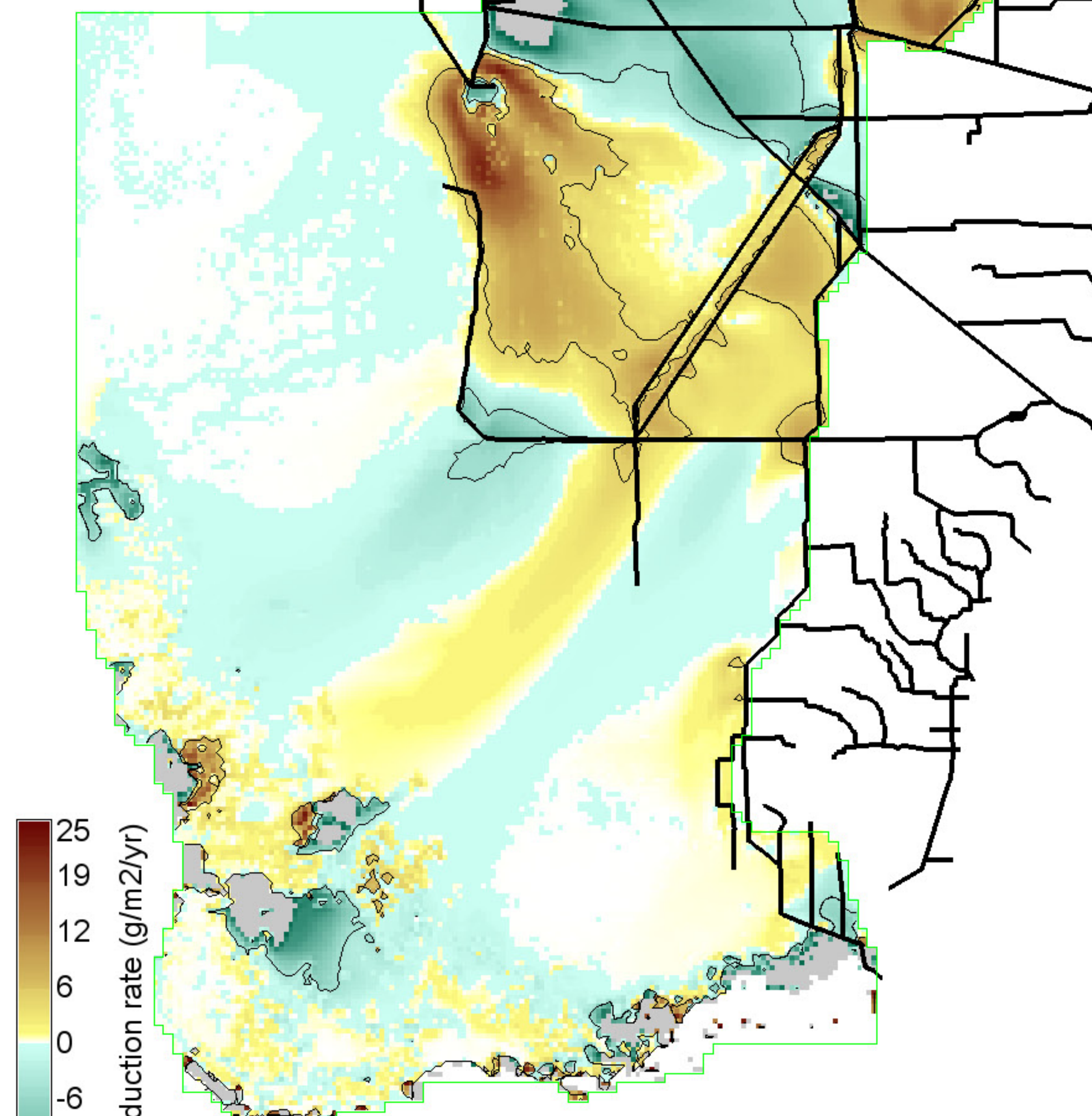


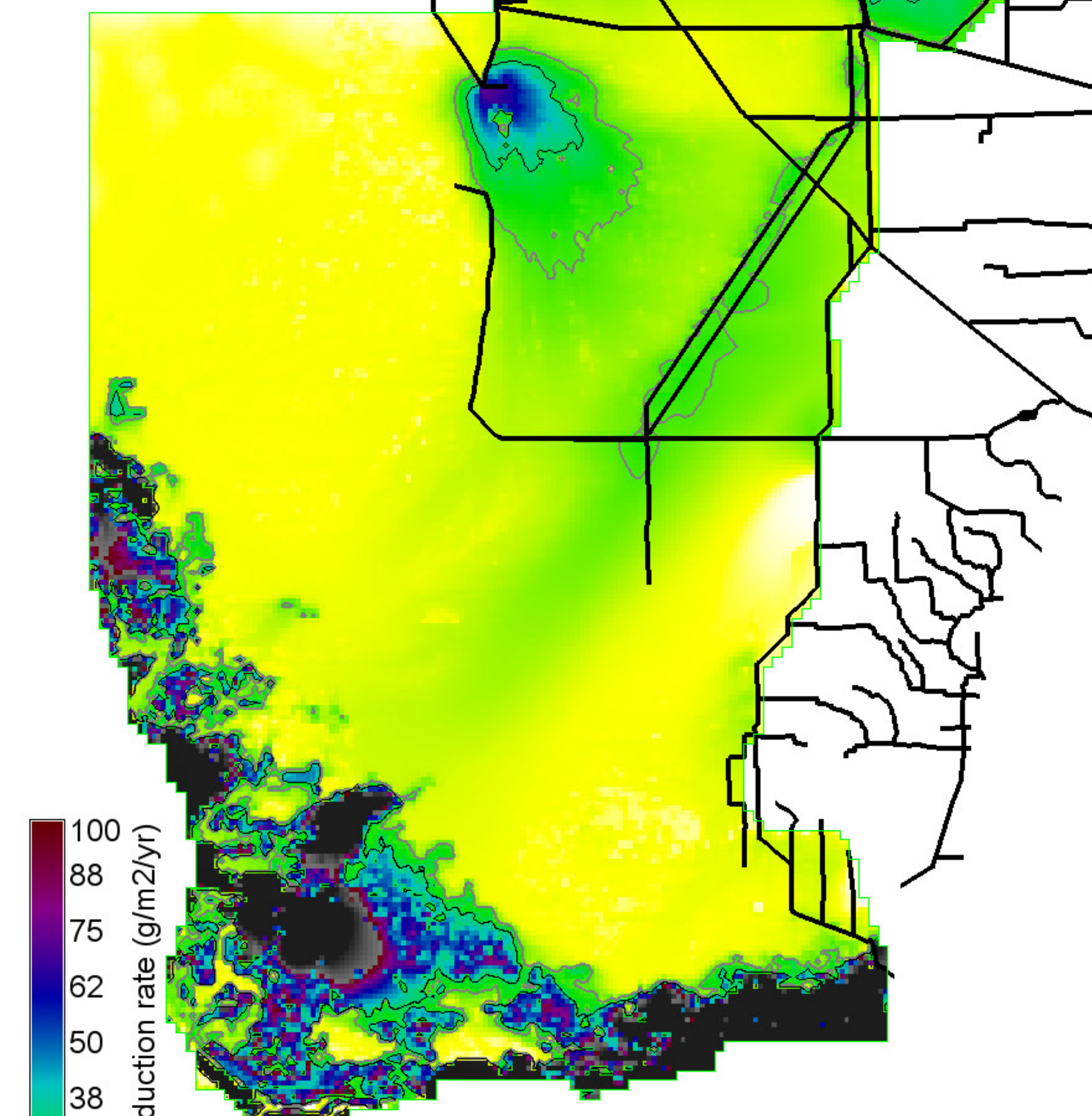
SO4 reduction rate (g/m<sup>2</sup>/yr)

Grey, black isolines at 15, 30 g/m<sup>2</sup>/yr  
 280000 ha of landscape is  $\geq 15$  a/m<sup>2</sup>/yr  
 157875 ha of landscape is  $\geq 30$  g/m<sup>2</sup>/yr  
 1039400 ha in landscape  
 0 = white; black = values  $\gg$  scale (estuarine)



