915	30	4,787	14
OW-2	664910	264932	5,044	7	5,037	0	4,910	42	4,784	4
NA89-1	669083	259758	5,045	2	4,995	0	4,931	17	4,821	8
NA89-2	675154	257588	5,059	12	5,014	0	4,863	4	NA	NA
NA89-3	665178	264344	5,038	1	5,037	0	4,909	46	NA	NA
M1SA	668992	264962	5,011	7	4,980	5	4,917	20	4,790	20
M3S	670165	268700	5,016	5	4,989	3	4,910	15	4,792	3
M4D	667255	265510	5,023	8	5,015	0	4,914	29	4,787	28
M6S	666379	270722	5,066	7	5,059	0	4,900	10	4,746	18
M7S	671588	270921	5,005	9	4,996	0	4,908	6	4,782	0
M10S	668227	266882	5,022	6	5,016	0	4,910	24	4,789	27
VVE-1	669009	264964	5,011	8	4,980	6	4,917	22	4,792	>23

Table A-1. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Surf Elevation (ft amsl)	Thickness (ft)	A-B Elevation (ft amsl)	Thickness (ft)	B-C Elevation (ft amsl)	Thickness (ft)	C-D Elevation (ft amsl)	Thickness (ft)
VVE-3	670163	268676	5,015	6	4,987	4	4,909	14	4,792	>10
VVE-4	667253	265486	5,022	8	5,000	15	4,916	31	4,787	>23
VVE-6A	666368	270684	5,066	4	5,062	0	4,903	14	NA	NA
VVE-7	671608	270919	5,004	14	4,990	0	4,887	11	4,784	>7
VVE-10	668241	266869	5,021	6	5,015	0	4,908	24	4,781	>18
1E	669475	268396	5,006	15	4,991	0	4,907	>7	NA	NA
1V	669619	268429	5,006	9	4,997	0	4,911	7	NA	NA
2E	669438	267553	5,008	15	4,979	3	4,912	>3	NA	NA
2V	668845	268259	5,006	7	4,999	0	4,910	9	4,767	>3
3E	669775	267147	5,012	5	5,007	0	4,913	3	NA	NA
3V	669690	267564	5,009	17	4,982	4	4,910	4	4,787	>2
4E	669265	266600	5,014	23	4,991	0	4,913	>4	NA	NA
4V	668980	267320	5,012	10	5,002	0	4,908	13	4,781	>4
5E	669403	265750	5,013	21	4,992	0	4,916	>4	NA	NA
5V	668885	266555	5,011	9	4,992	7	4,913	3	NA	NA
6V	669688	266352	5,017	10	4,986	7	4,926	4	4,793	>2
7V	669370	266113	5,009	15	4,987	7	4,925	10	4,786	>5
8V	669190	265723	5,012	21	4,991	0	4,914	37	4,786	>1
9V	669845	265754	5,014	20	4,994	0	4,913	20	4,786	>1
10V	669572	265022	5,013	10	4,993	9	4,916	14	4,789	>5
M11S	675132	274247	4,994	10	4,984	0	4,903	5	4,787	23
M12S	677145	280877	4,975	8	4,967	0	4,911	2	4,783	12
M13S	672953	276945	5,027	16	5,011	0	4,894	12	4,781	0
M14S	674610	266413	5,032	7	5,025	0	4,904	0	4,824	0
M15S	668207	271193	5,019	18	5,001	0	4,889	27	4,789	15

Table A-1. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Surf Elevation (ft amsl)	Thickness (ft)	A-B Elevation (ft amsl)	Thickness (ft)	B-C Elevation (ft amsl)	Thickness (ft)	C-D Elevation (ft amsl)	Thickness (ft)
M16S	670185	271201	5,004	18	4,986	0	4,886	10	4,807	12
M17S	669364	267183	5,012	23	4,989	0	4,911	10	4,784	22
I-1S	669563	264936	5,013	8	5,005	0	4,913	11	NA	NA
I-1D	669563	265041	NA	NA	NA	NA	NA	NA	4,790	20
I-2S	669413	265632	5,014	18	4,996	0	4,911	11	NA	NA
I-2D	669427	265396	NA	NA	NA	NA	NA	NA	4,791	1
I-3S	669406	266280	5,012	16	4,985	2	4,914	4	NA	NA
I-3D	669405	266304	NA	NA	NA	NA	NA	NA	4,787	>11
I-4S	669462	266907	5,009	15	4,994	0	4,912	2	NA	NA
I-4D	669462	266932	NA	NA	NA	NA	NA	NA	4,787	>16
I-5S	669366	267132	5,012	32	4,980	0	4,913	>6	NA	NA
O-1	669140	264952	5,011	8	4,979	1	4,917	18	4,790	>15
O-2	668242	267356	5,014	5	5,009	0	4,907	18	4,771	7
O-3	670011	266496	5,010	8	4,975	9	4,919	12	4,789	>15
O-4	669607	264543	5,014	11	4,970	7	4,909	18	4,789	>19
O-5	669423	263931	5,021	2	4,976	6	4,916	23	4,789	26
O-6	668606	264939	5,013	10	4,982	6	4,905	14	4,789	>26
O-7	667762	264503	5,033	4	5,006	6	4,915	34	4,788	>4
O-8	668715	268351	5,010	8	5,002	0	4,910	0	4,777	>1

Table A-2. Raw hydraulic characteristic data.

Common Well Name	Northing (ft)	Easting (ft)	Interbed (B-C or C-D)	Elevation (ft amsl)	Porosity (per cent)	Permeability (μm/second)
I1-S	669562	264935	B-C	4,912	26.9	19.340000
I1-S	669562	264935	B-C	4,908	27.7	0.001138
I1-S	669562	264935	B-C	4,904	22.2	NA
I1-D	669562	265040	C-D	4,790	54.3	840.700000
I1-D	669562	265040	C-D	4,776	41.3	17.210000
I1-D	669562	265040	C-D	4,771	36.5	NA
I2-S	669412	265631	B-C	4,914	36.3	9.016000
I2-S	669412	265631	B-C	4,908	26.5	0.036730
I2-S	669412	265631	B-C	4,902	25.3	NA
I2-D	669426	265395	C-D	4,791	41.3	22.290000
I3-S	669406	266279	B-C	4,910	26.4	1.108000
I3-D	669405	266304	C-D	4,783	36.8	3.277000
I3-D	669405	266304	C-D	4,778	51.5	NA
I4-S	669462	266906	B-C	4,912	47.5	56.980000
I4-D	669462	266931	C-D	4,781	43.5	8.138000
I4-D	669462	266931	C-D	4,780	29.6	0.011600
I4-D	669462	266931	C-D	4,771	23.2	0.058680
I4-D	669462	266931	C-D	4,771	23.2	NA
O-1	669139	264951	B-C	4,913	31.8	164.100000
O-1	669139	264951	B-C	4,905	34.3	12.420000
O-1	669139	264951	B-C	4,899	31.4	0.069630
O-1	669139	264951	C-D	4,783	42.0	36.620000
O-2	668241	267355	B-C	4,904	39.9	174.500000
O-2	668241	267355	B-C	4,896	21.6	NA
O-2	668241	267355	B-C	4,889	23.8	6.099000
O-3	670011	266496	B-C	4,913	33.8	3.019000
O-3	670011	266496	C-D	4,776	31.5	45.890000
O-3	670011	266496	C-D	4,781	42.4	2.929000
O-3	670011	266496	C-D	4,773	24.8	NA
O-4	669607	264542	C-D	4,789	39.4	9.968000
O-4	669607	264542	C-D	4,781	53.3	6.758000

Table A-2. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Interbed (B-C or C-D)	Elevation (ft amsl)	Porosity (per cent)	Permeability (μm/second)
O-4	669607	264542	C-D	4,770	27.4	NA
O-5	669423	263930	B-C	4,904	37.2	28.990000
O-5	669423	263930	B-C	4,900	30.7	0.114800
O-5	669423	263930	B-C	4,893	21.9	0.003127
O-5	669423	263930	C-D	4,789	37.2	17.380000
O-5	669423	263930	C-D	4,774	27.3	0.017810
O-5	669423	263930	C-D	4,766	28.7	2.197000
O-6	668605	264938	B-C	4,909	34.9	0.346500
O-6	668605	264938	B-C	4,897	43.8	NA
O-6	668605	264938	B-C	4,893	40.7	NA
O-6	668605	264938	C-D	4,771	31.9	0.879400
O-6	668605	264938	C-D	4,769	34.4	0.611100
O-7	667761	264502	B-C	4,909	36.5	1.267000
O-7	667761	264502	B-C	4,896	32.8	7.467000
O-7	667761	264502	B-C	4,885	35.4	0.922200
O-7	667761	264502	C-D	4,788	49.4	42.880000
O-7	667761	264502	C-D	4,785	38.9	81.640000
O-9	668207	271193	B-C	4,886	37.9	19.570000
O-9	668207	271193	B-C	4,876	36.5	1.421000
O-9	668207	271193	B-C	4,868	32.1	4.949000
BG-91	669100	268150	B-C	4,923	35.5	34.700000
BG-94	669150	266050	B-C	4,897	36.5	8.790000
BG-95	668770	267038	B-C	4,901	44.7	1.740000
BG-95	668770	267038	B-C	4,897	20.6	0.000036
BG-96	669750	265700	B-C	4,892	43.2	0.000076
D15	668966	264930	B-C	4,901	37.9	0.000113
BG-87	670635	266881	C-D	4,781	35.7	0.289000
BG-87	670635	266881	C-D	4,775	42.7	0.003700
BG-88	667356	265453	C-D	4,784	46.3	1.510000
BG-88	667356	265453	C-D	4,773	42.1	0.000405
BG-88	667356	265453	C-D	4,767	NA	0.000009

Table A-2. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Interbed (B-C or C-D)	Elevation (ft amsl)	Porosity (per cent)	Permeability (μm/second)
BG-88	667356	265453	C-D	4,755	35.0	0.000036
BG-89	669957	263286	C-D	4,789	35.6	0.000002
BG-89	669957	263286	C-D	4,785	38.1	0.000706
BG-89	669957	263286	C-D	4,778	28.5	0.000671
BG-90	668552	269602	C-D	4,762	46.1	0.336000
BG-90	668552	269602	C-D	4,761	53.3	NA
BG-91	669100	268150	C-D	4,771	53.4	8.330000
BG-91	669100	268150	C-D	4,769	50.4	3.000000
BG-91	669100	268150	C-D	4,762	50.3	NA
BG-92	669408	266121	C-D	4,782	45.1	30.100000
BG-92	669408	266121	C-D	4,774	37.6	0.313000
BG-92	669408	266121	C-D	4,763	35.1	0.000024
BG-93	669566	265067	C-D	4,781	42.2	0.637000
BG-94	669150	266050	C-D	4,778	40.8	0.185000
BG-94	669150	266050	C-D	4,770	41.1	2.660000
BG-94	669150	266050	C-D	4,762	33.9	0.000833
BG-94	669150	266050	C-D	4,737	NA	0.000648
BG-95	668770	267038	C-D	4,777	46.3	3.240000
BG-95	668770	267038	C-D	4,775	42.5	10.800000
BG-96	669750	265700	C-D	4,784	37.1	0.021900
D02	669683	267180	C-D	4,781	44.9	1.070000
D02	669683	267180	C-D	4,779	44.3	58.100000
D02	669683	267180	C-D	4,777	39.9	67.300000
D15	668966	264930	C-D	4,779	39.5	0.001440
D15	668966	264930	C-D	4,772	39.6	0.002630
8801D	669240	267059	C-D	4,783	54.2	27.400000
8801D	669240	267059	C-D	4,783	47.4	0.117000
8801D	669240	267059	C-D	4,780	53.7	1.300000
8801D	669240	267059	C-D	4,774	40.1	0.034500
118	668007	267802	C-D	4,785	37.8	1.850000
118	668007	267802	C-D	4,770	42.1	0.200000

Table A-2. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Interbed (B-C or C-D)	Elevation (ft amsl)	Porosity (per cent)	Permeability (μm/second)
UZ98-2	664787	264562	B-C	4,899	50.4	39.000000
UZ98-2	664787	264562	B-C	4,899	51.3	39.000000
UZ98-2	664787	264562	B-C	4,898	51.7	39.000000
UZ98-2	664787	264562	B-C	4,898	48.8	39.000000
UZ98-2	664787	264562	B-C	4,892	38.4	0.608000
UZ98-2	664787	264562	B-C	4,882	47.2	0.005660
UZ98-2	664787	264562	B-C	4,882	48.2	0.003440
UZ98-2	664787	264562	B-C	4,881	45.4	0.125000
UZ98-2	664787	264562	B-C	4,880	44.4	0.004760
UZ98-2	664787	264562	B-C	4,879	44.0	0.010900
UZ98-2	664787	264562	B-C	4,879	44.0	0.010900
UZ98-2	664787	264562	B-C	4,879	45.2	0.148000
UZ98-2	664787	264562	B-C	4,878	47.0	0.278000
UZ98-2	664787	264562	B-C	4,877	45.1	0.031600
UZ98-2	664787	264562	B-C	4,876	46.0	0.170000
UZ98-2	664787	264562	B-C	4,876	43.9	0.081800
UZ98-2	664787	264562	B-C	4,876	45.6	0.164000
UZ98-2	664787	264562	B-C	4,876	44.7	0.002350
UZ98-2	664787	264562	B-C	4,875	45.5	0.004750

Table A-3. Hydraulic characteristic data, by well, used for the Subsurface Disposal Area baseline risk assessment vadose zone model.

Common Well Name	Northing (ft)	Easting (ft)	Interbed (B-C or C-D)	Mean Porosity (percent)	Harmonic Mean Permeability (mD)
I1-S	669562	264935	B-C	22.2	0.2356
I2-S	669412	265631	B-C	25.3	7.5737
I3-S	669406	266279	B-C	26.4	114.6998
I4-S	669462	266906	B-C	47.5	5898.5507
O-1	669139	264951	B-C	31.4	21.4946
O-2	668241	267355	B-C	21.6	1220.0892
O-3	670011	266496	B-C	33.8	312.5259
O-5	669423	263930	B-C	21.9	0.9453
O-6	668605	264938	B-C	34.9	35.8696
O-7	667761	264502	B-C	32.8	154.6954
O-9	668207	271193	B-C	32.1	324.5506
BG-91	669100	268150	B-C	35.5	3592.1325
BG-94	669150	266050	B-C	36.5	909.9379
BG-95	668770	267038	B-C	20.6	0.0074
BG-96	669750	265700	B-C	43.2	0.0079
D15	668966	264930	B-C	37.9	0.0117
UZ98-2	664787	264562	B-C	37.4	1.2504
I1-D	669562	265040	C-D	44.0	3491.6689
I2-D	669426	265395	C-D	41.3	2307.4534
I3-D	669405	266304	C-D	44.2	339.2340
I4-D	669462	266931	C-D	29.9	3.0043
O-1	669139	264951	C-D	42.0	3790.8903
O-3	670011	266496	C-D	32.9	570.0349
O-4	669607	264542	C-D	40.0	833.8482
O-5	669423	263930	C-D	31.1	5.4810
O-6	668605	264938	C-D	33.2	74.6483
O-7	667761	264502	C-D	44.2	5820.6506
BG-87	670635	266881	C-D	39.2	0.7564
BG-88	667356	265453	C-D	41.1	0.0030
BG-89	669957	263286	C-D	34.1	0.0006

Table A-3. (continued).

Common Well Name	Northing (ft)	Easting (ft)	Interbed (B-C or C-D)	Mean Porosity (percent)	Harmonic Mean Permeability (mD)
BG-90	668552	269602	C-D	49.7	69.5652
BG-91	669100	268150	C-D	51.4	456.6560
BG-92	669408	266121	C-D	39.3	0.0075
BG-93	669566	265067	C-D	42.2	65.9420
BG-94	669150	266050	C-D	38.6	0.1506
BG-95	668770	267038	C-D	44.4	516.0057
BG-96	669750	265700	C-D	37.1	2.2671
D02	669683	267180	C-D	43.0	321.2735
D15	668966	264930	C-D	39.6	0.1927
8801D	669240	267059	C-D	48.9	10.8007
118	668007	267802	C-D	39.9	37.3681

Table A-4. Aquifer permeability data used for the Subsurface Disposal Area baseline risk assessment vadose zone model.

Common Well Name	Northing (ft)	Easting (ft)	Transmissivity (ft^2/d)
9	654492	258101	59,000
86	667053	243371	300
87	670635	266881	850
88	667356	265453	13
89	669957	263286	49
90	668552	269602	490
106	669059	280994	100,000
109	651255	265736	110,000
117	668800	265711	14
119	667780	267541	1.1
120	665237	264542	220,000
RWMC	669659	269011	6,800
test_w	665238	264743	1,000,000
EBR-I	674268	276993	1,300
M1SA	668992	264962	20
M3S	670165	268700	1,000
M4D	667255	265510	4
M6S	666379	270722	30
M7S	671588	270921	1,000
M10S	668227	266882	4
Pit 9	670280	267930	1,000
105[R]	651355	277395	85,000
108[R]	650807	285611	150,000
Hwy3[R]	687065	277159	>330
11[R]	630660	248815	>7,000

R = Wells marked with [R] were removed as outliers.

Appendix B

Variograms and Maps

Appendix B

Variograms and Maps

This appendix contains figures of variograms and maps of predicted values and standard deviations. The variograms provide supporting documentation for statistical modeling of the vadose zone beneath the Radioactive Waste Management Complex at the Idaho National Engineering and Environmental Laboratory. The maps provide kriging diagrams of the results.