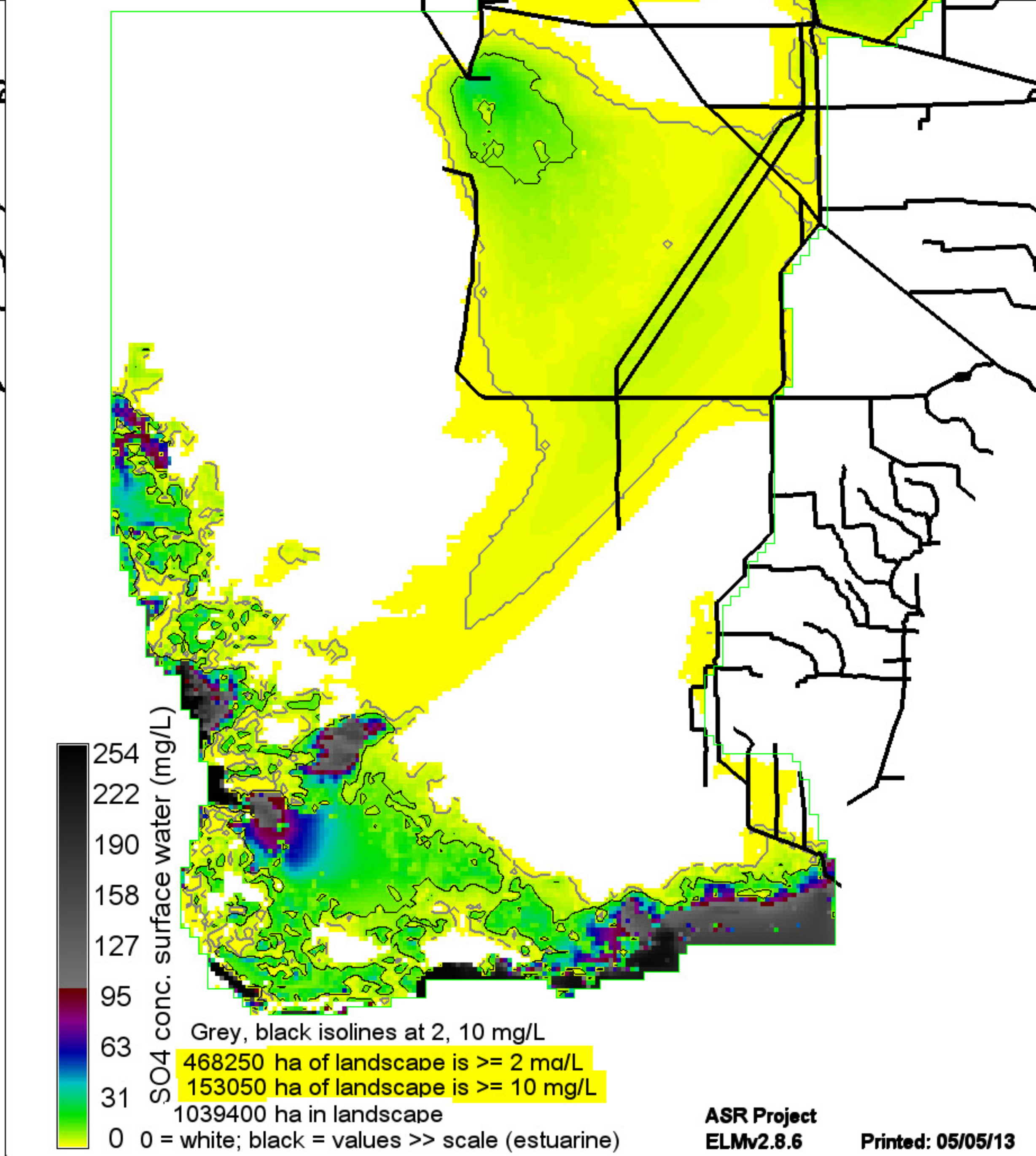
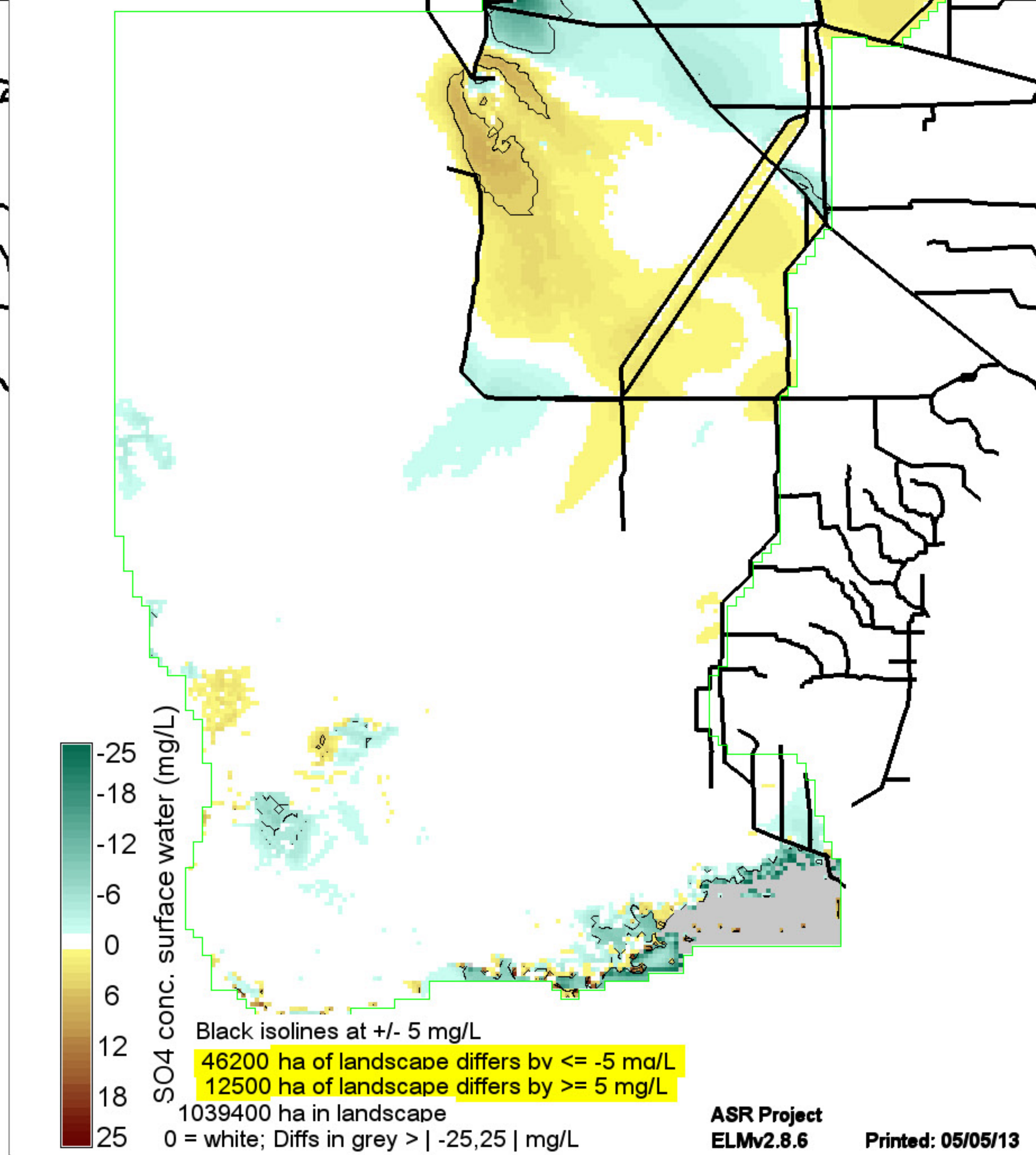
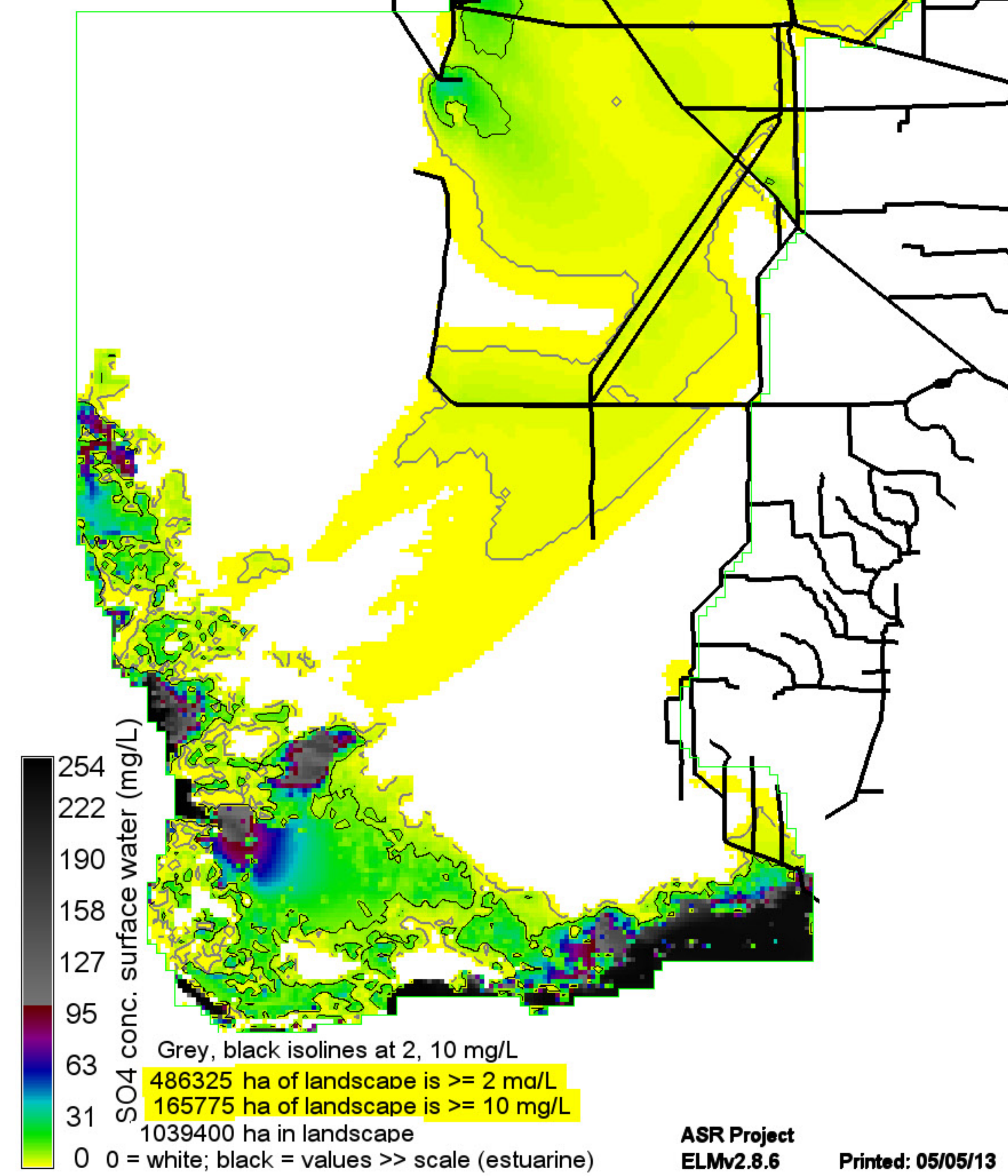
SO4 reduction rate (g/m<sup>2</sup>/yr)

Black isolines at +/- 5 g/m<sup>2</sup>/yr  
 139025 ha of landscape differs by  $\leq -5$  a/m<sup>2</sup>/yr  
 82425 ha of landscape differs by  $\geq 5$  g/m<sup>2</sup>/yr  
 1039400 ha in landscape  
 0 = white; Diffs in grey  $> | -25, 25 |$  g/m<sup>2</sup>/yr



SO4 reduction rate (g/m<sup>2</sup>/yr)

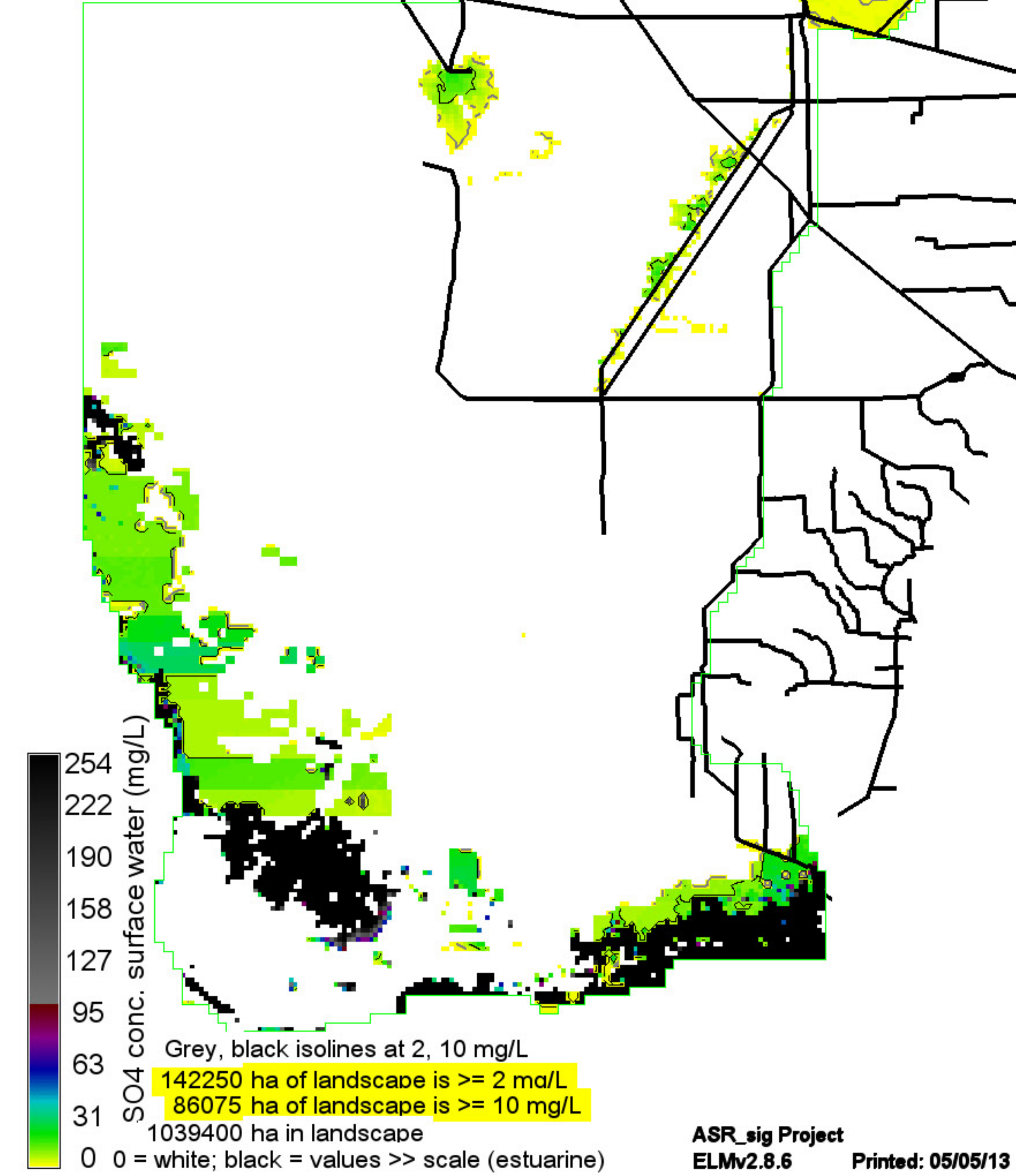
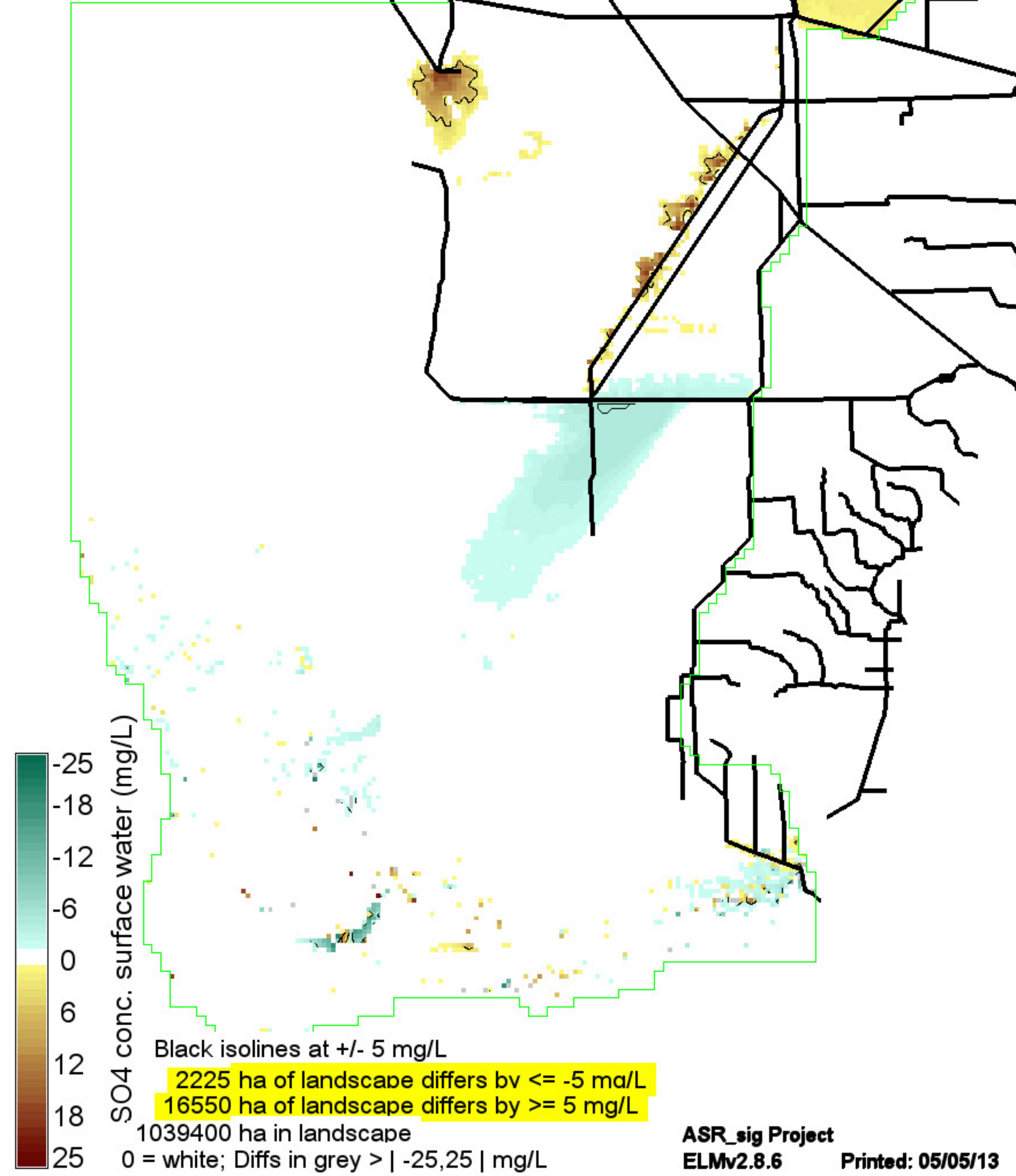
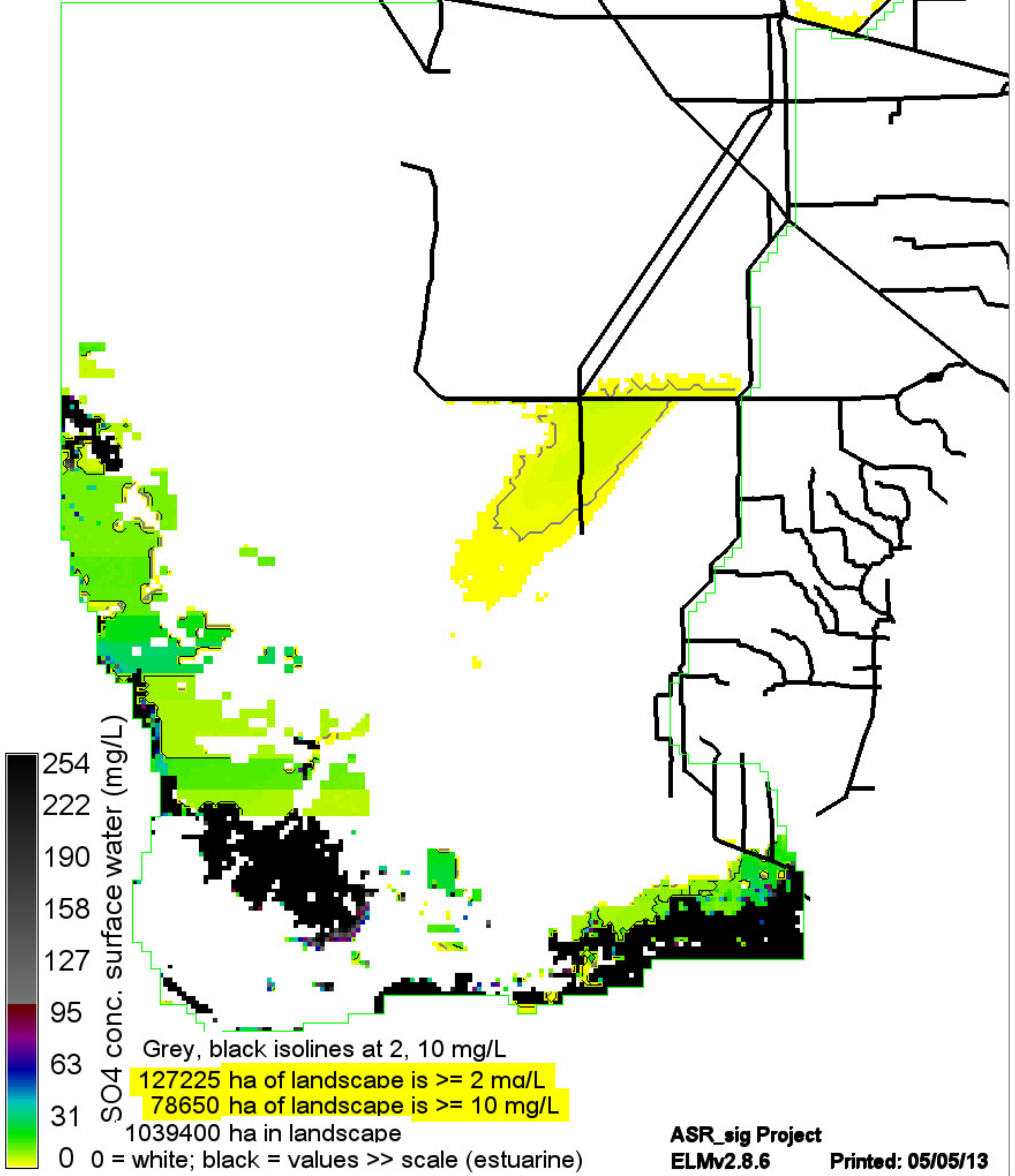
Grey, black isolines at 15, 30 g/m<sup>2</sup>/yr  
 266075 ha of landscape is  $\geq 15$  a/m<sup>2</sup>/yr  
 145075 ha of landscape is  $\geq 30$  g/m<sup>2</sup>/yr  
 1039400 ha in landscape  
 0 = white; black = values  $\gg$  scale (estuarine)