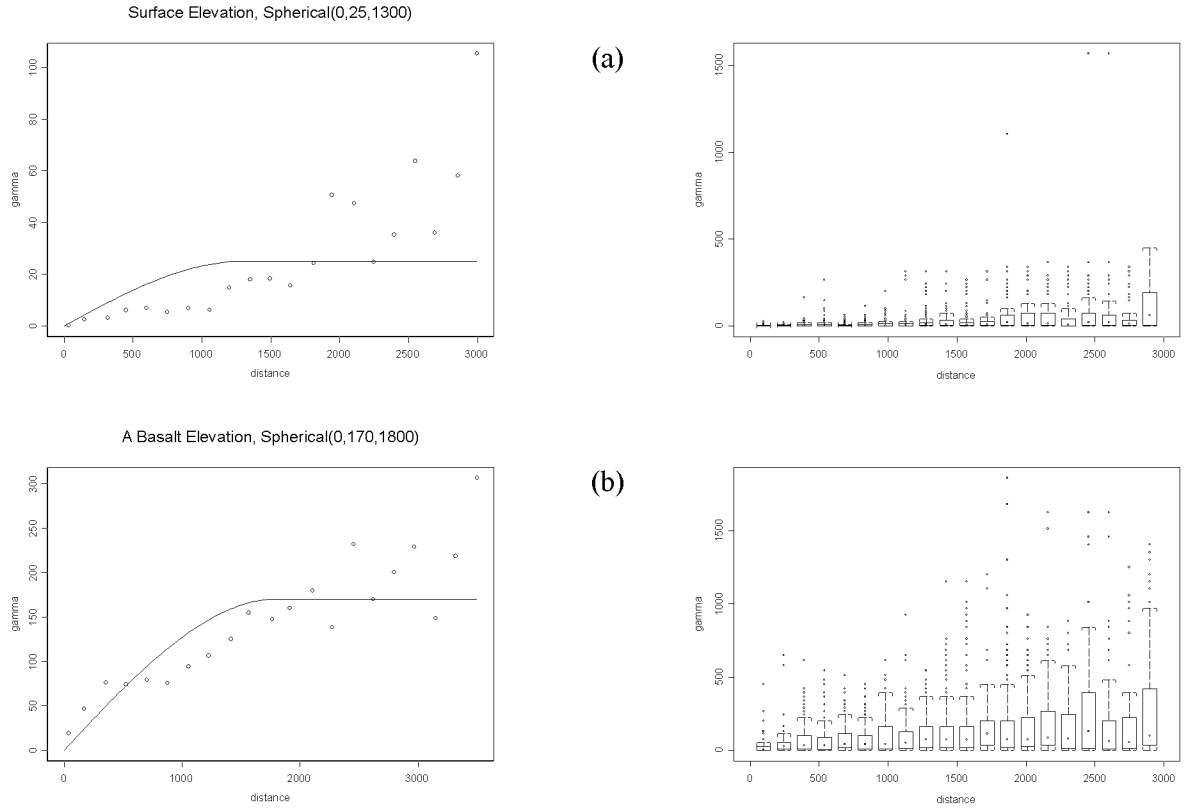


Figure B-1. Empirical variograms with models overlaid. The boxplots on the right are of the variogram cloud. (The variogram cloud depicts the semivariance at all pairs of points at various distances.) The middle line in the box is the median, the upper and lower ends of the box are the 75th and 25th percentiles. Lines extend from the box to the 90th and 10th percentiles. Values below or above the lines represent extremes.

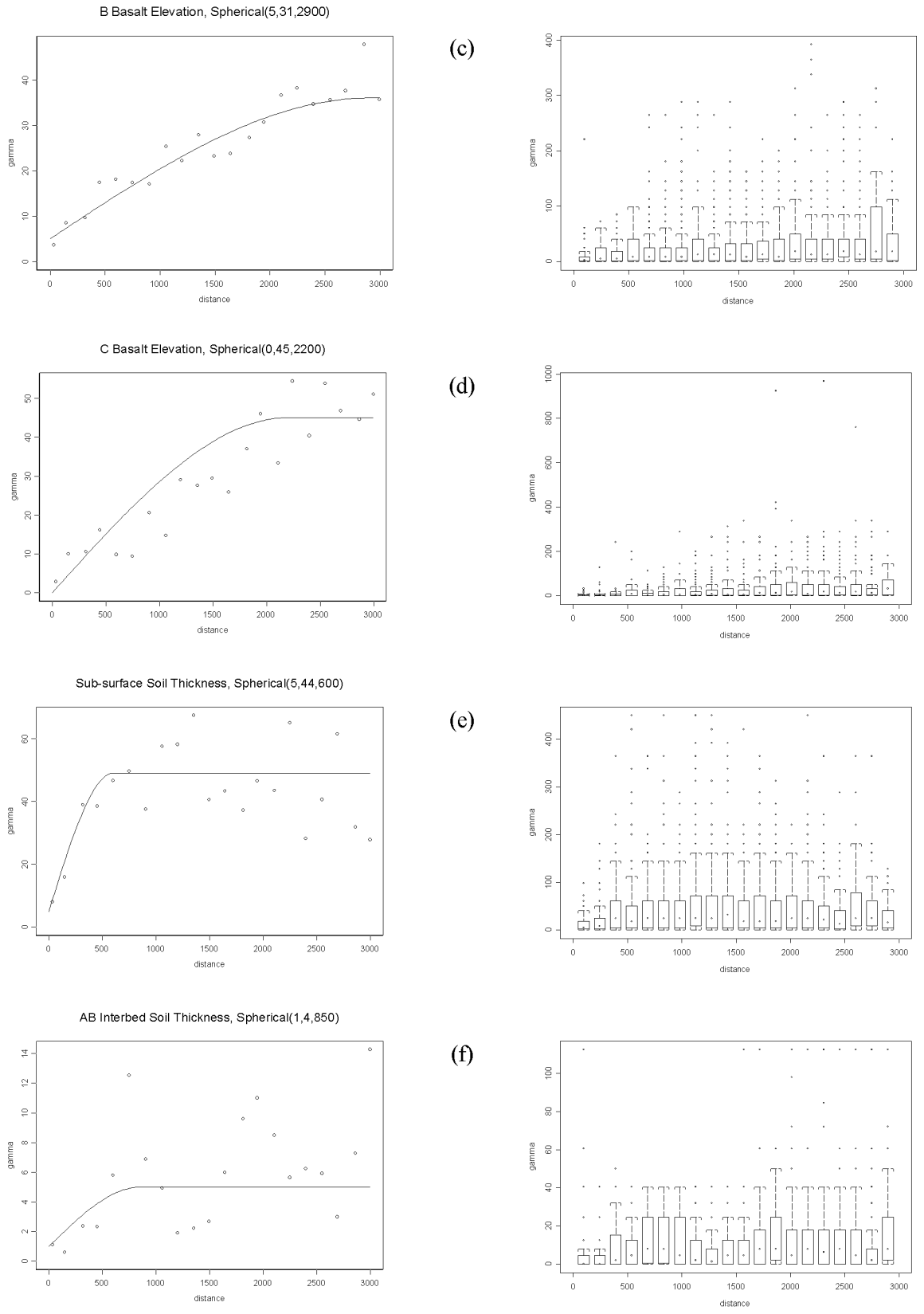


Figure B-1. (continued).

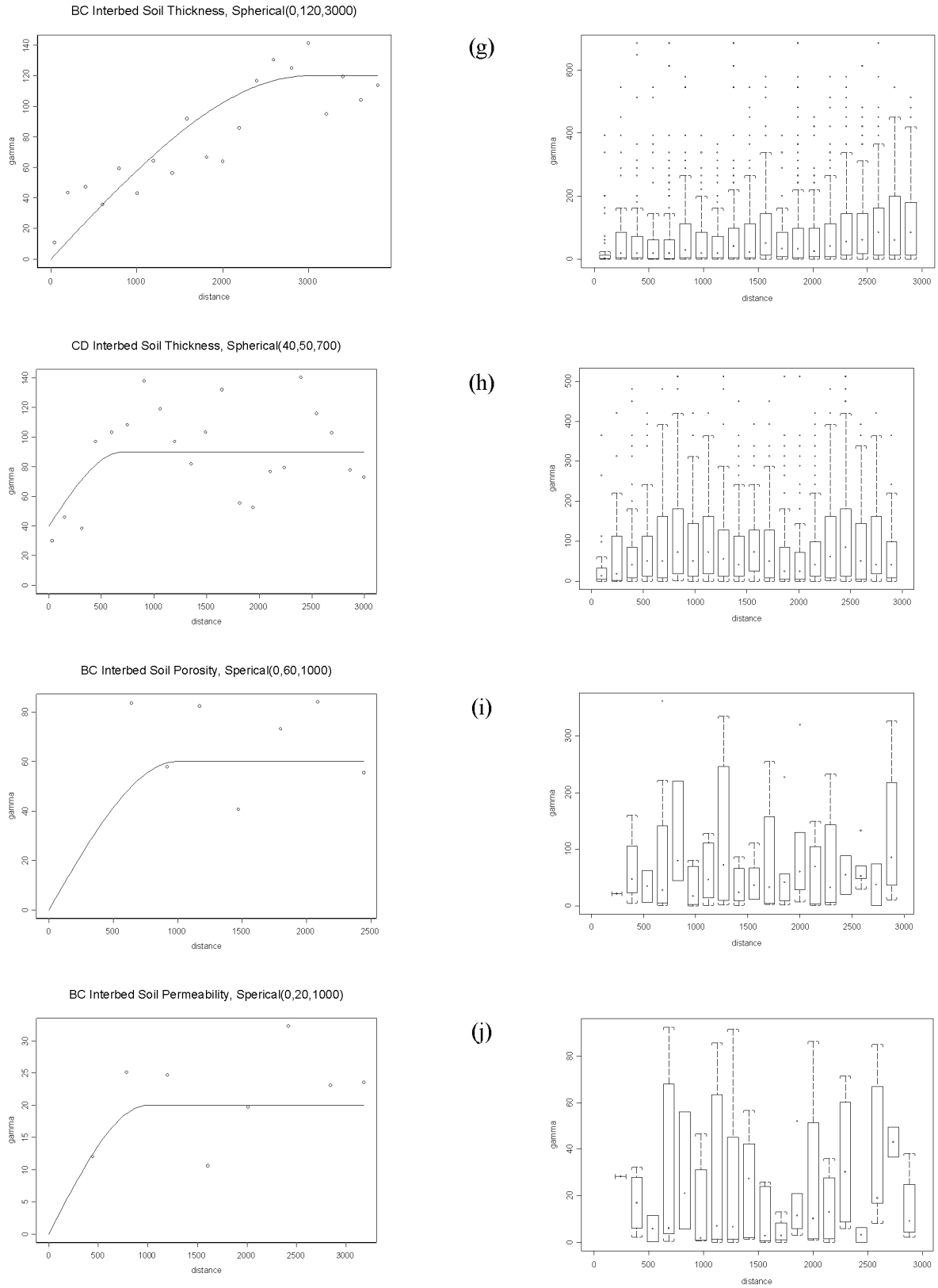


Figure B-1. (continued).

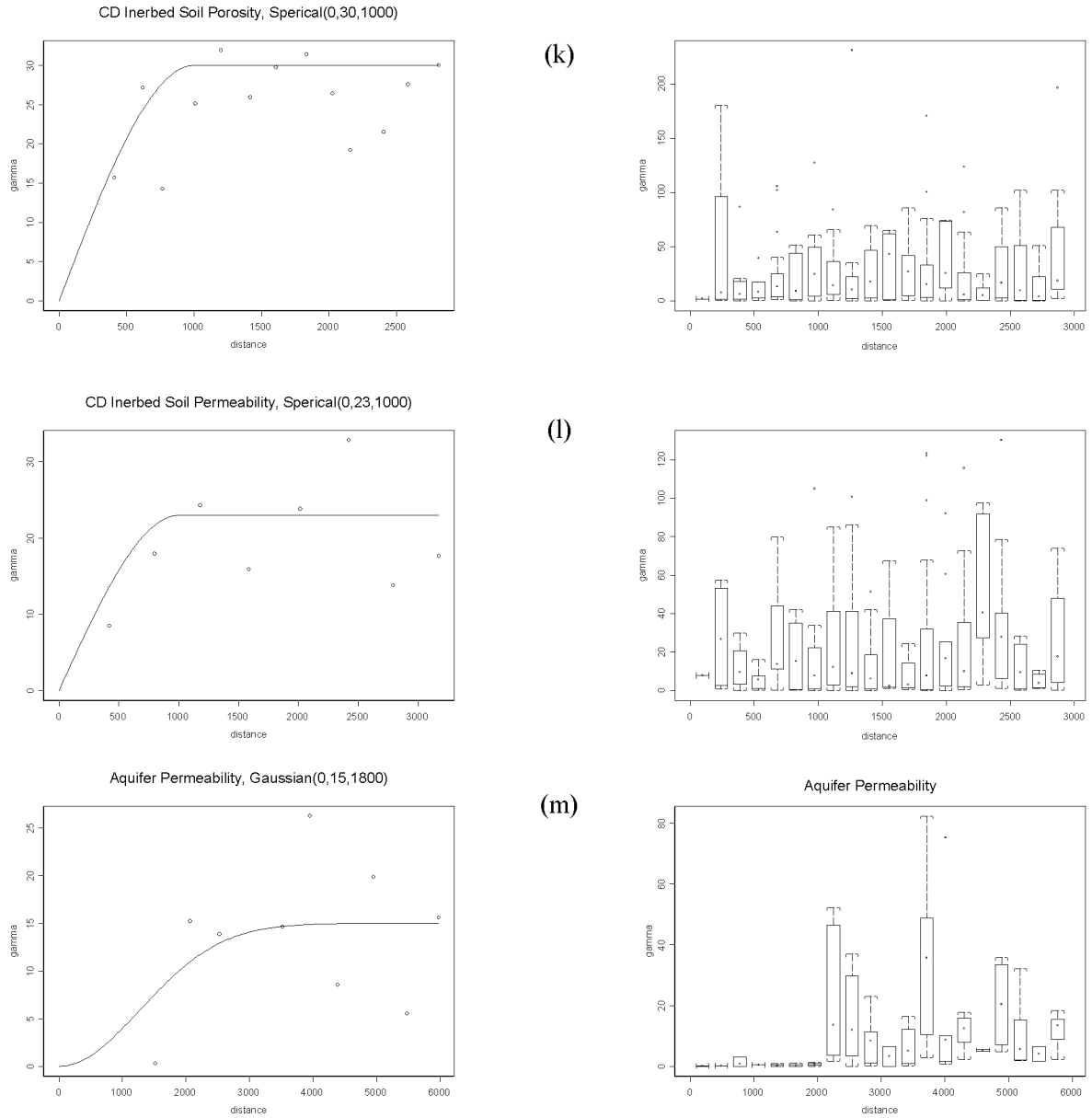


Figure B-1. (continued).