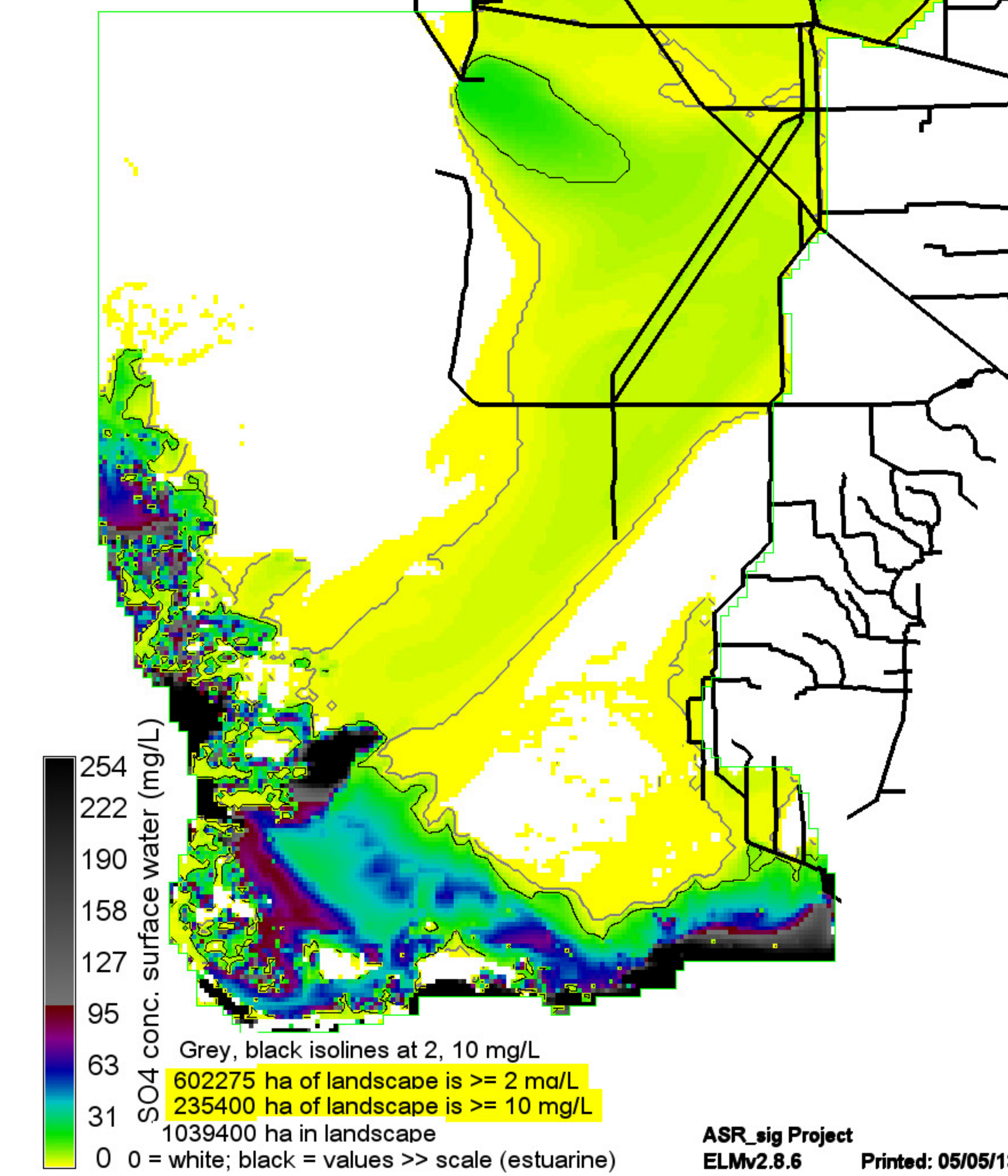
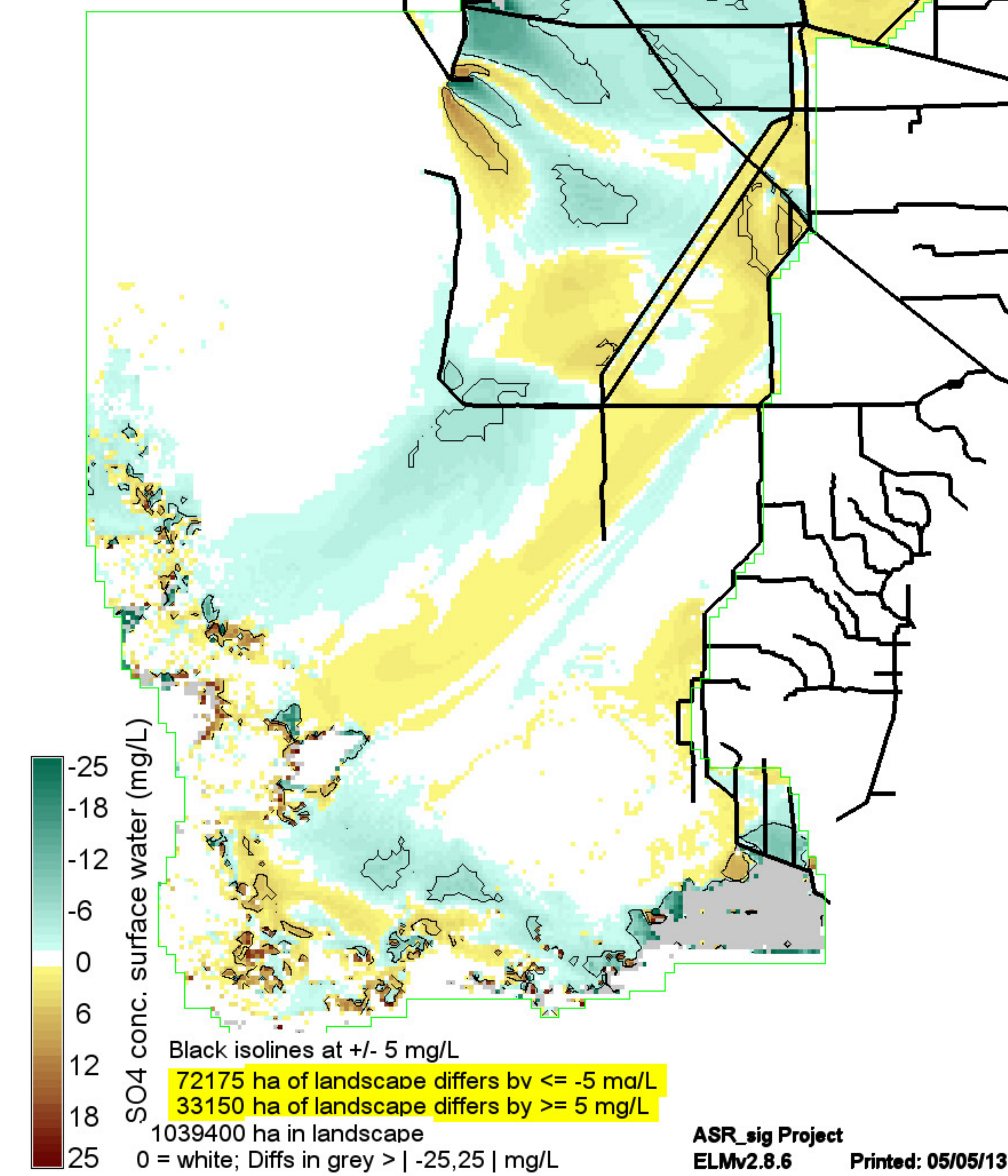
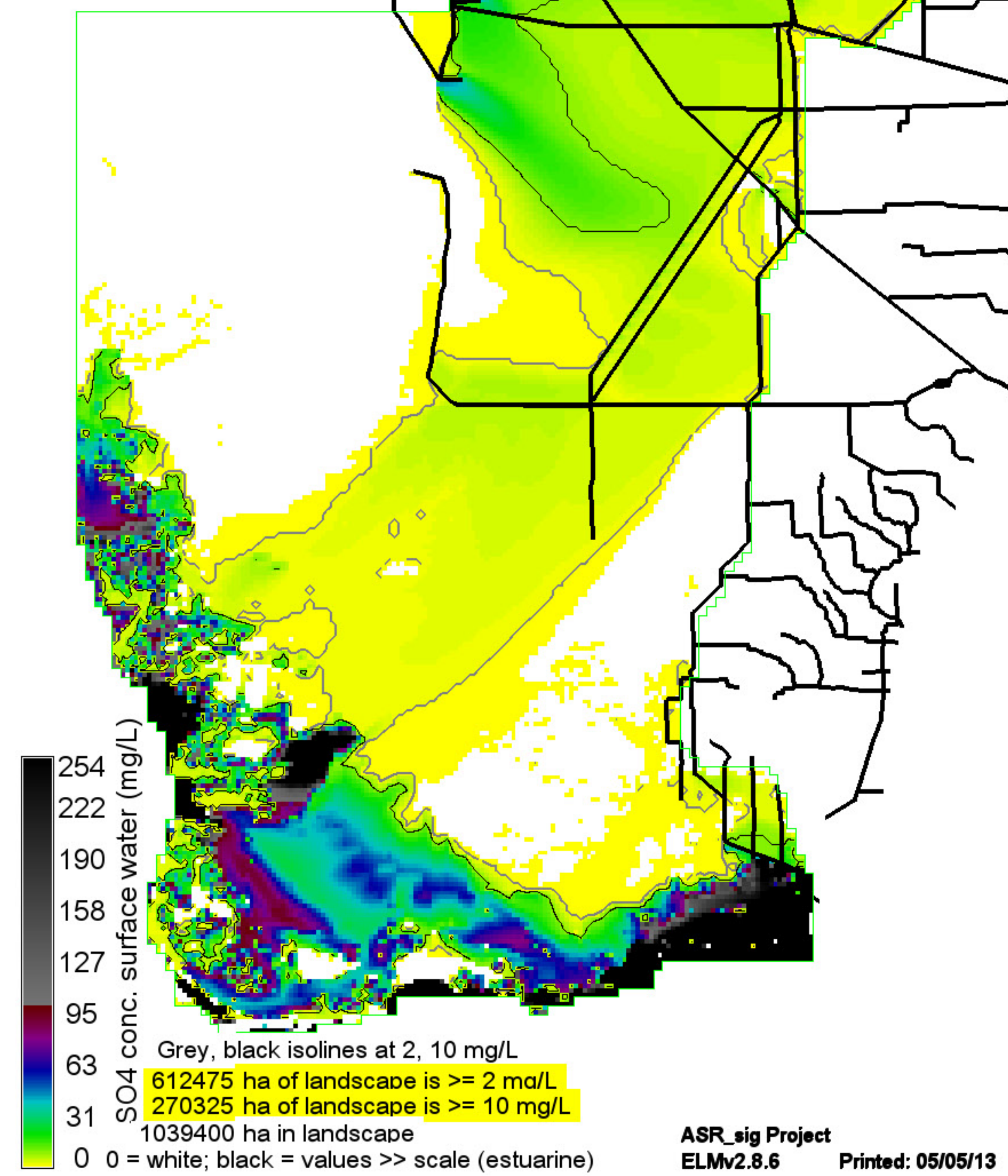