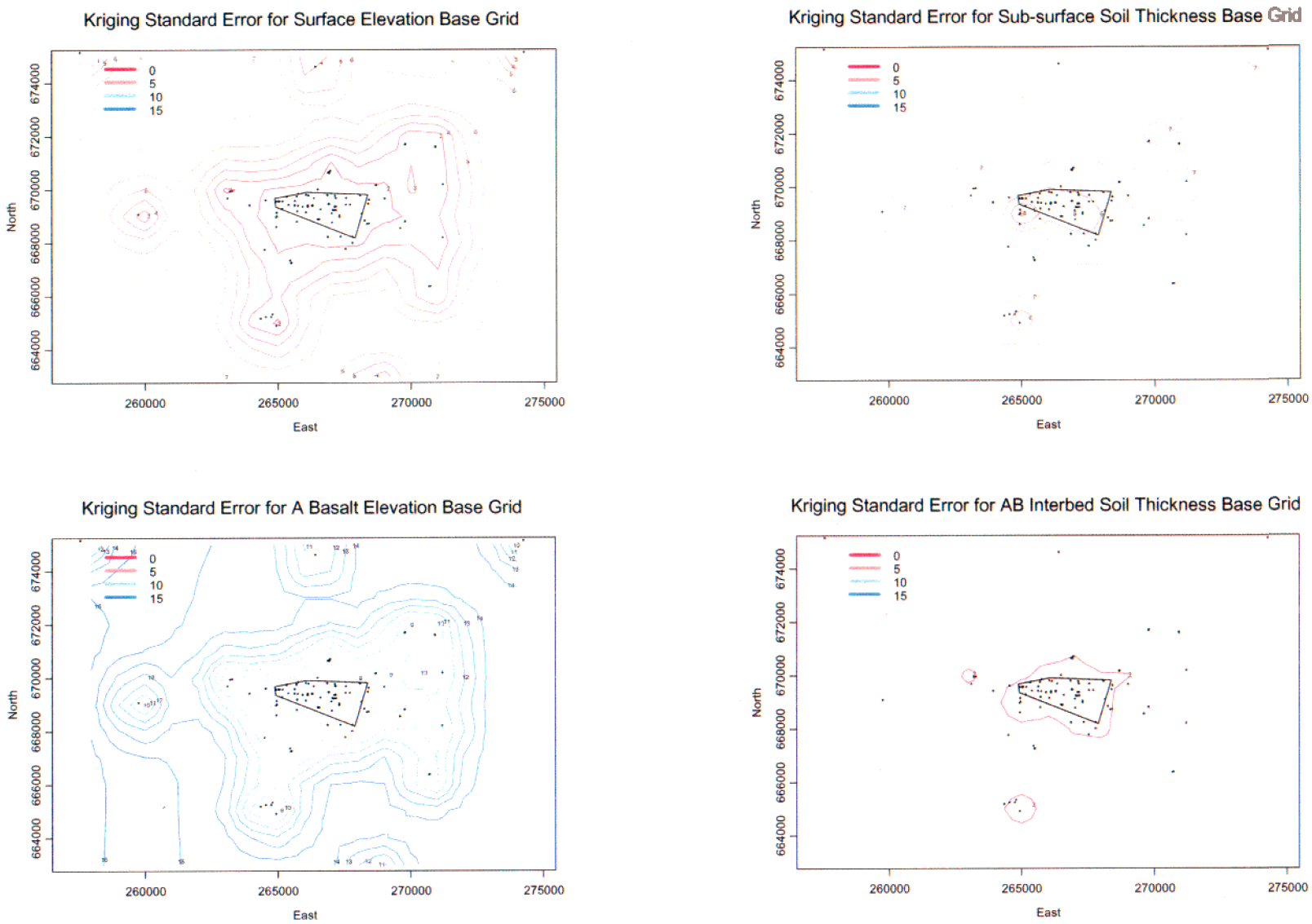
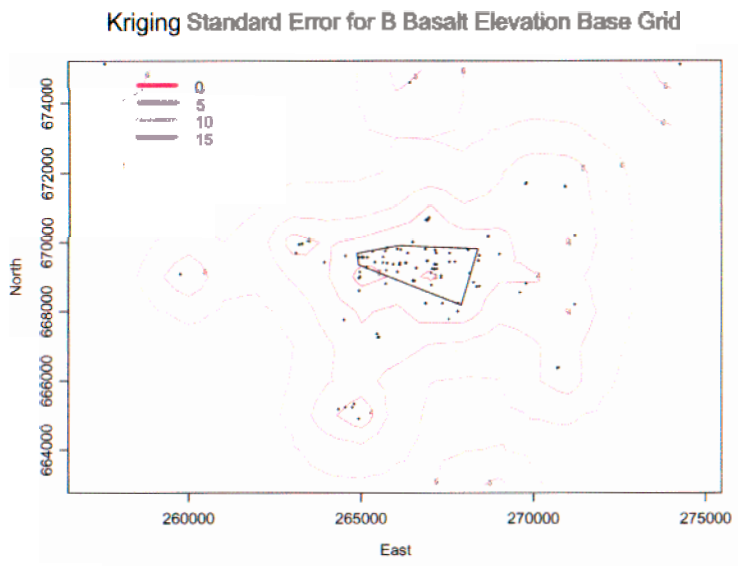
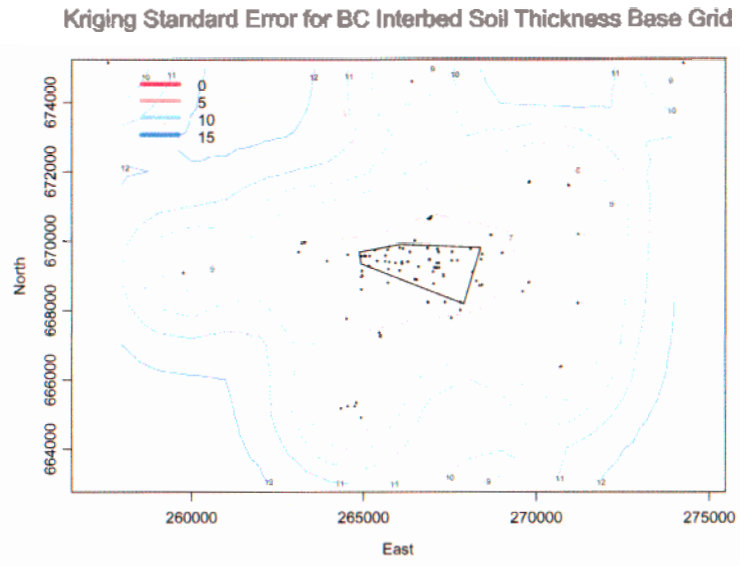
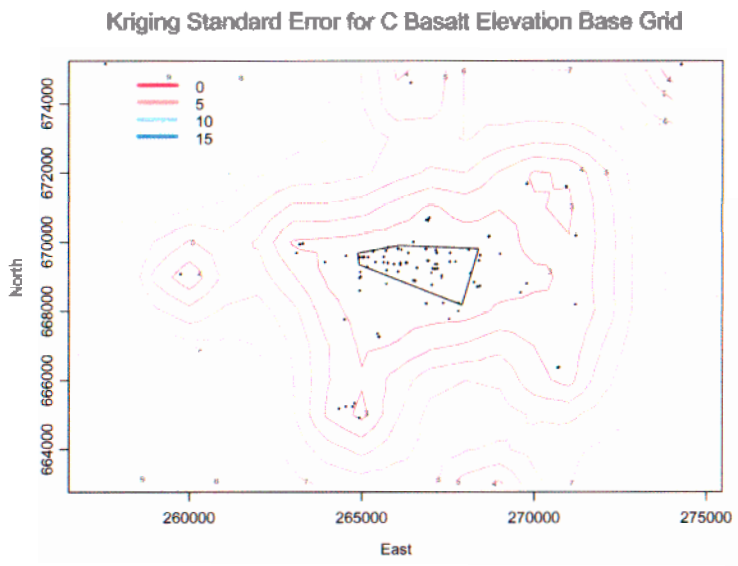


Figure B-2. Maps of standard deviation of the predictions.







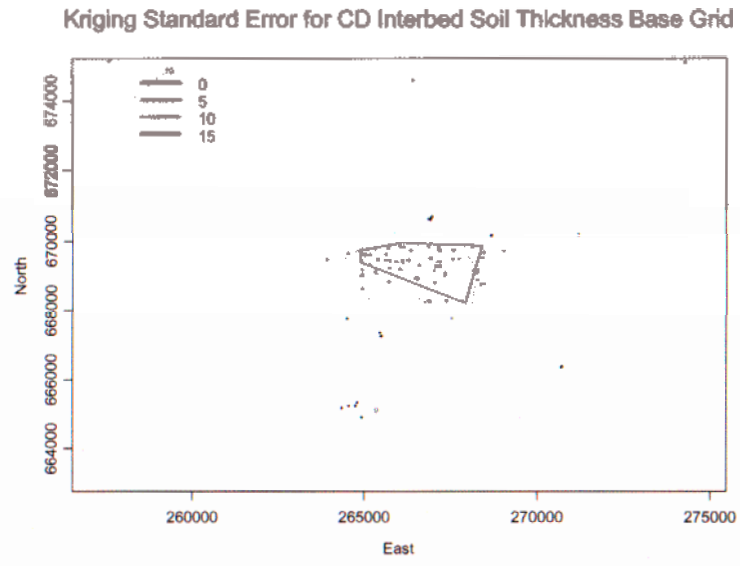
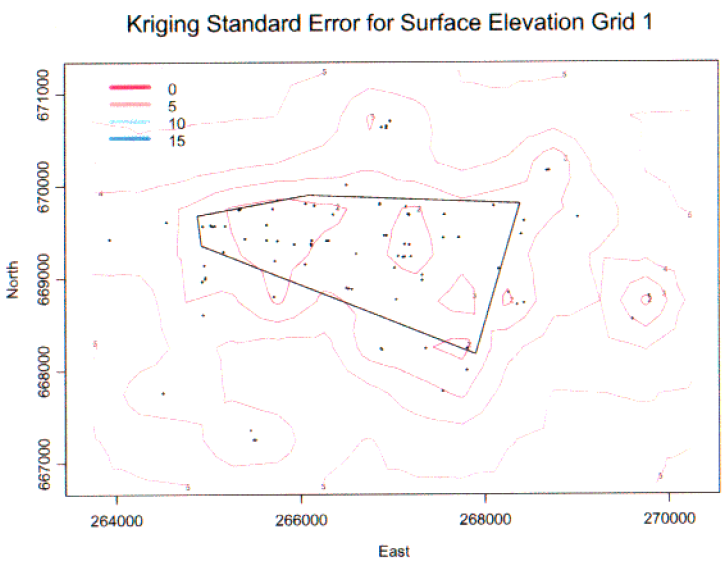
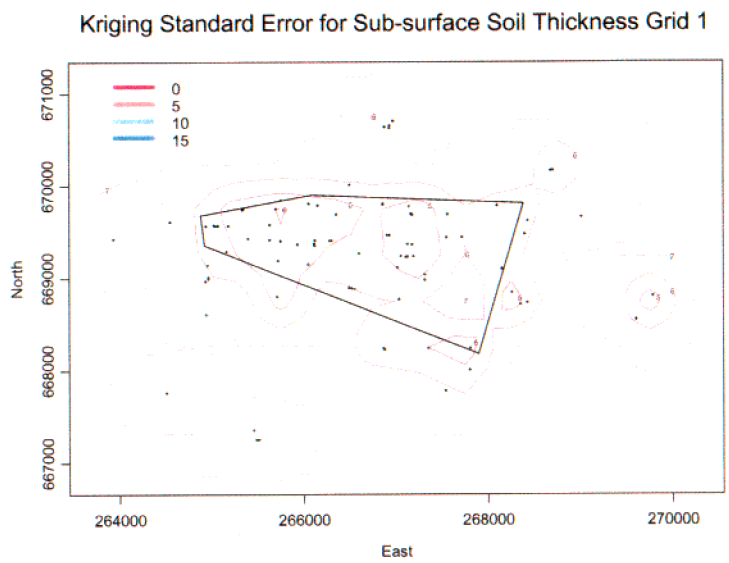
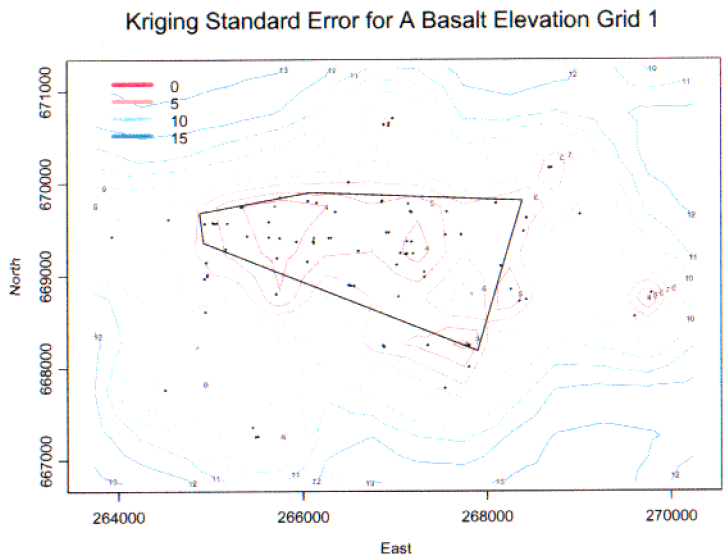


Figure B-2. (continued).







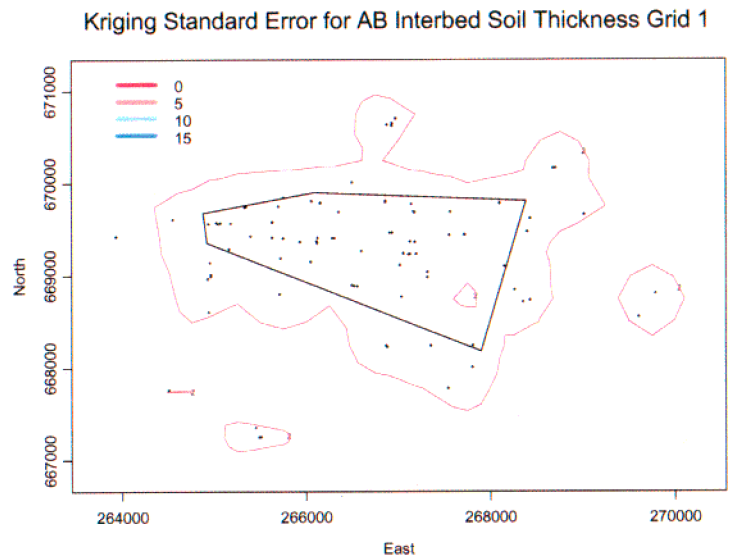


Figure B-2. (continued).

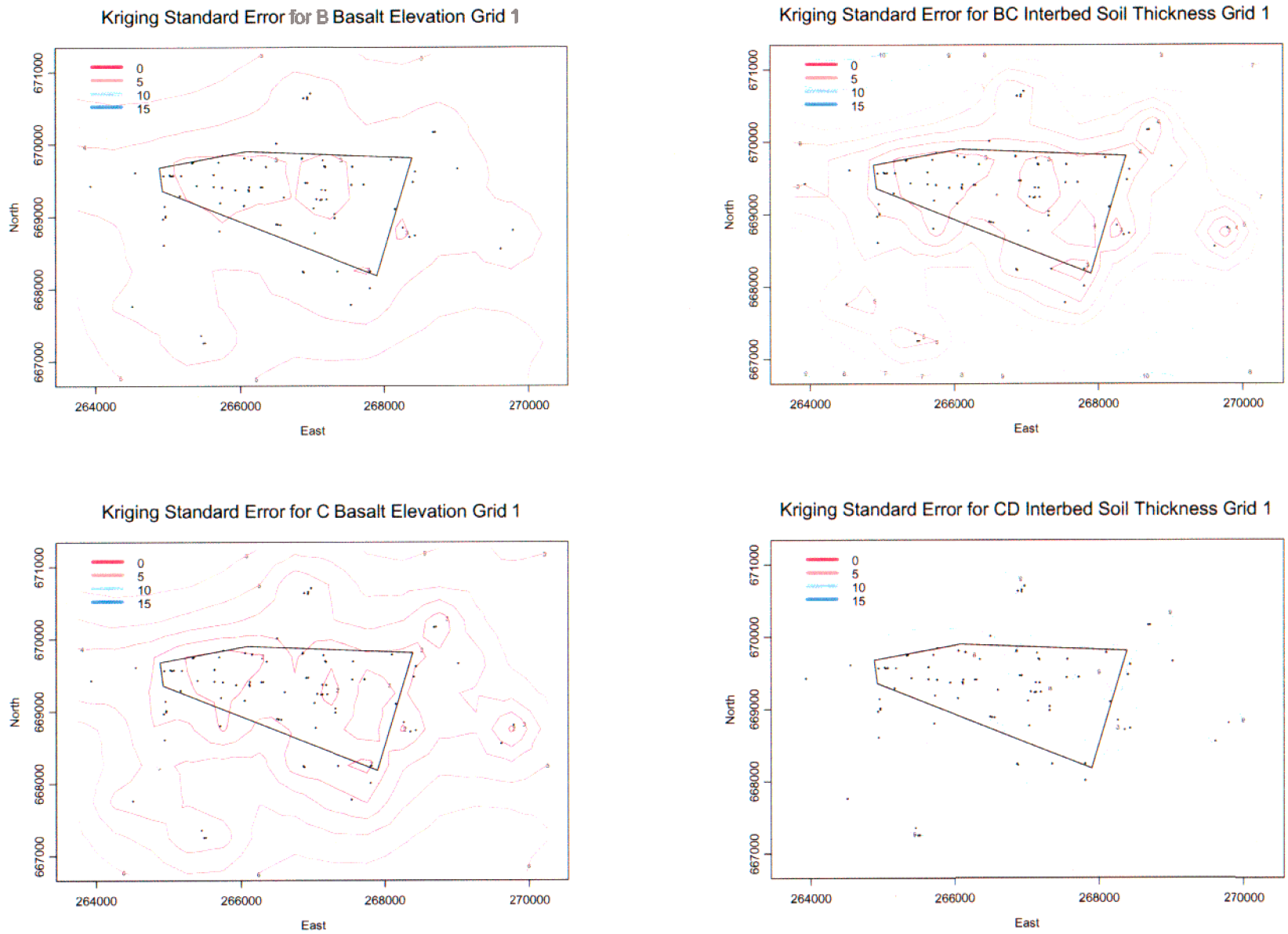


Figure B-2. (continued).

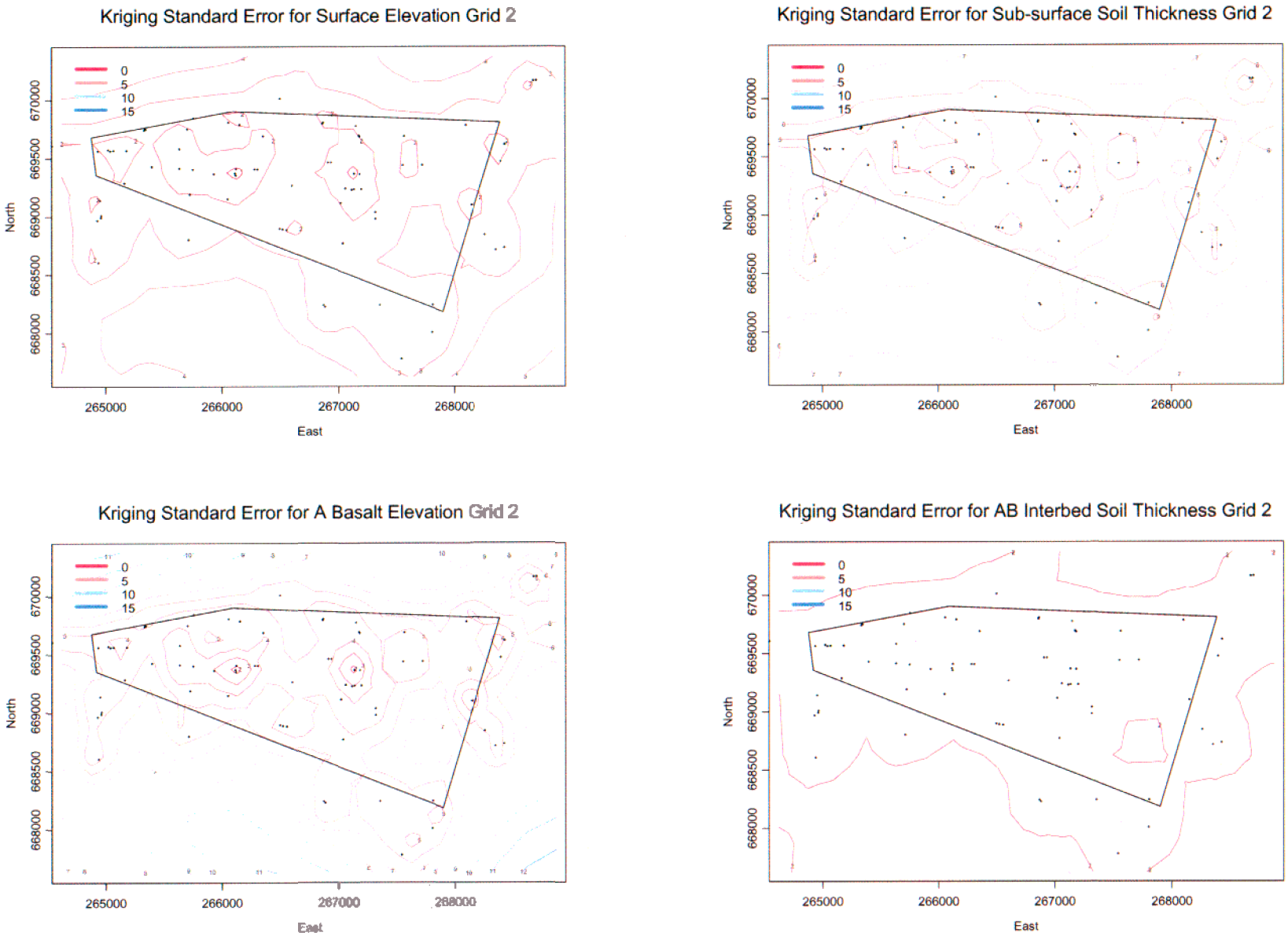


Figure B-2. (continued).