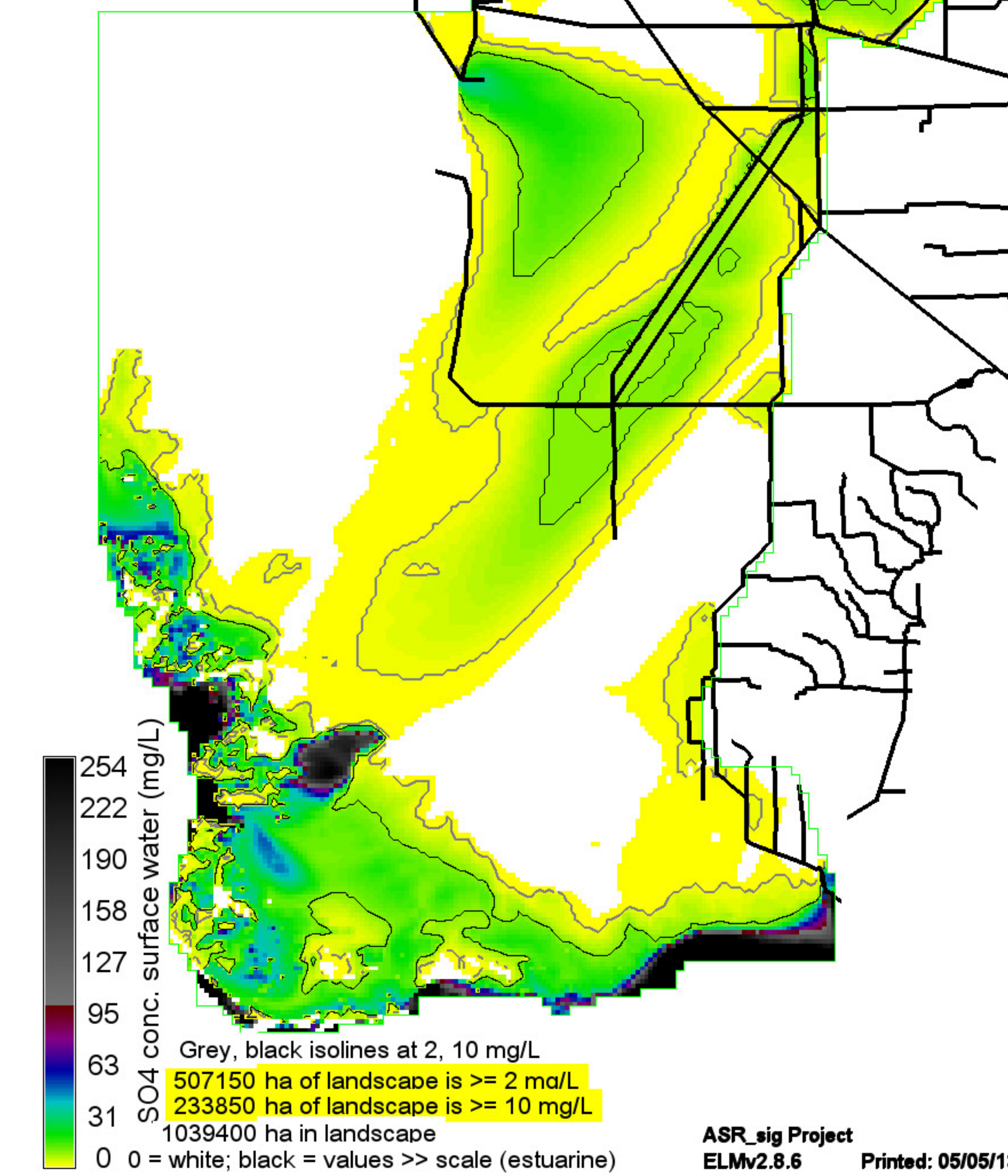
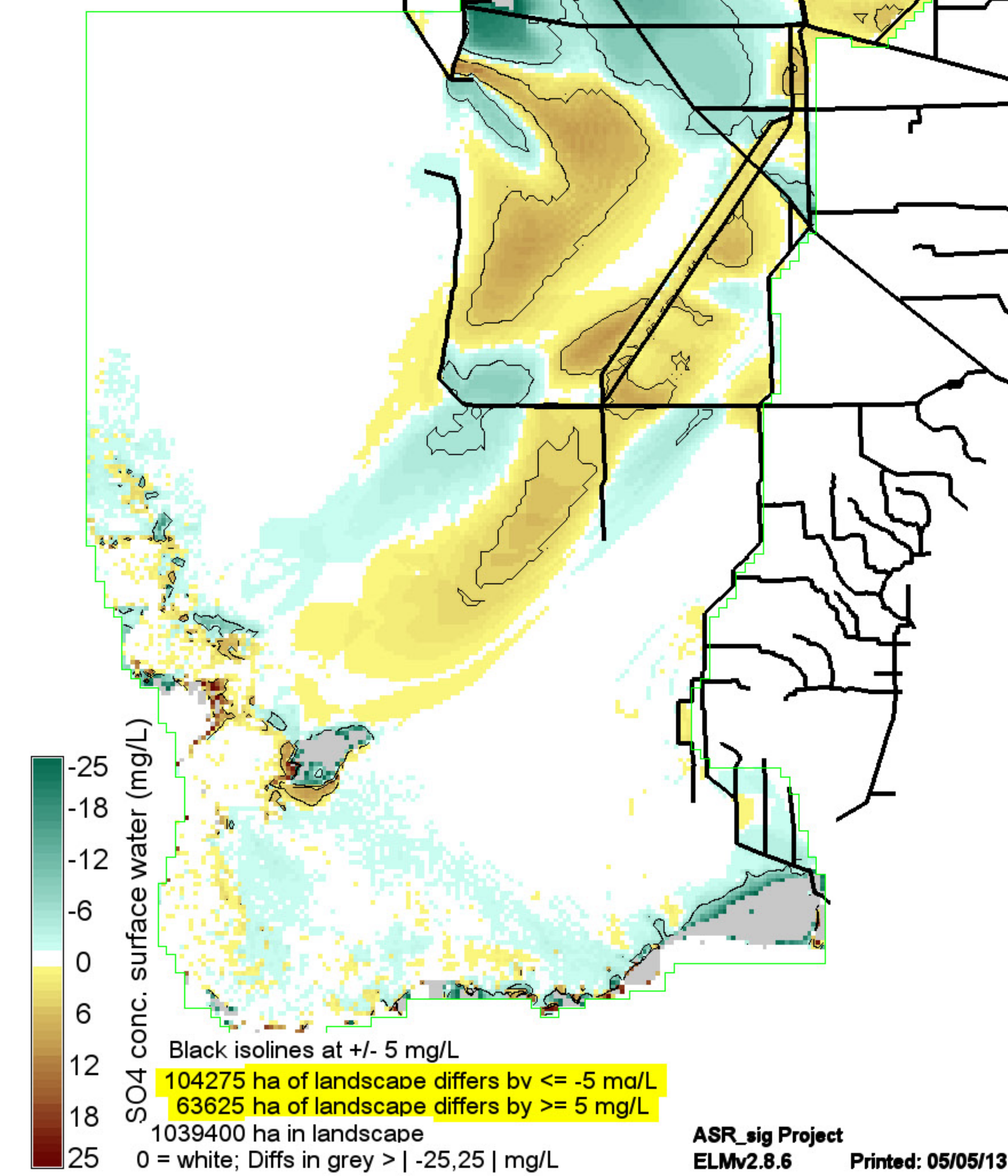
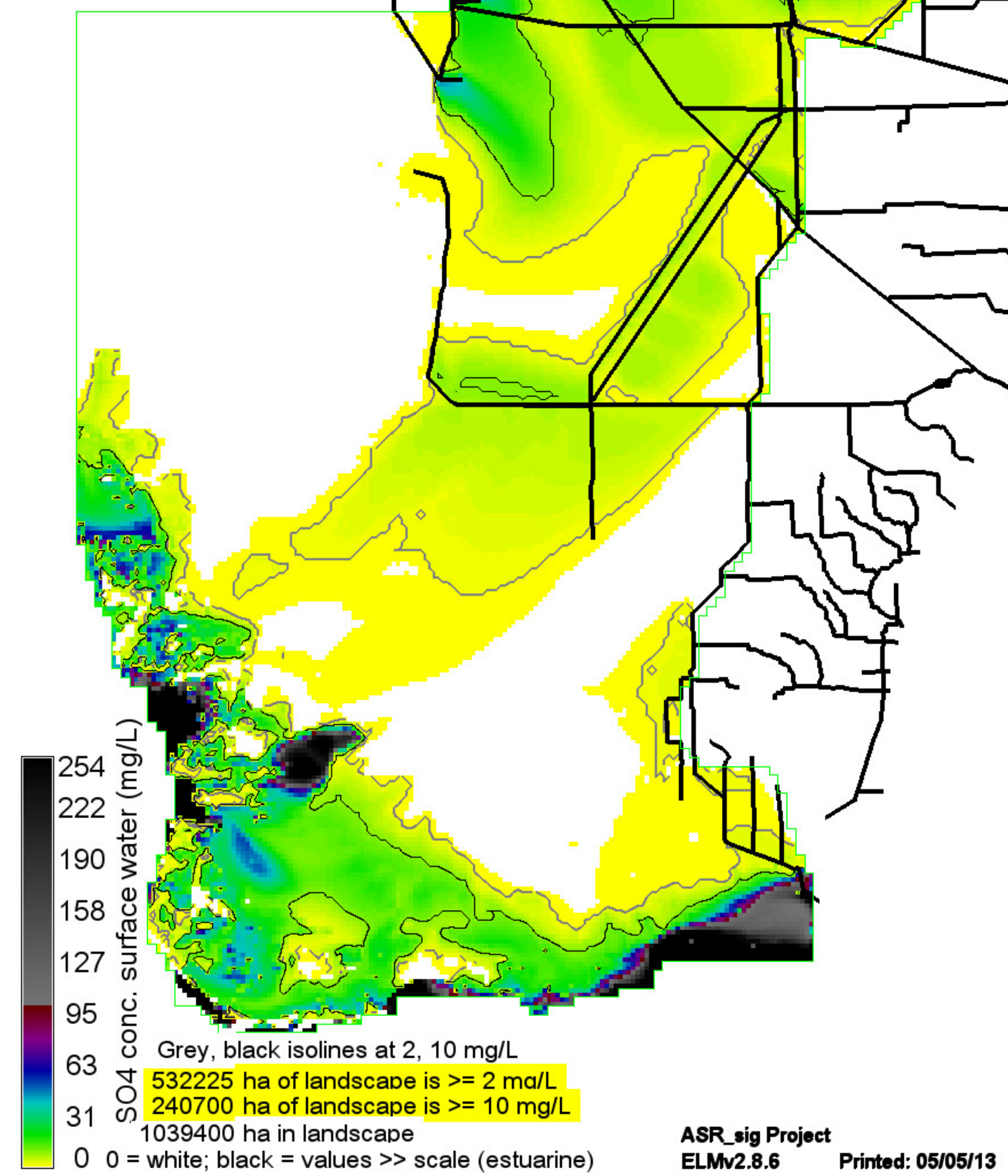
2050B2.MeanRaw.SO4SfAvg19740531

Right Map minus Left Map

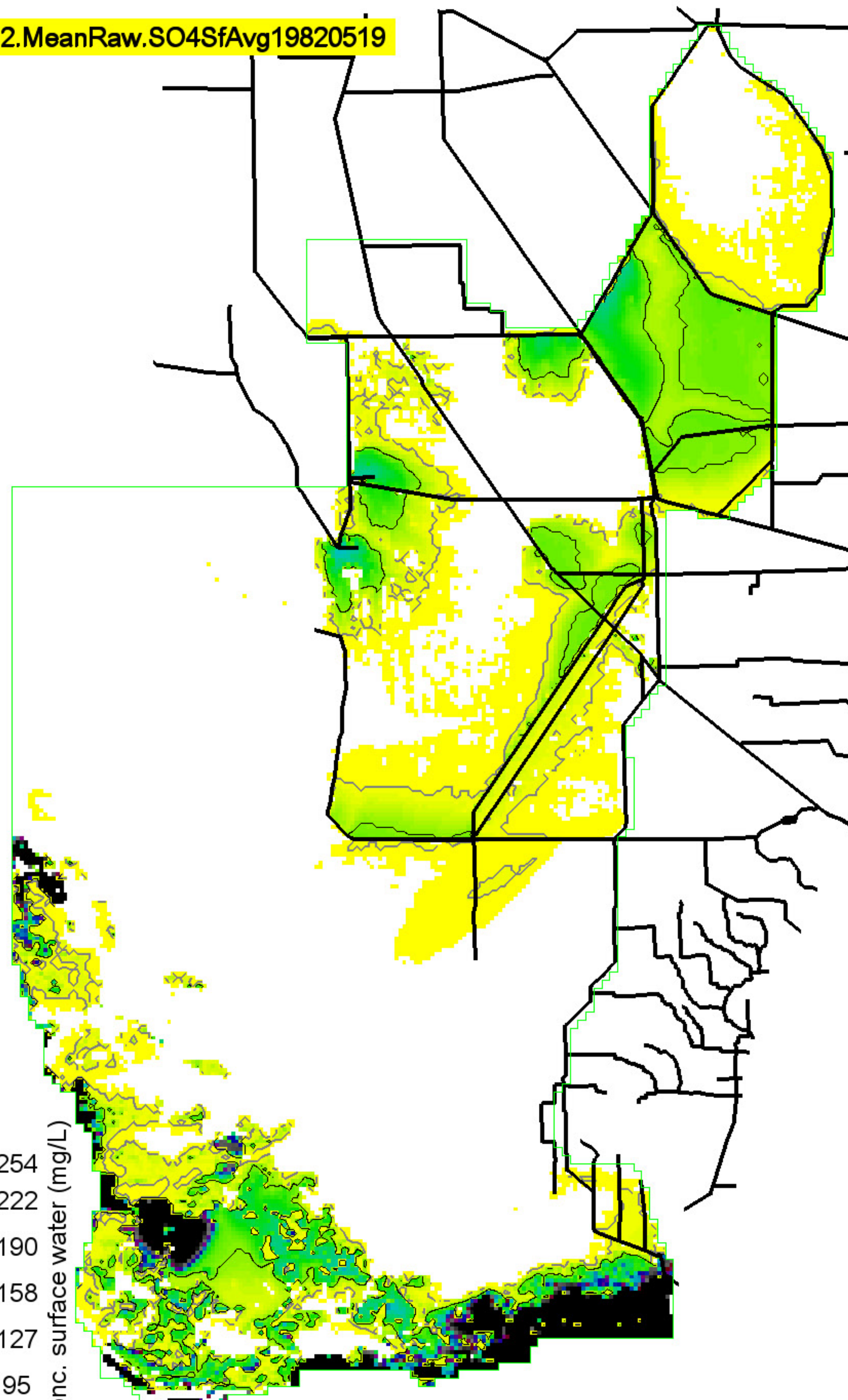
ASR\_BASE.MeanRaw.SO4SfAvg19740531







2050B2.MeanRaw.SO4SfAvg19820519

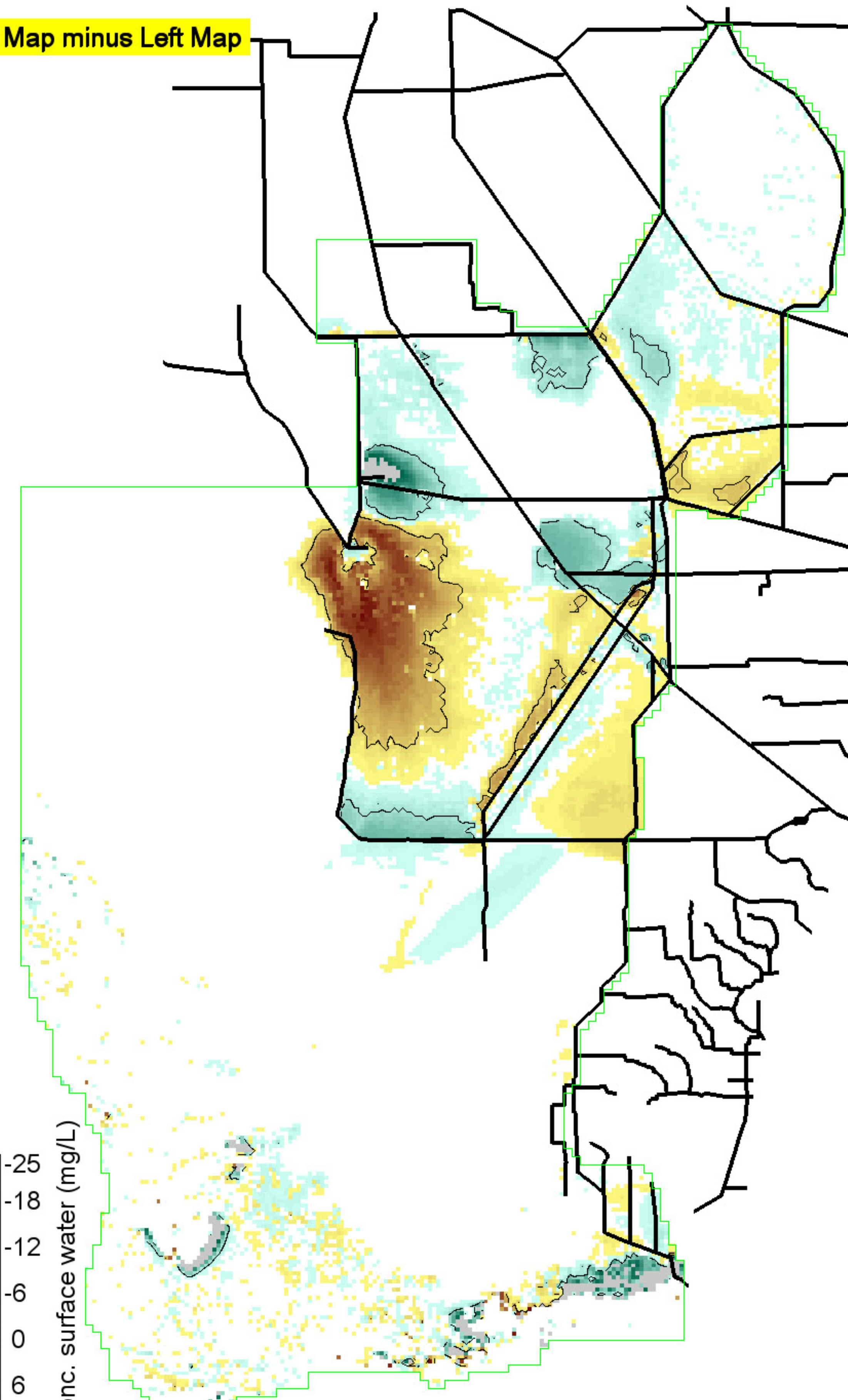


SO4 conc. surface water (mg/L)