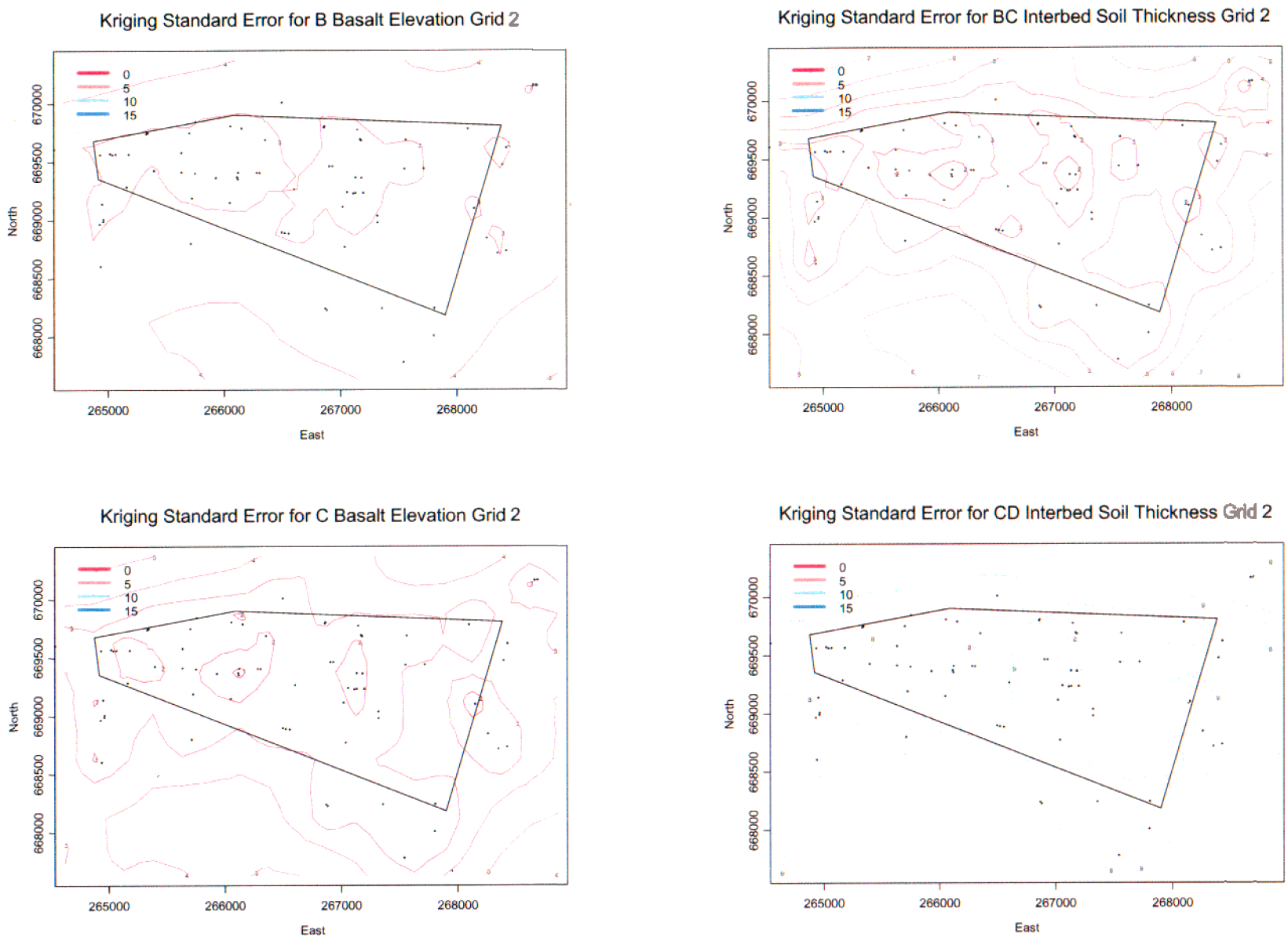


Figure B-2. (continued).

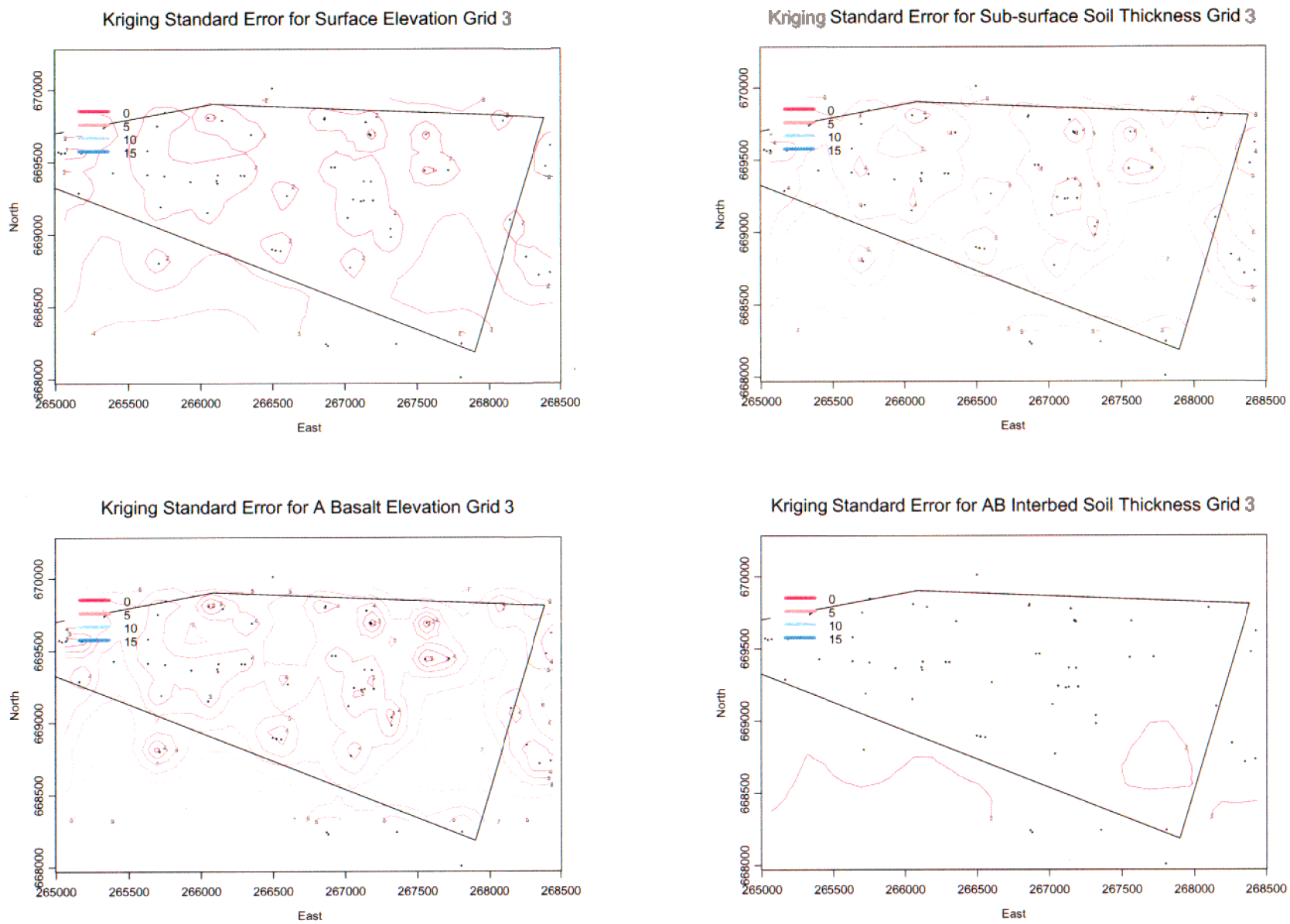


Figure B-2. (continued).

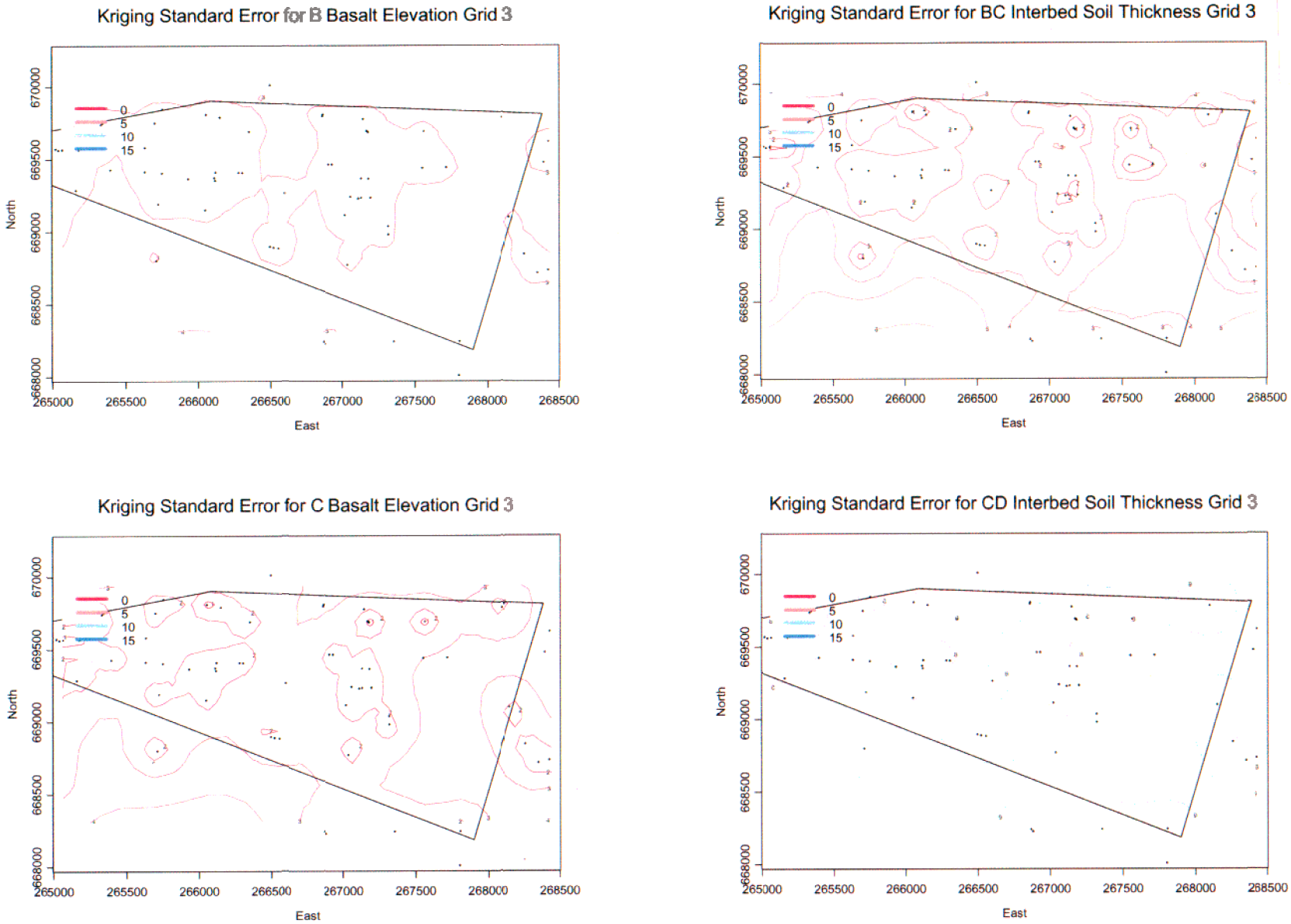
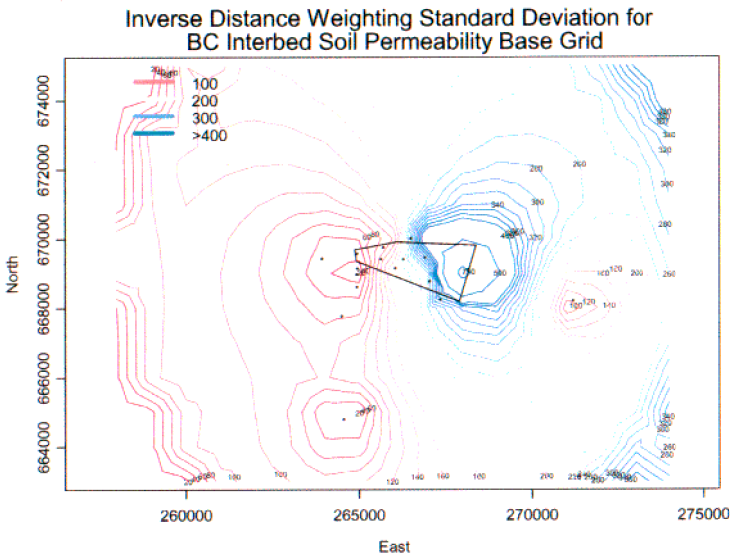
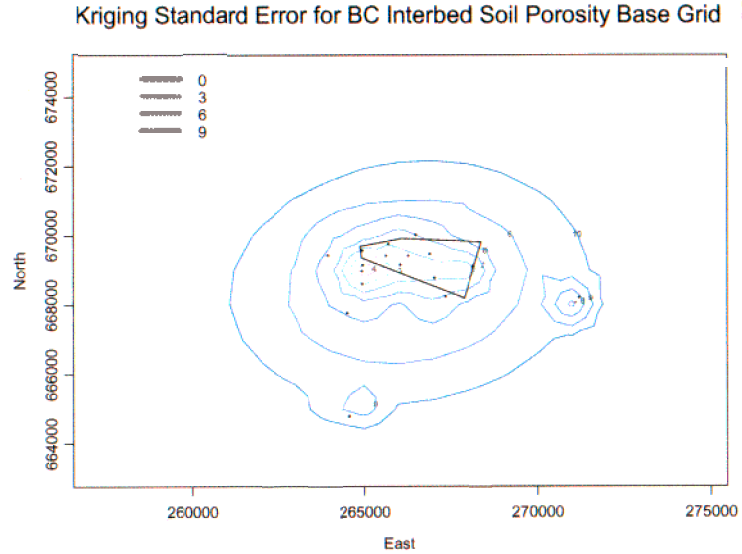
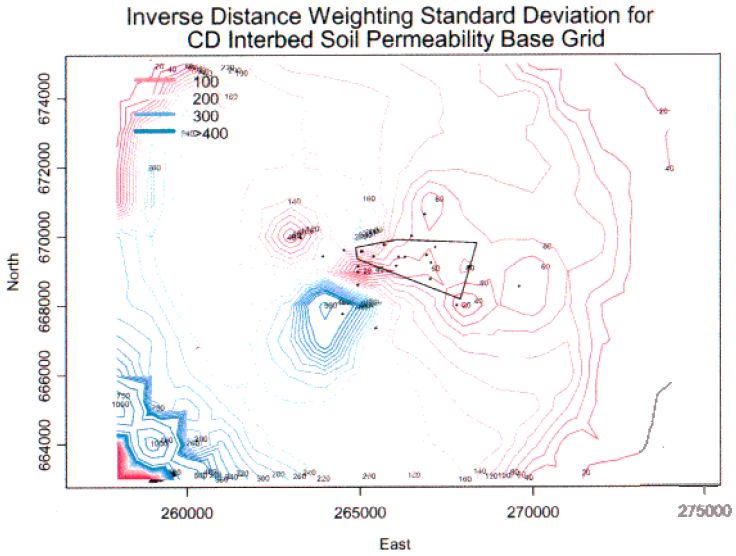


Figure B-2. (continued).







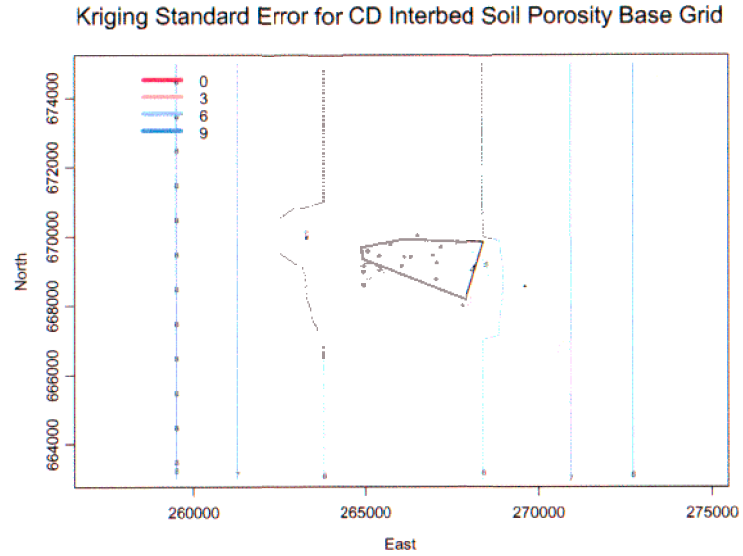
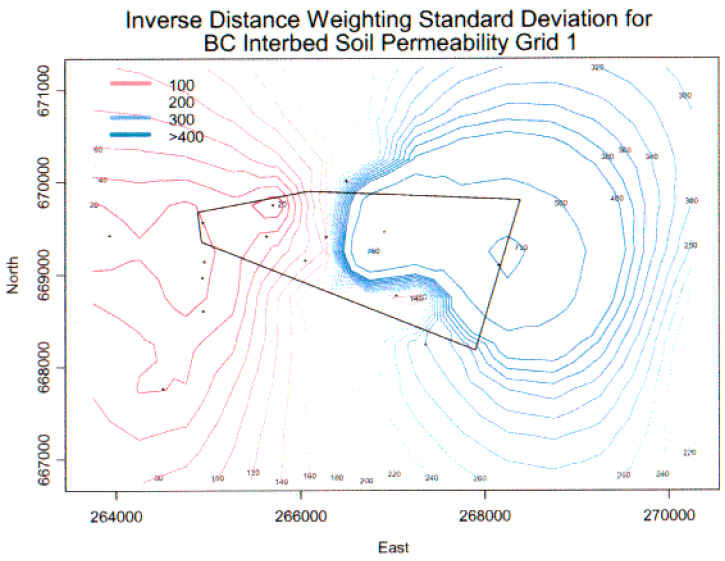
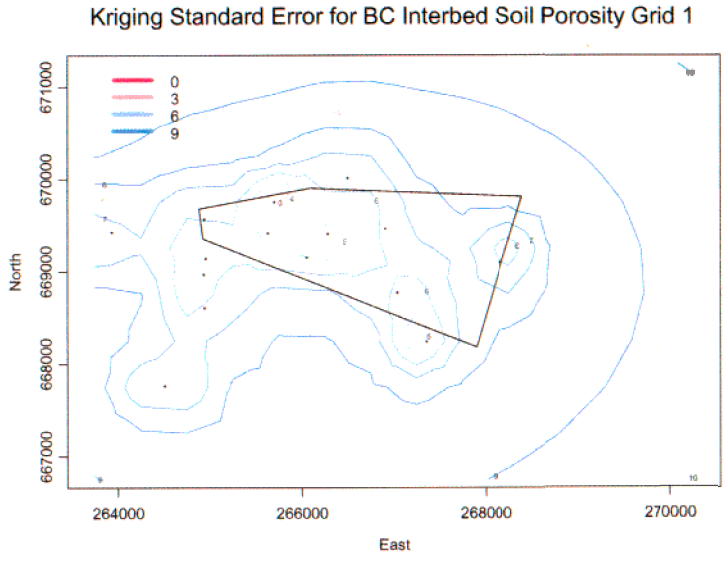
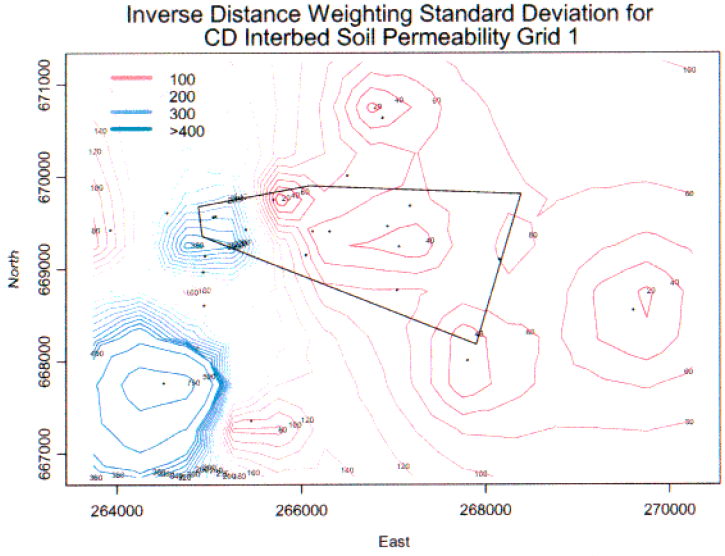
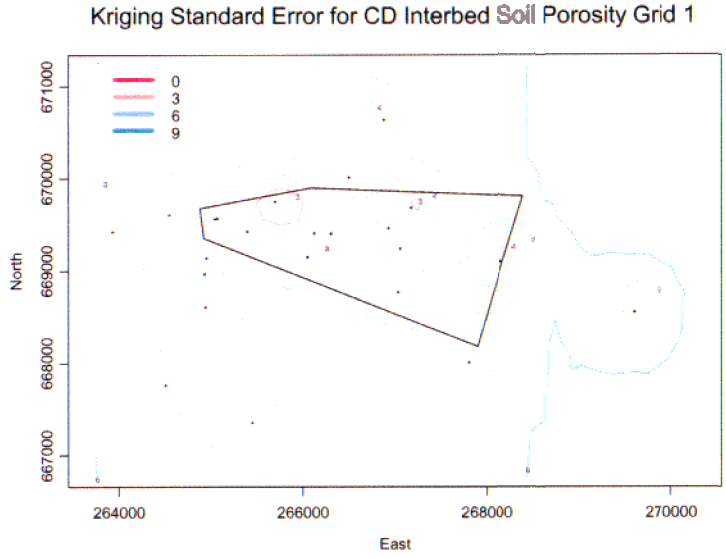


Figure B-2. (continued).









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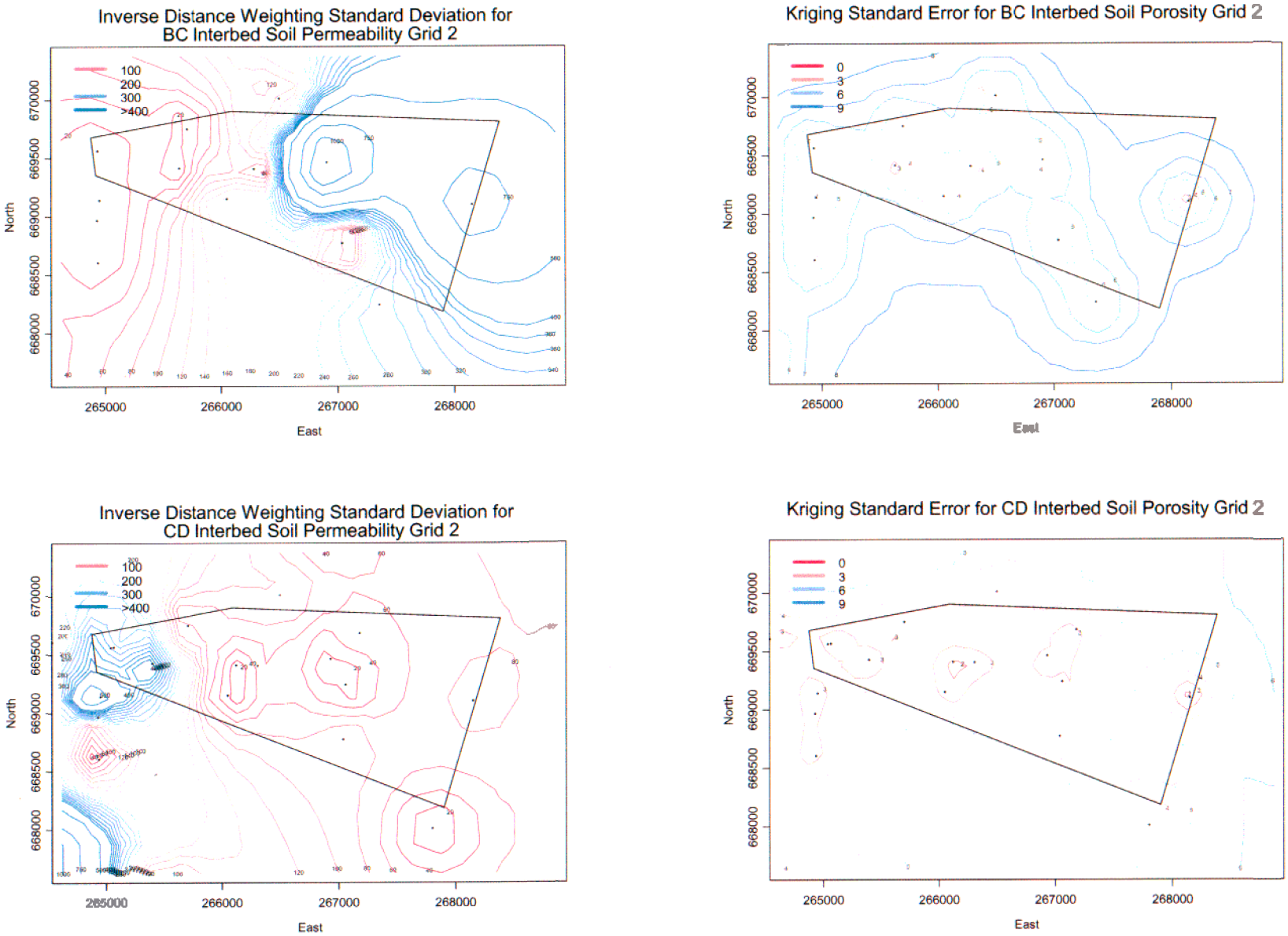
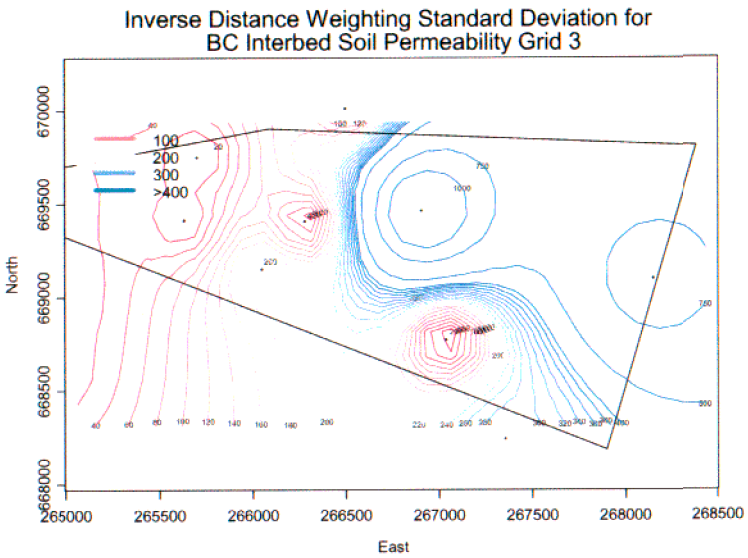
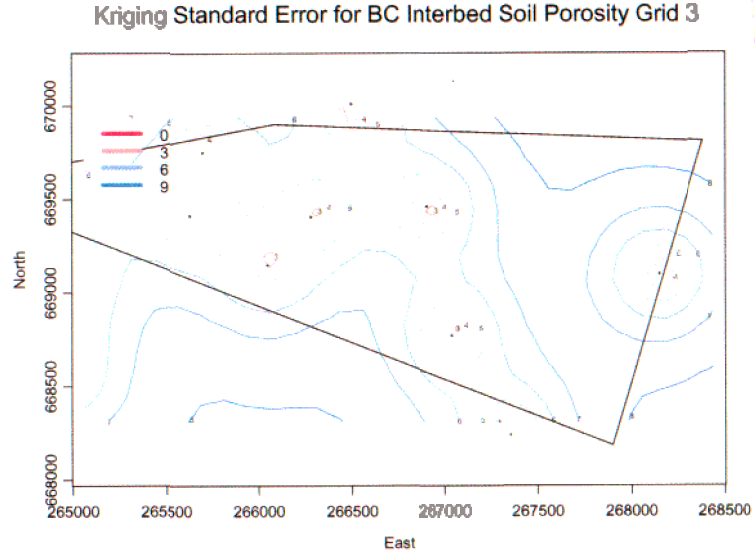
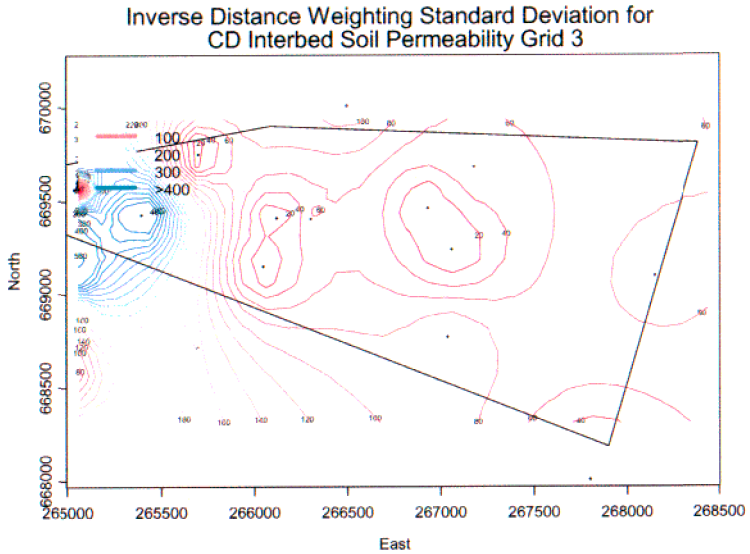


Figure B-2. (continued).







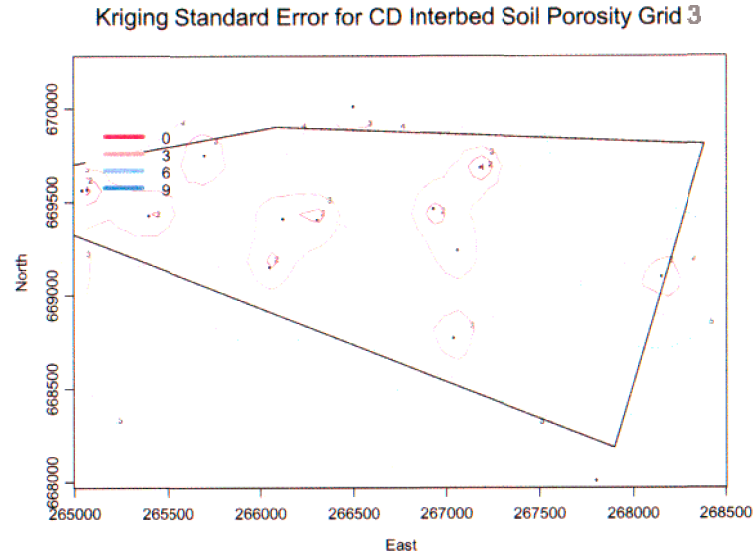
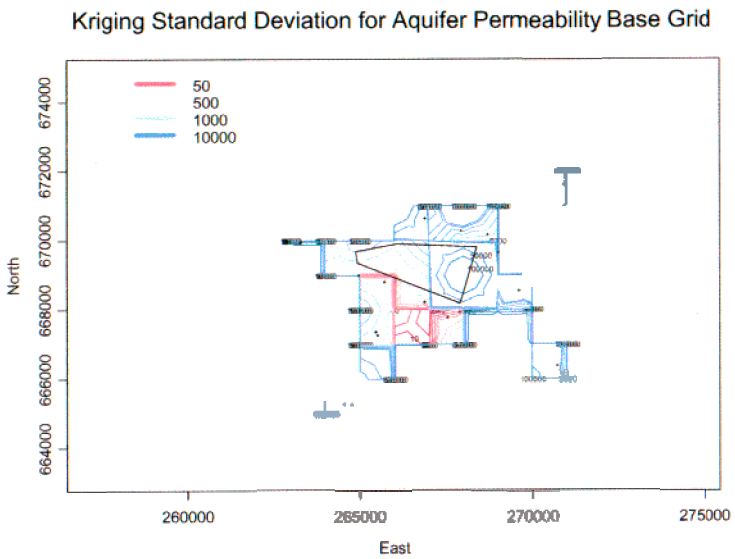
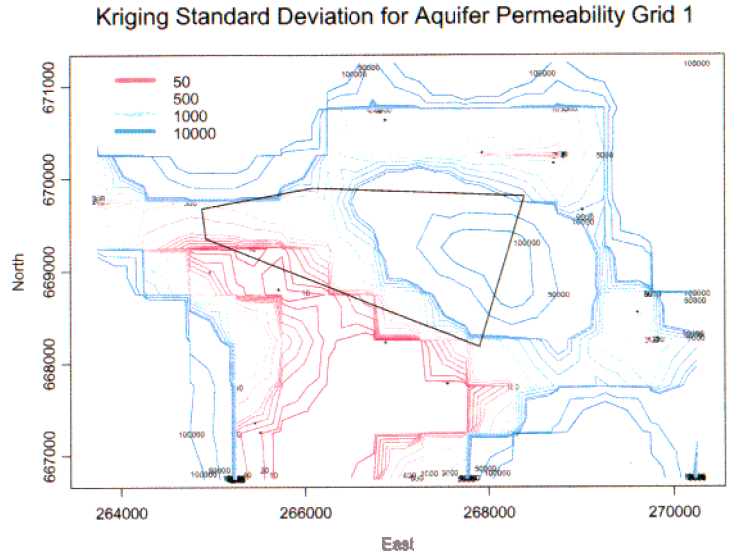
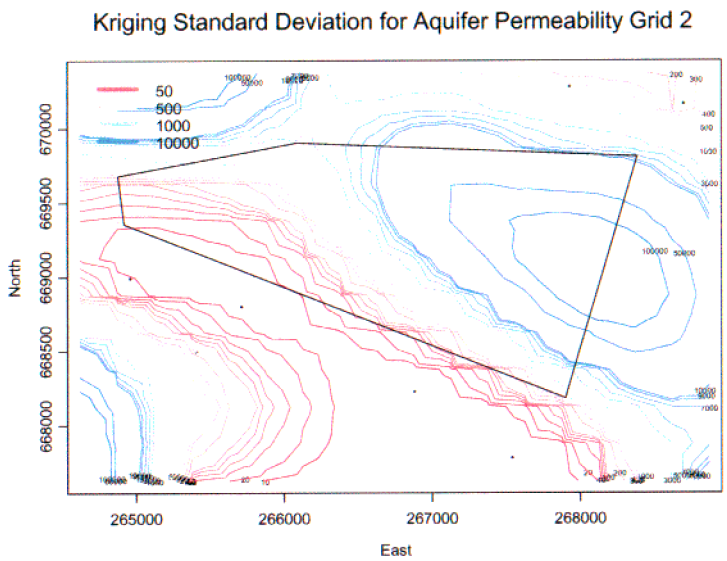


Figure B-2. (continued).