254  
222  
190  
158  
127  
95  
63  
31  
0

Grey, black isolines at 2, 10 mg/L  
296475 ha of landscape is  $\geq 2$  mg/L  
137350 ha of landscape is  $\geq 10$  mg/L  
1039400 ha in landscape  
0 = white; black = values  $\gg$  scale (estuarine)

Right Map minus Left Map

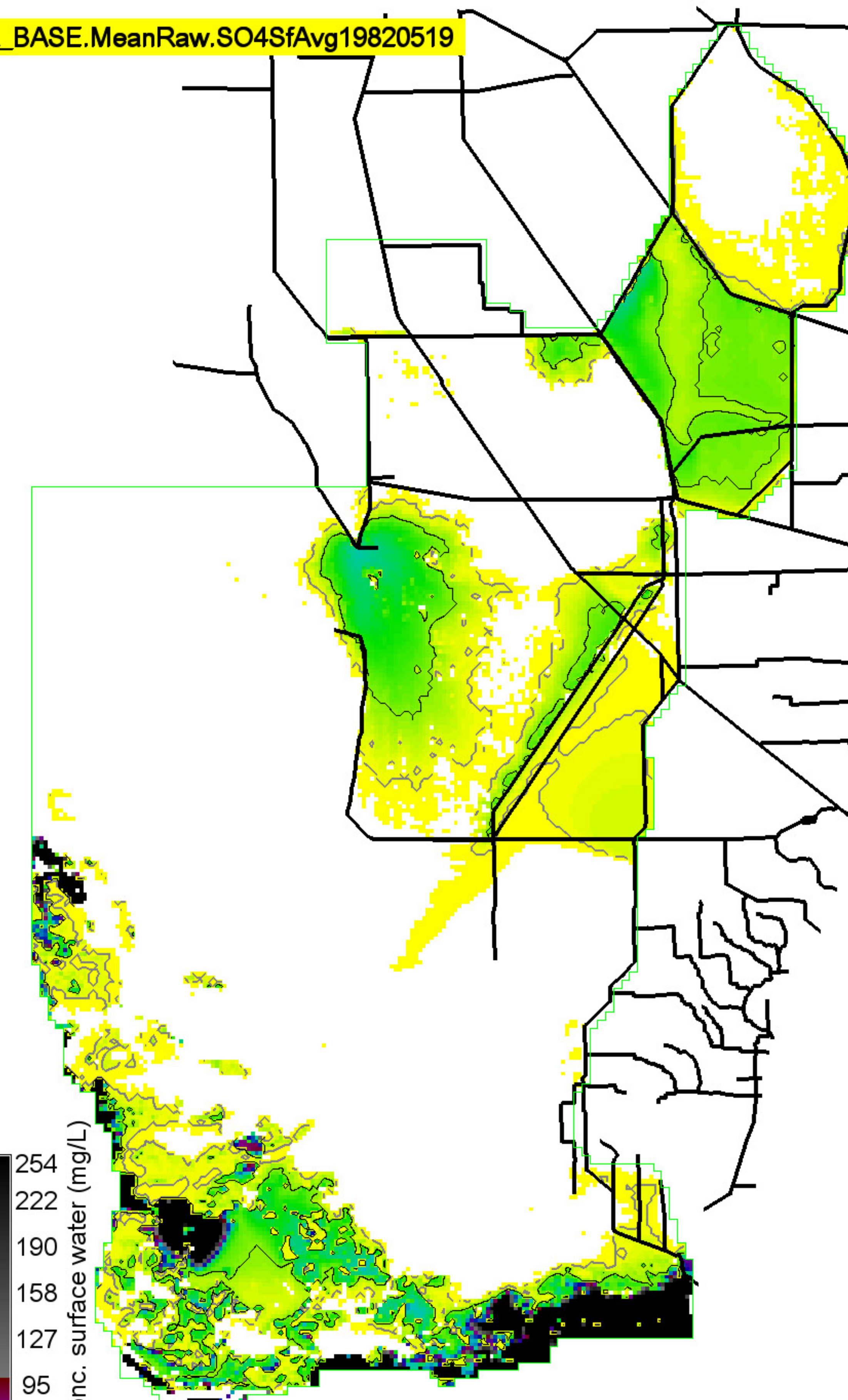


SO4 conc. surface water (mg/L)

-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

Black isolines at +/- 5 mg/L  
40250 ha of landscape differs by  $\leq -5$  mg/L  
42825 ha of landscape differs by  $\geq 5$  mg/L  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  mg/L

ASR\_BASE.MeanRaw.SO4SfAvg19820519



SO4 conc. surface water (mg/L)