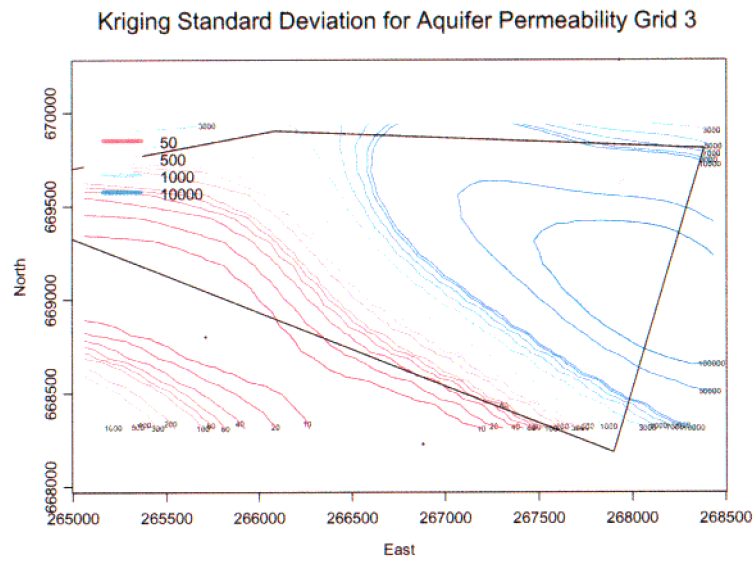


Figure B-2. (continued).

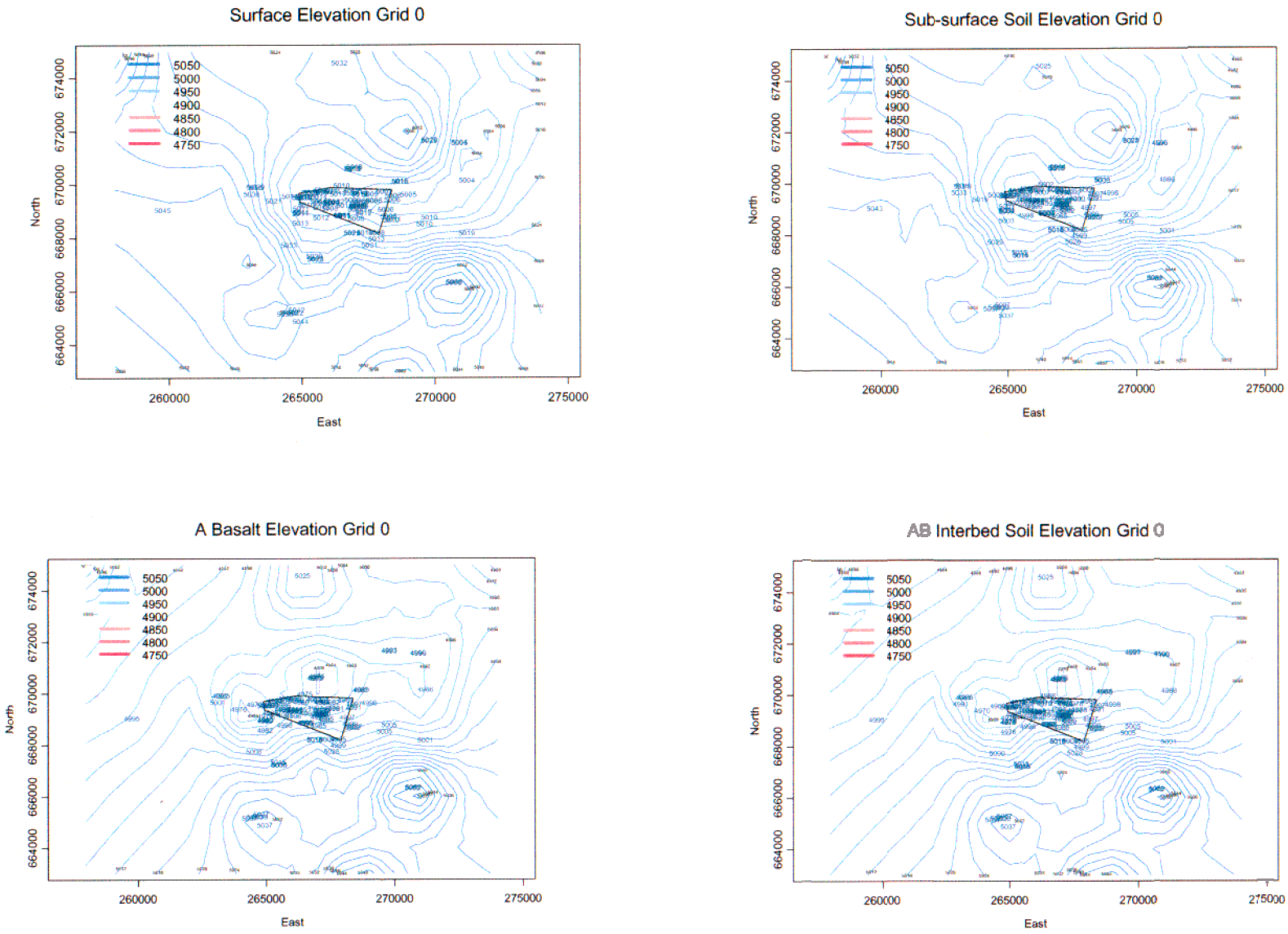


Figure B-3. Prediction Maps.

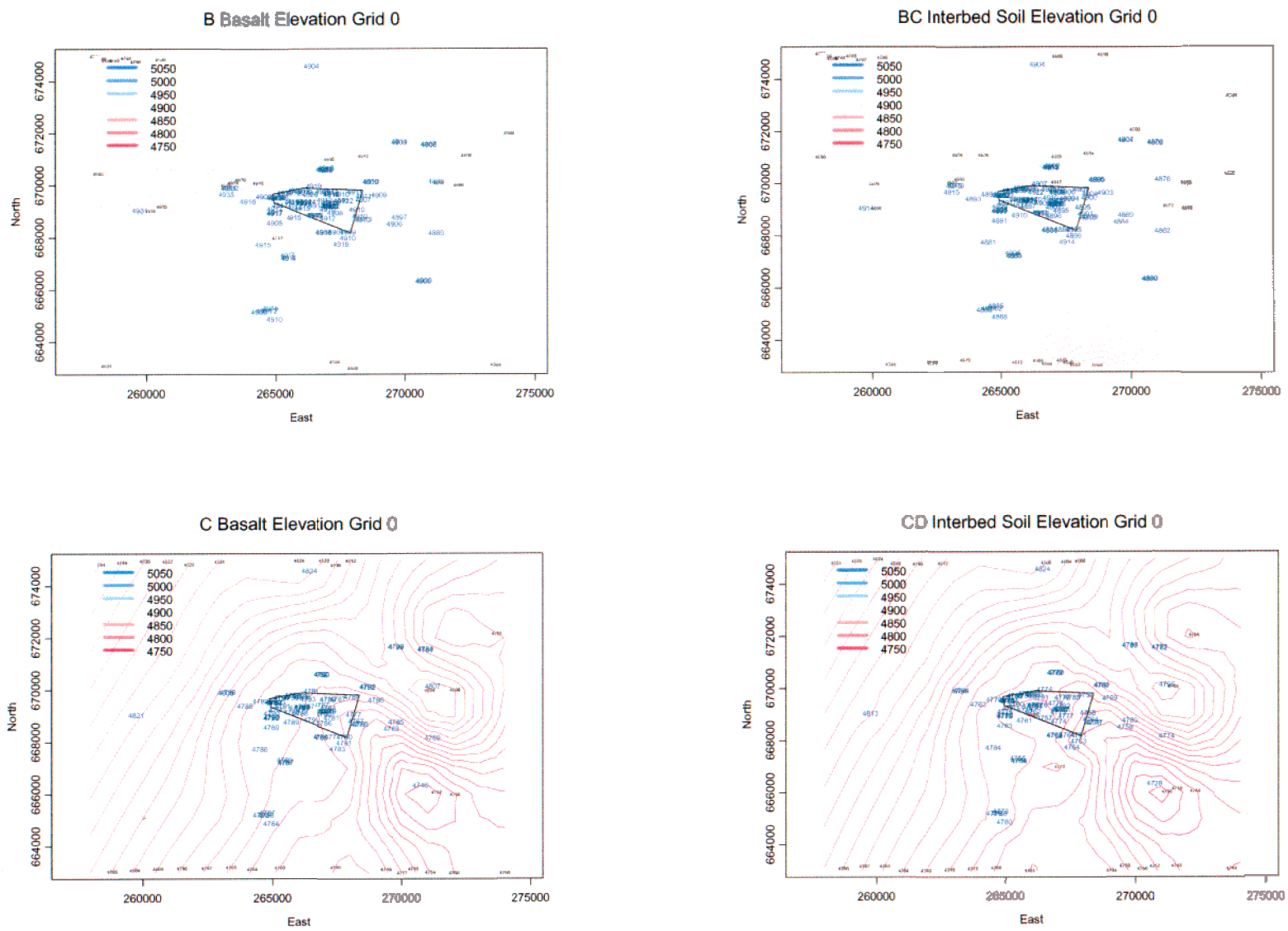


Figure B-3. (continued).

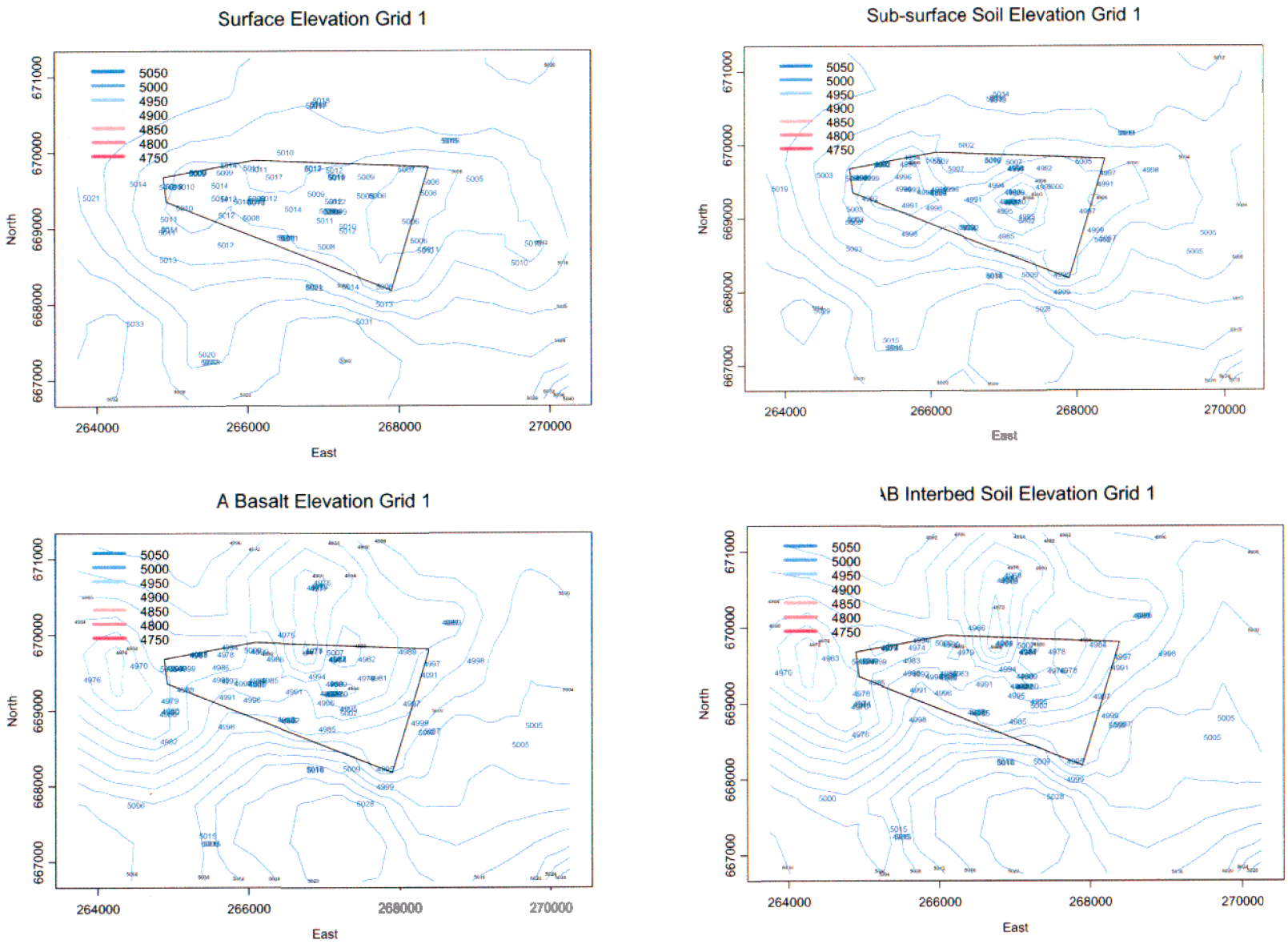
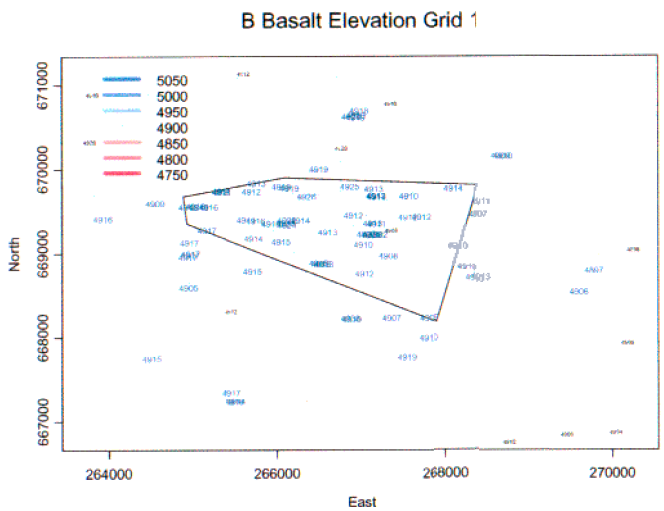
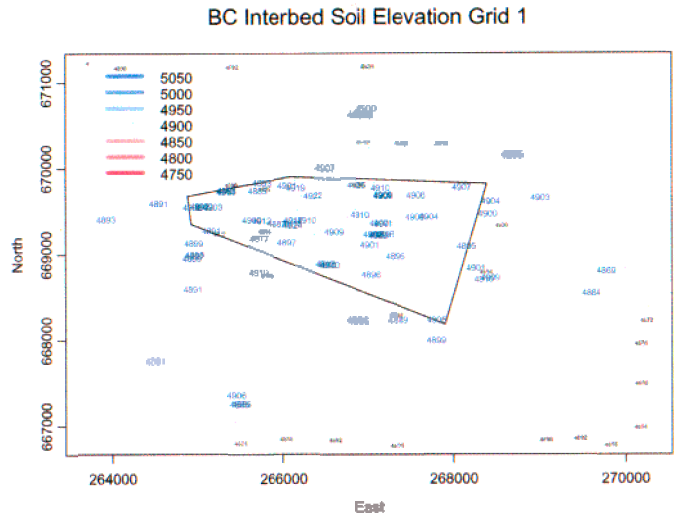
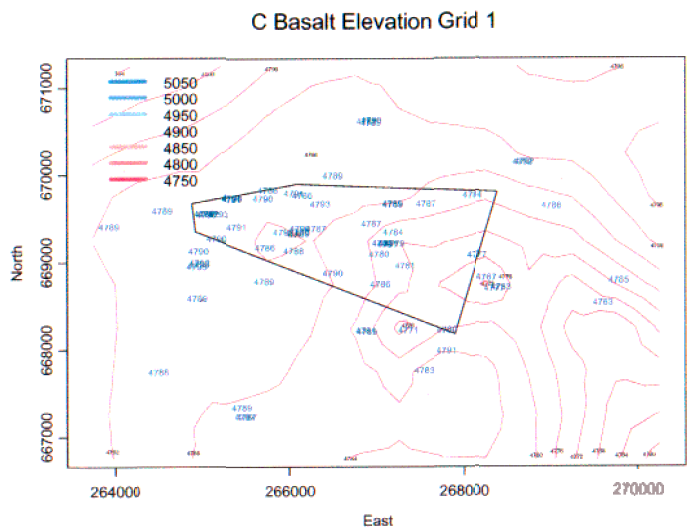


Figure B-3. (continued).







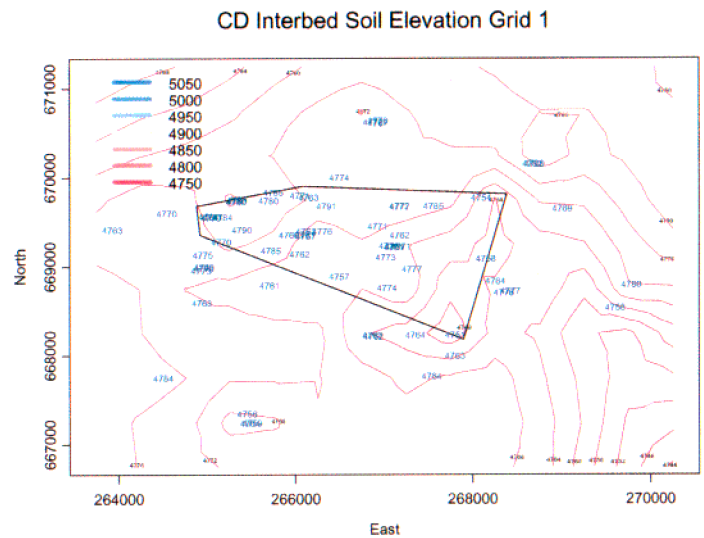


Figure B-3. (continued).

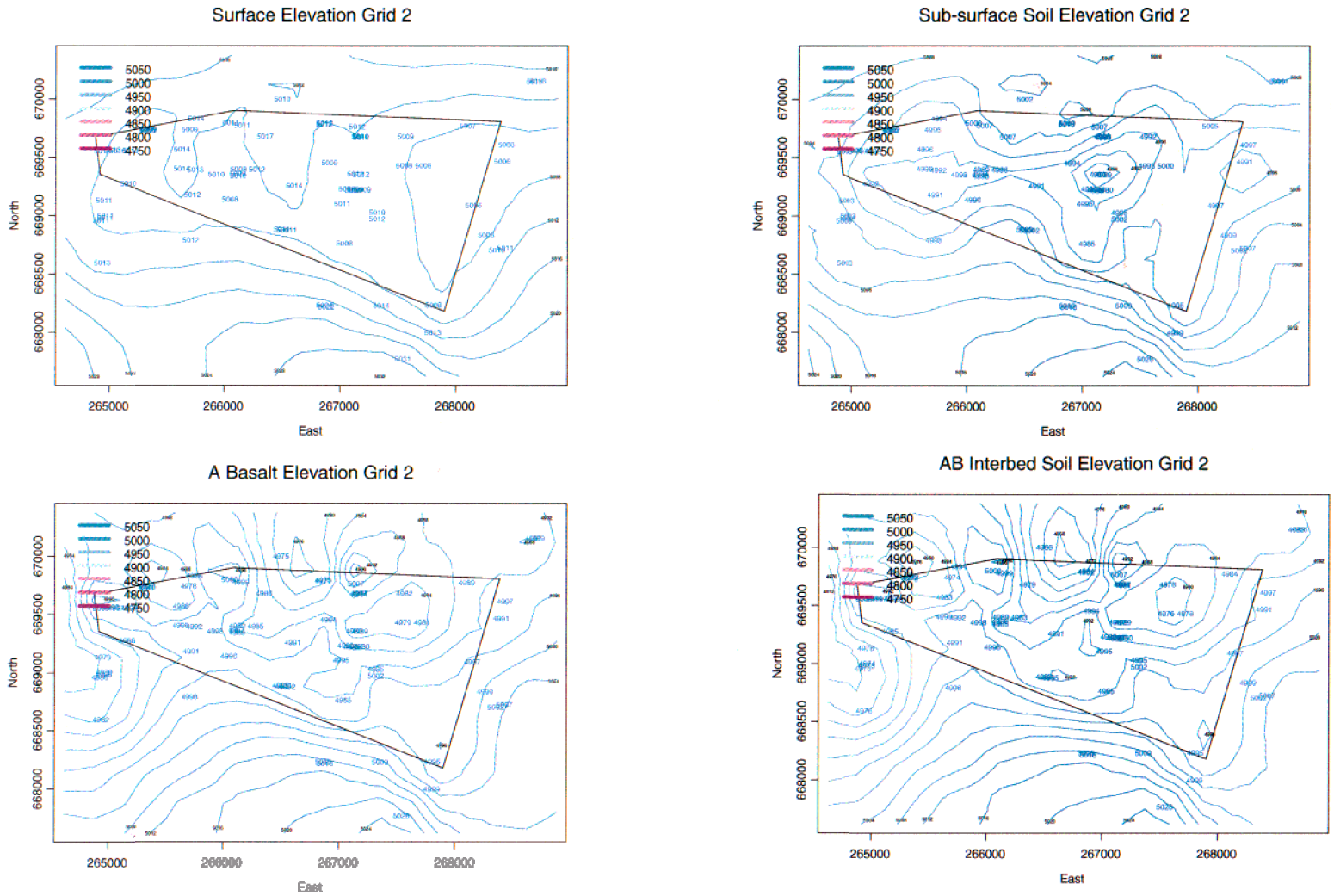
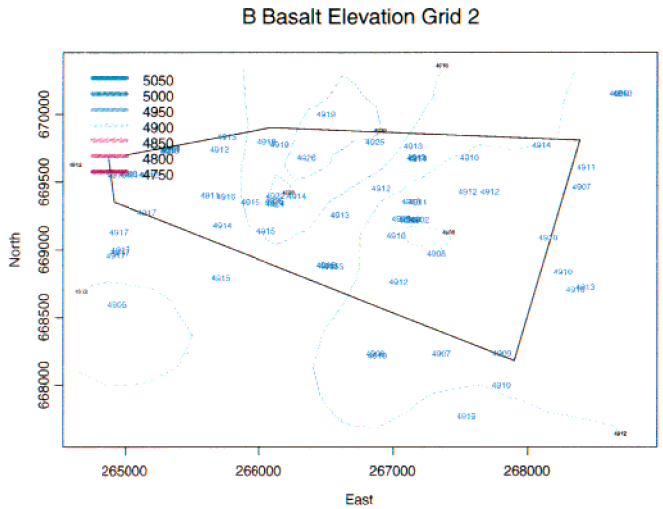
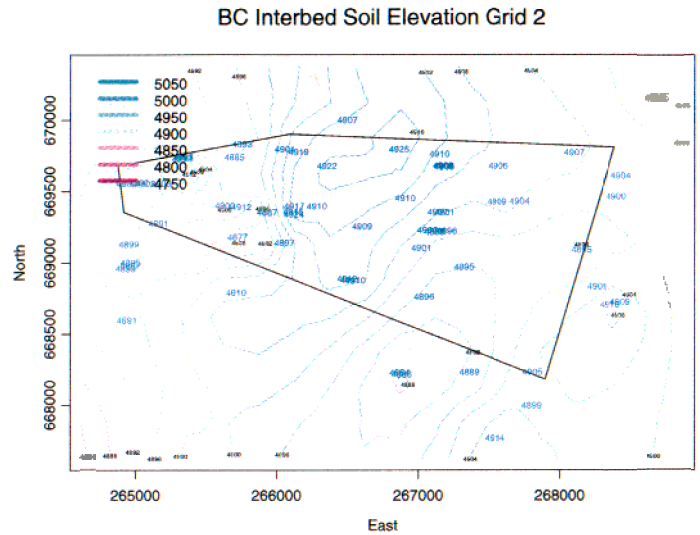
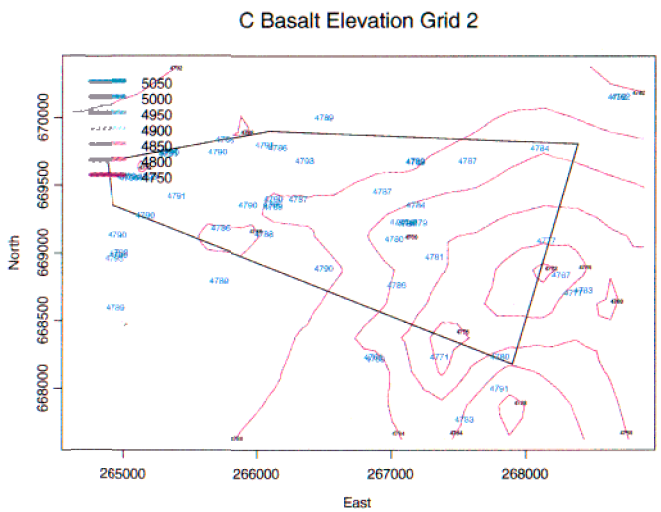


Figure B-3. (continued).







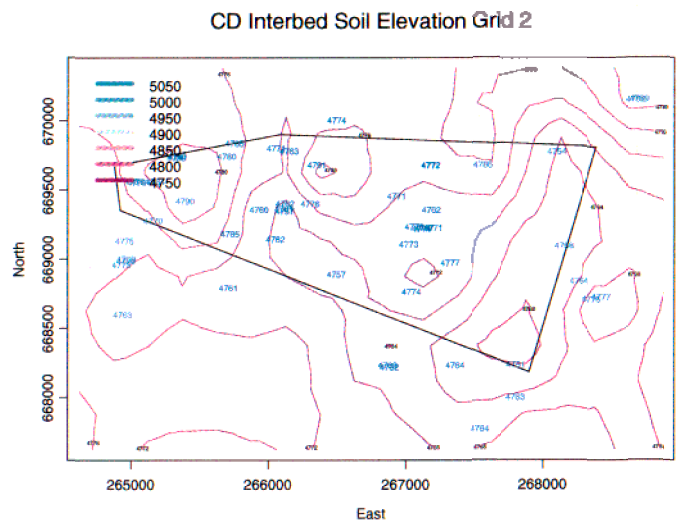


Figure B-3. (continued).

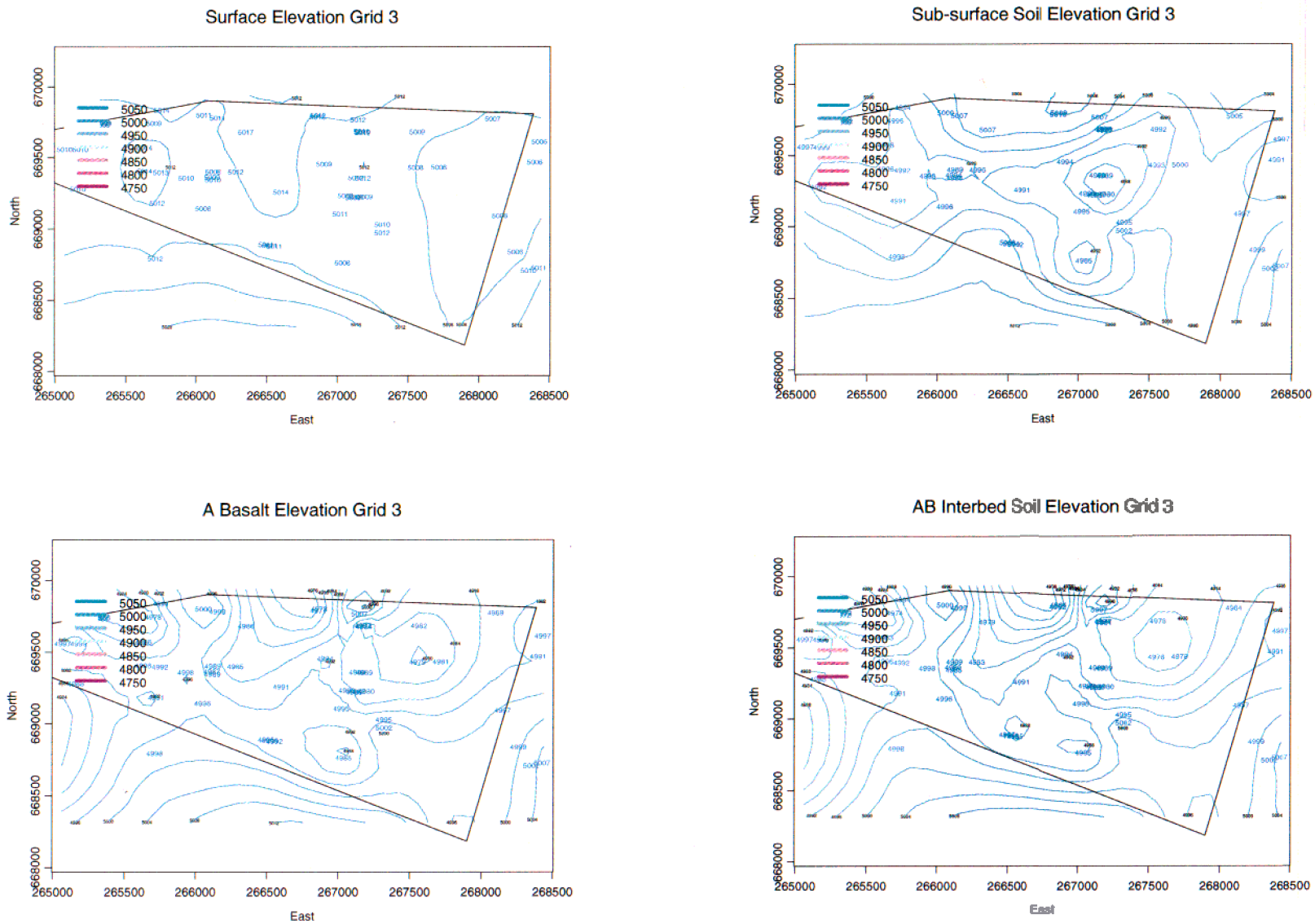


Figure B-3. (continued).

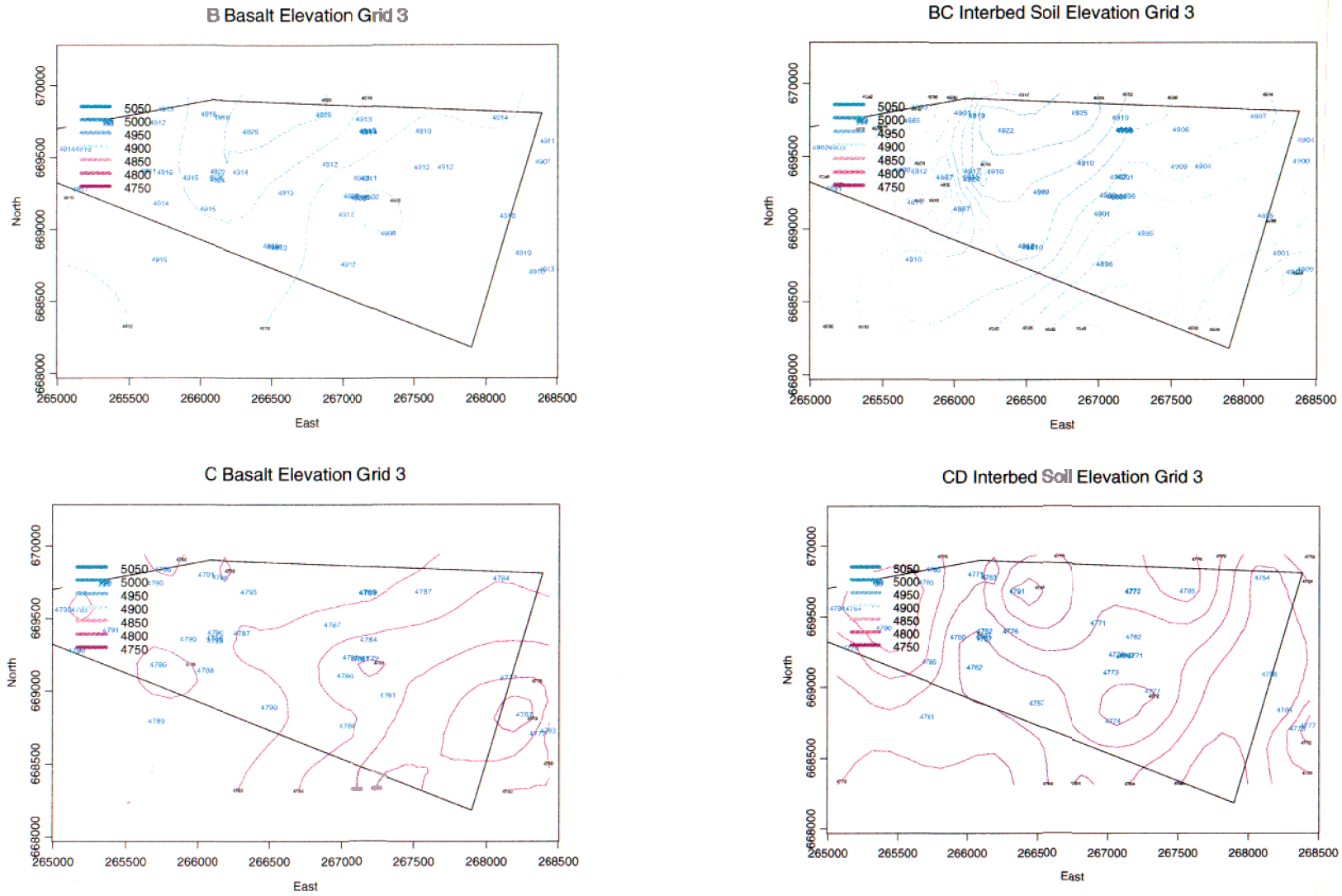


Figure B-3. (continued).

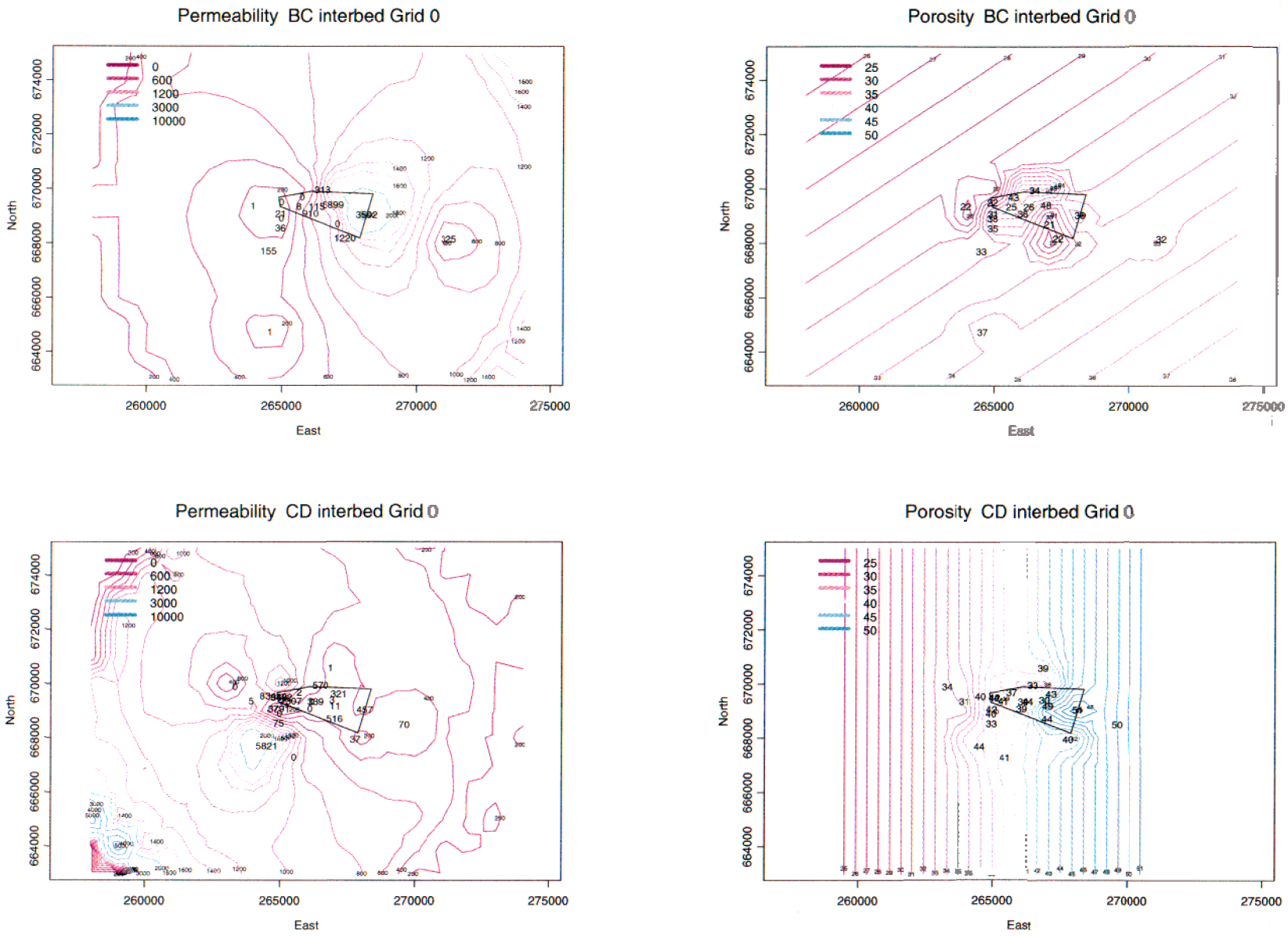


Figure B-3. (continued).

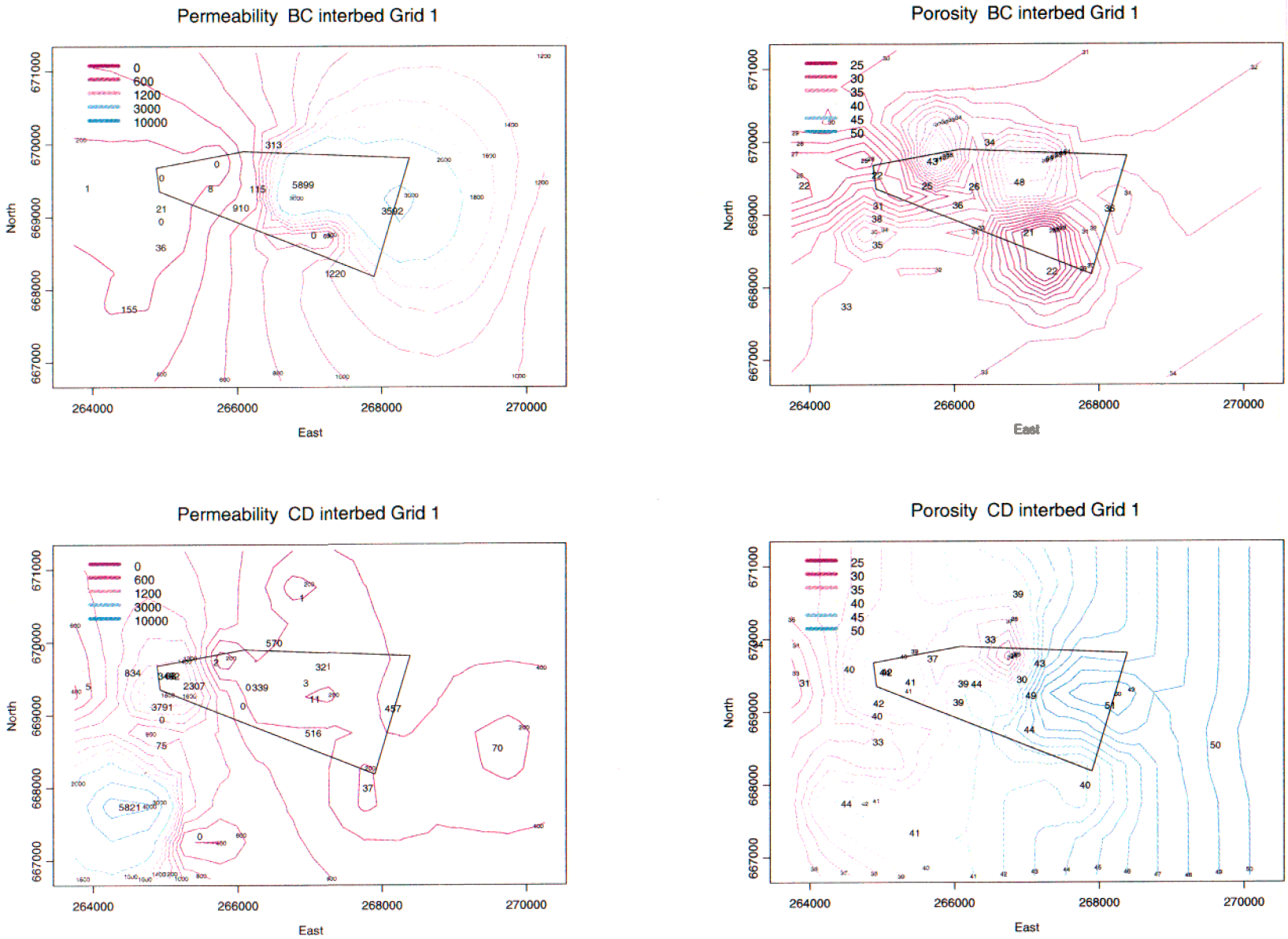
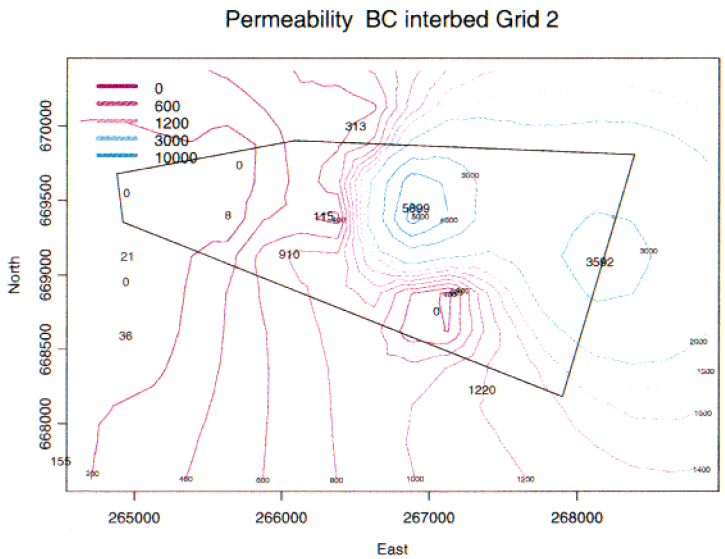
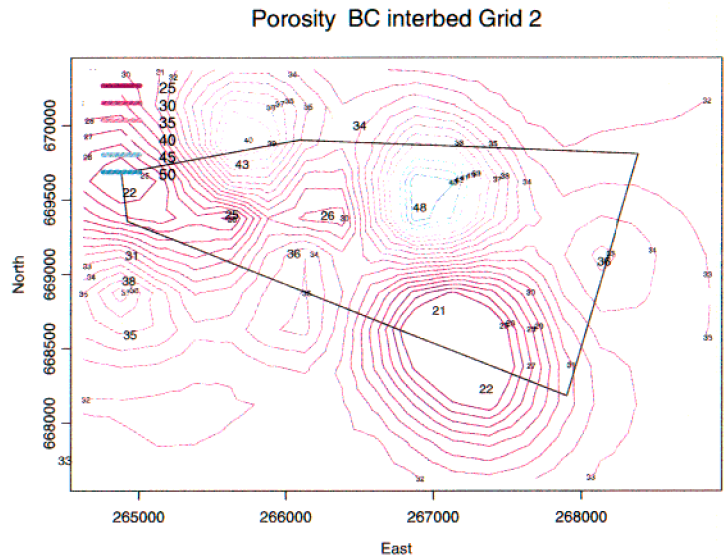
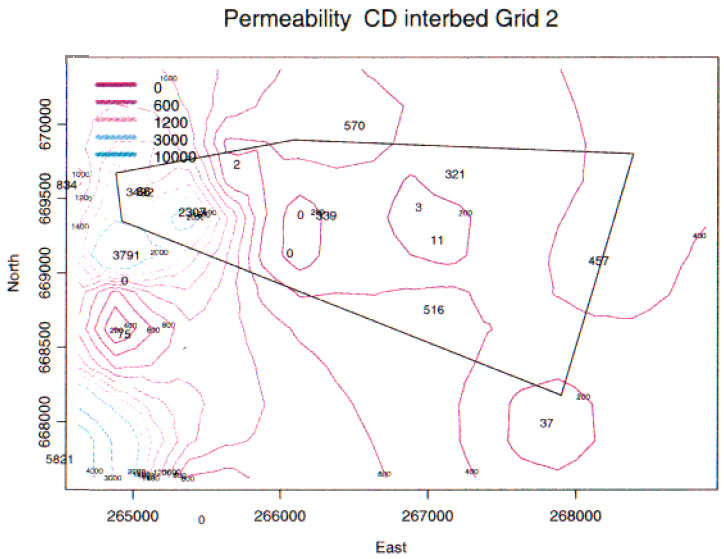


Figure B-3. (continued).







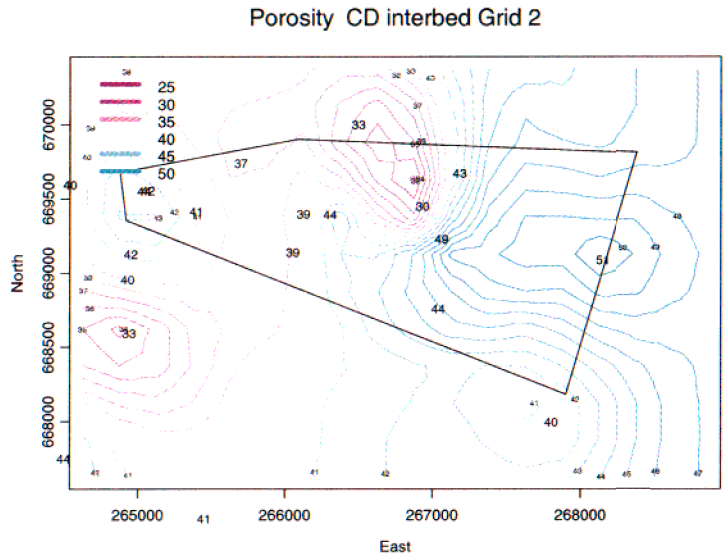


Figure B-3. (continued).

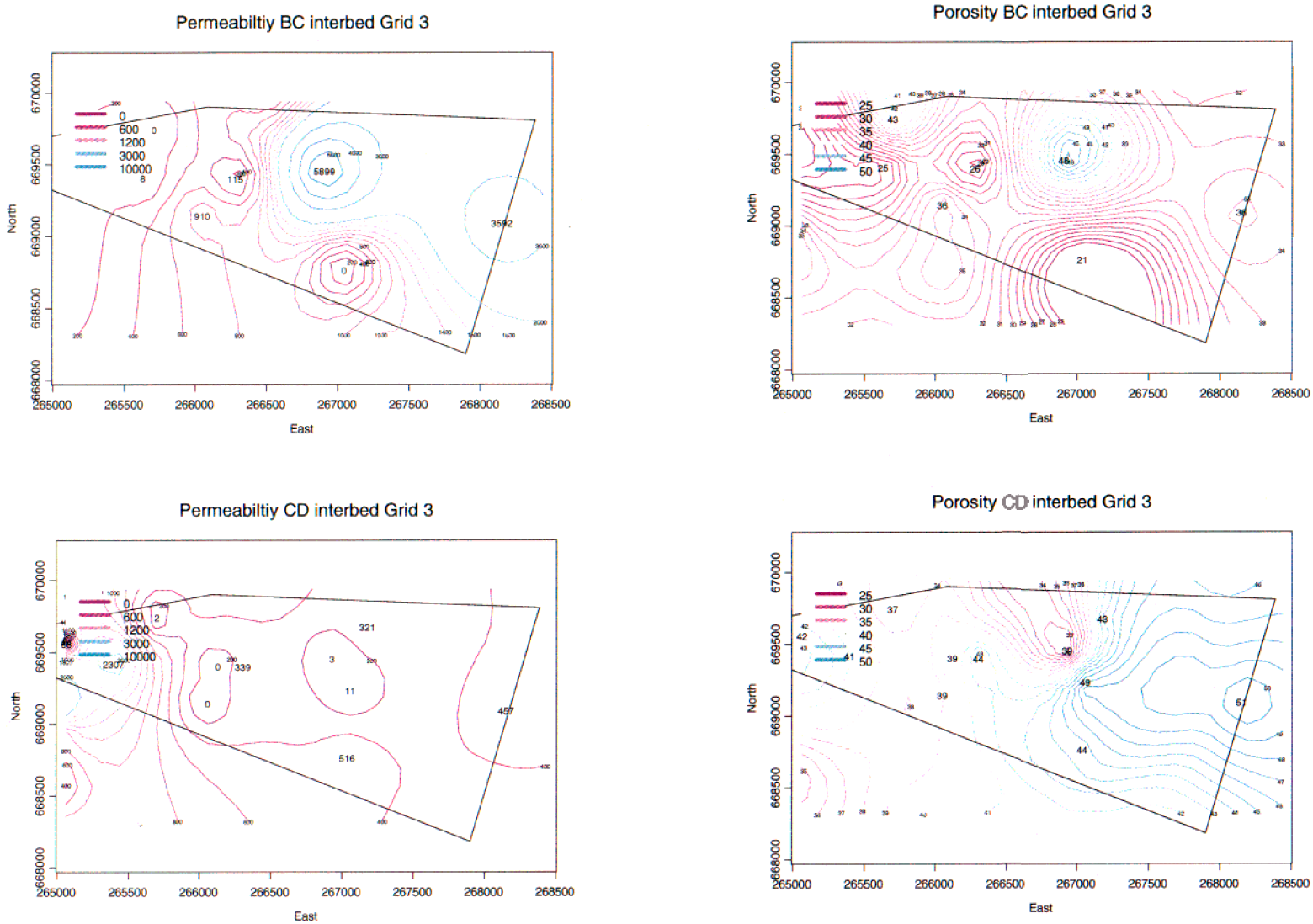


Figure B-3. (continued).

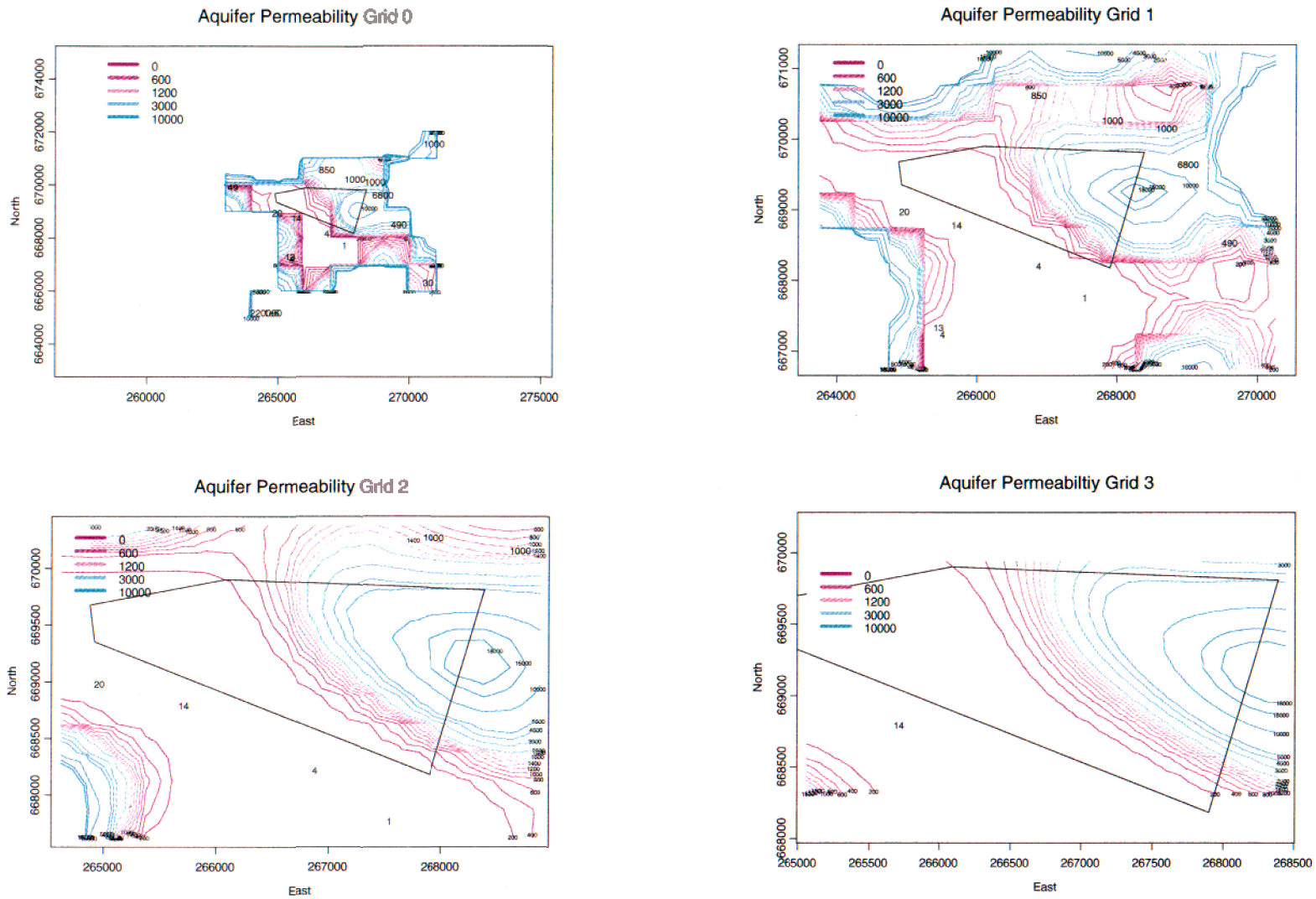


Figure B-3. (continued).