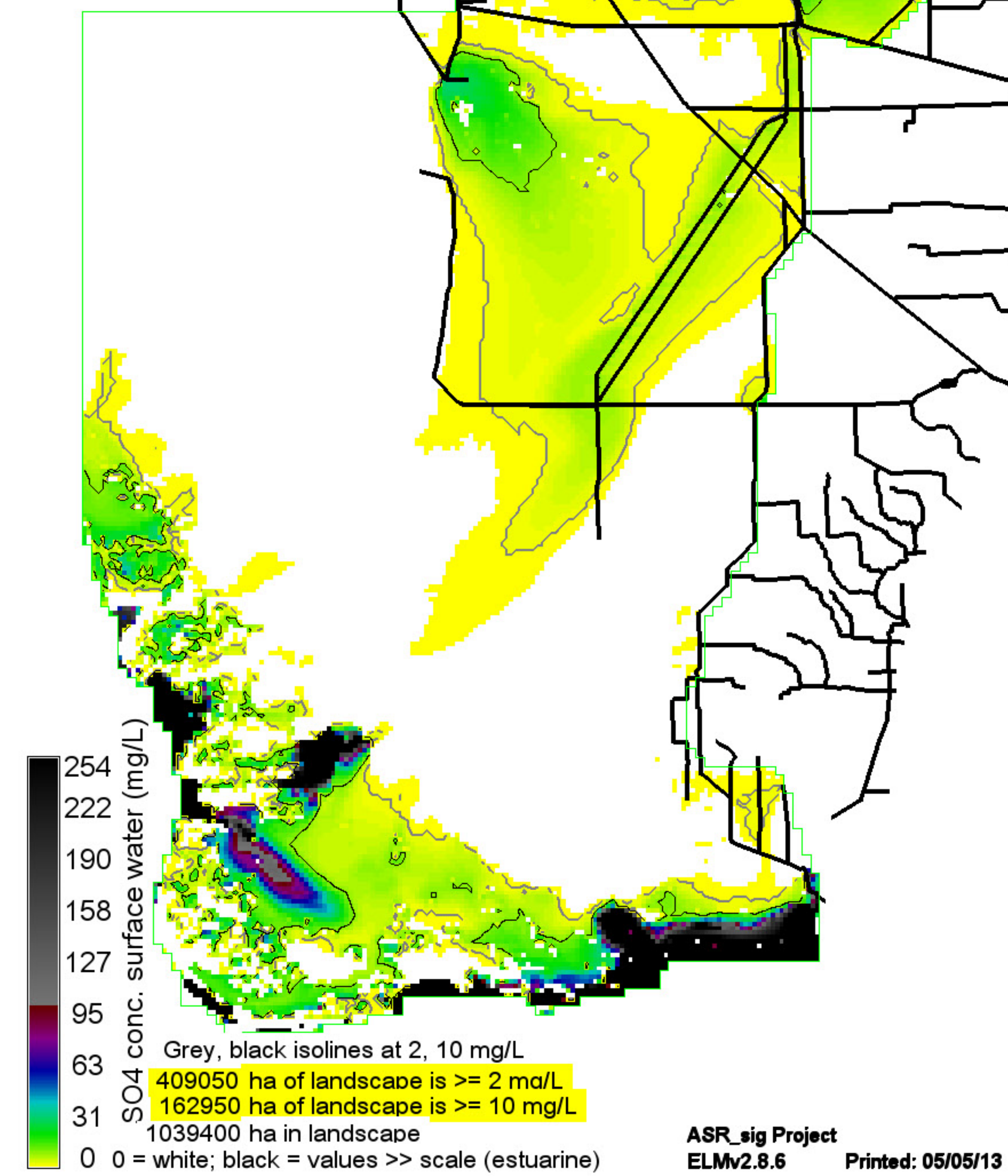
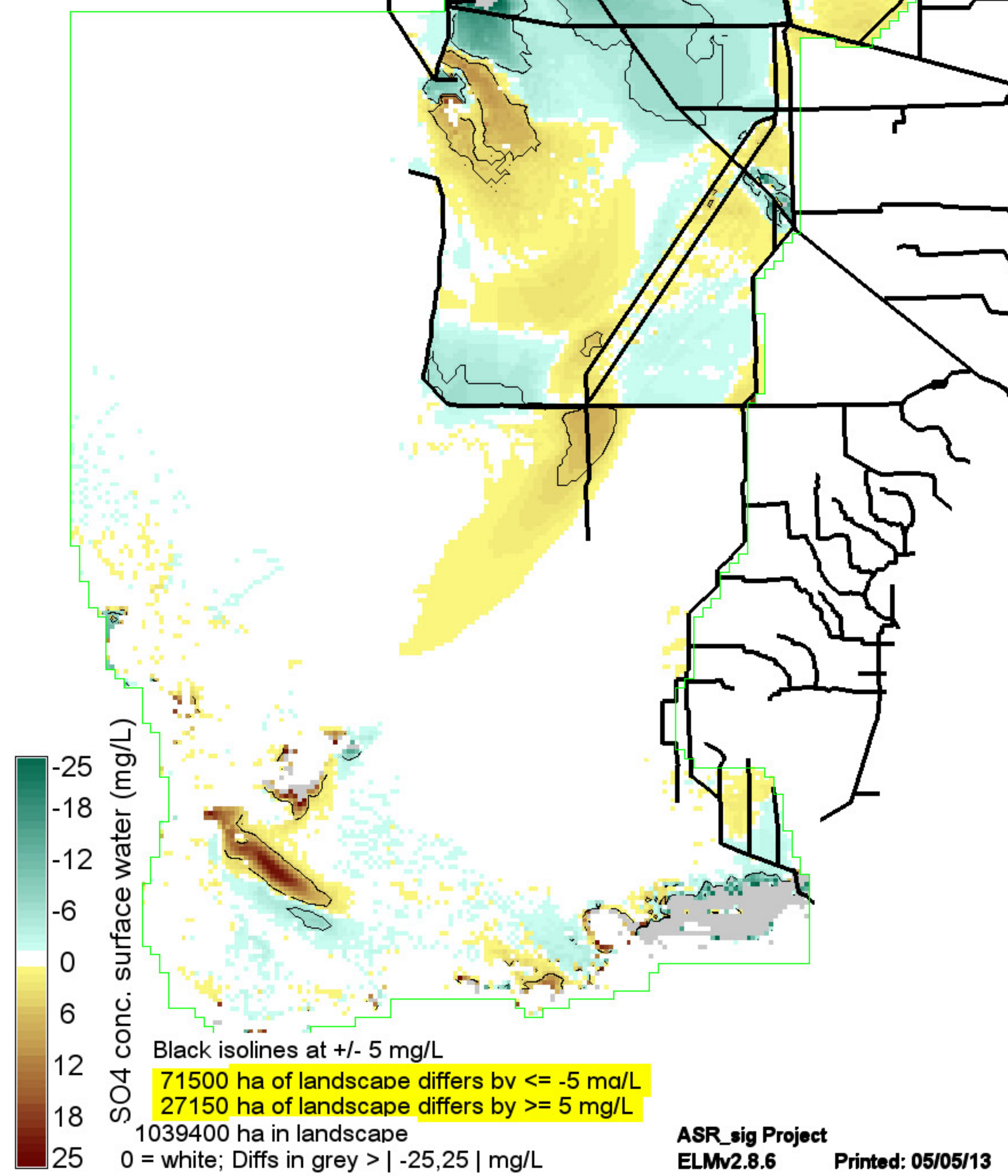
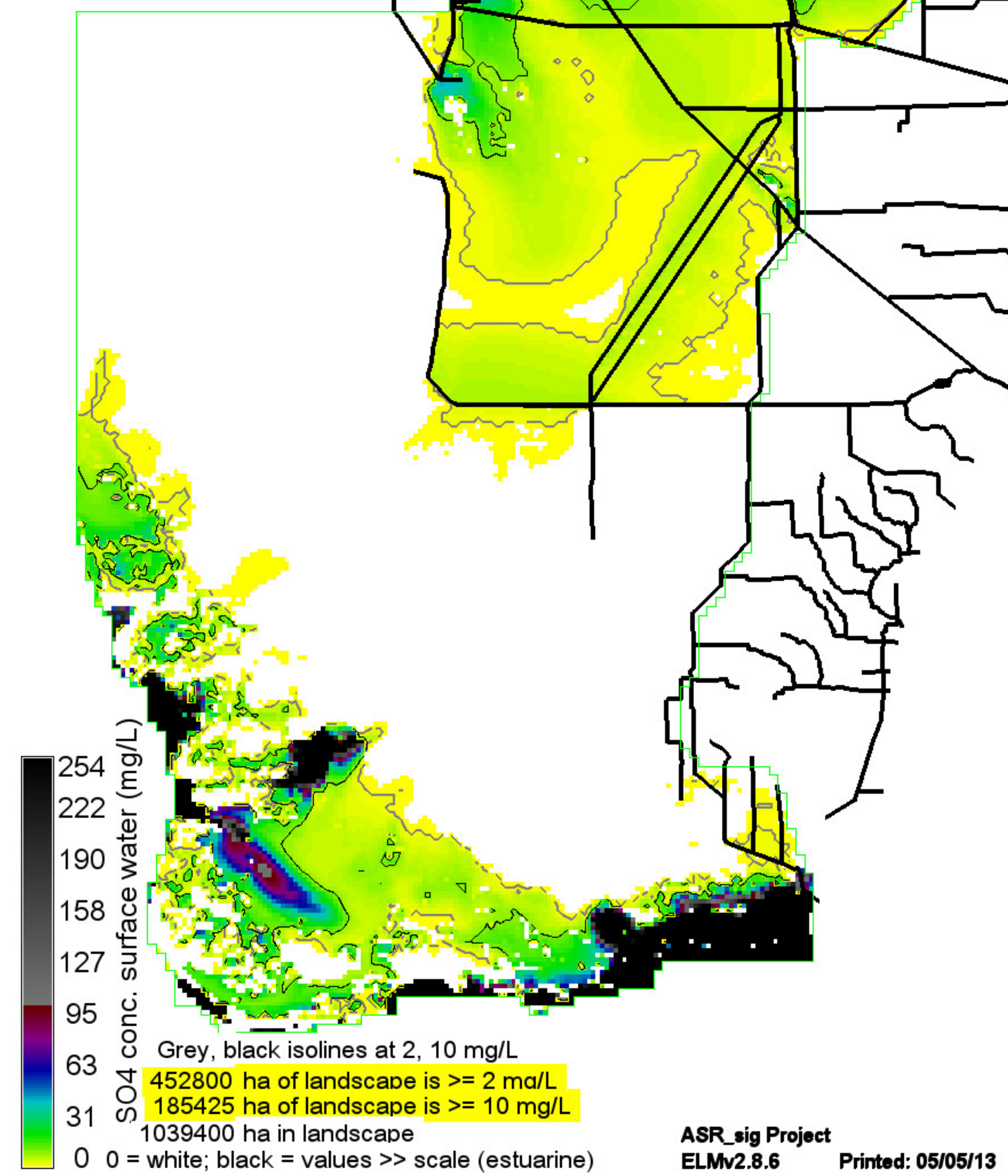
254  
222  
190  
158  
127  
95  
63  
31  
0

Grey, black isolines at 2, 10 mg/L  
310950 ha of landscape is  $\geq 2$  mg/L  
146475 ha of landscape is  $\geq 10$  mg/L  
1039400 ha in landscape  
0 = white; black = values  $\gg$  scale (estuarine)

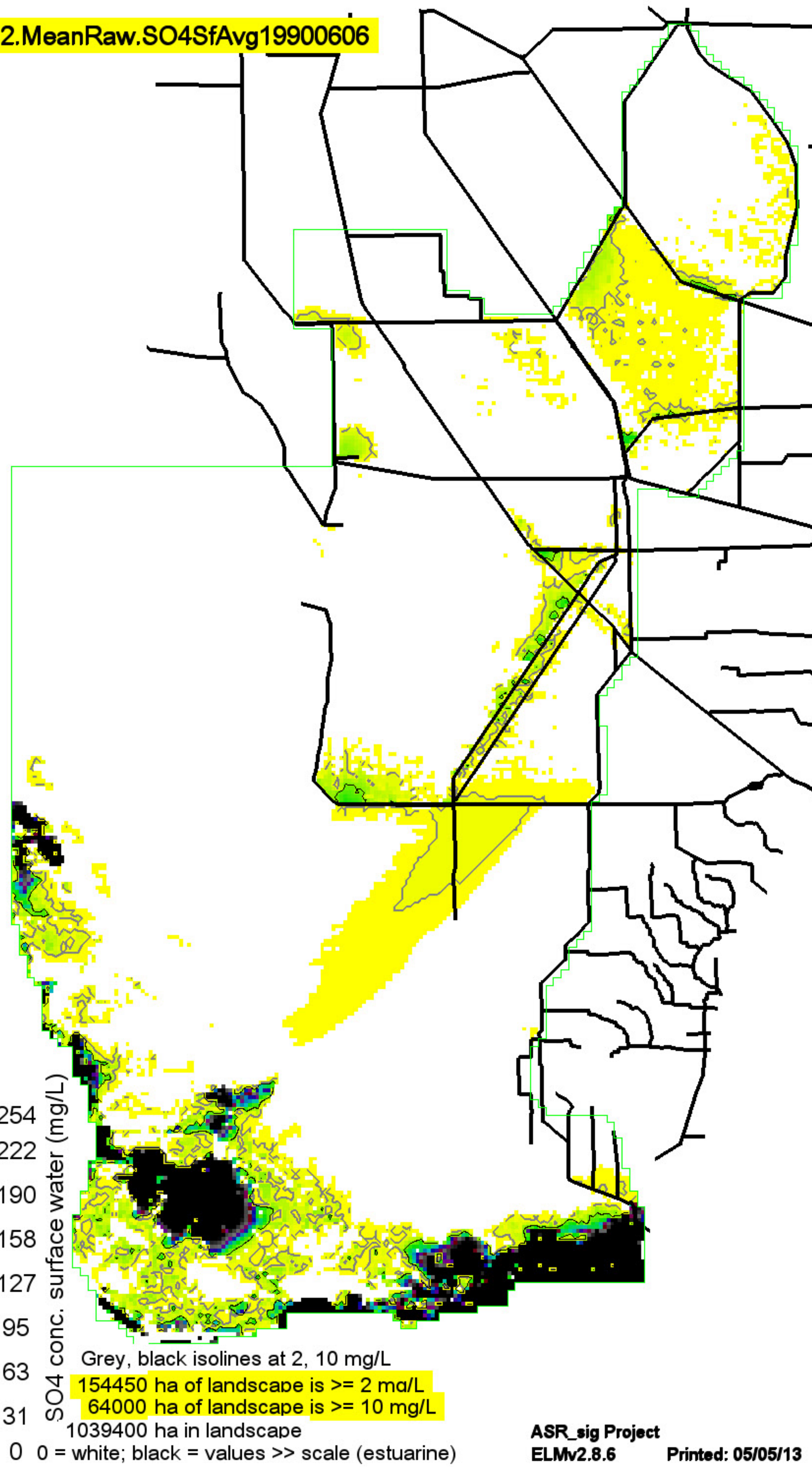
2050B2.MeanRaw.SO4SfAvg19891108

Right Map minus Left Map

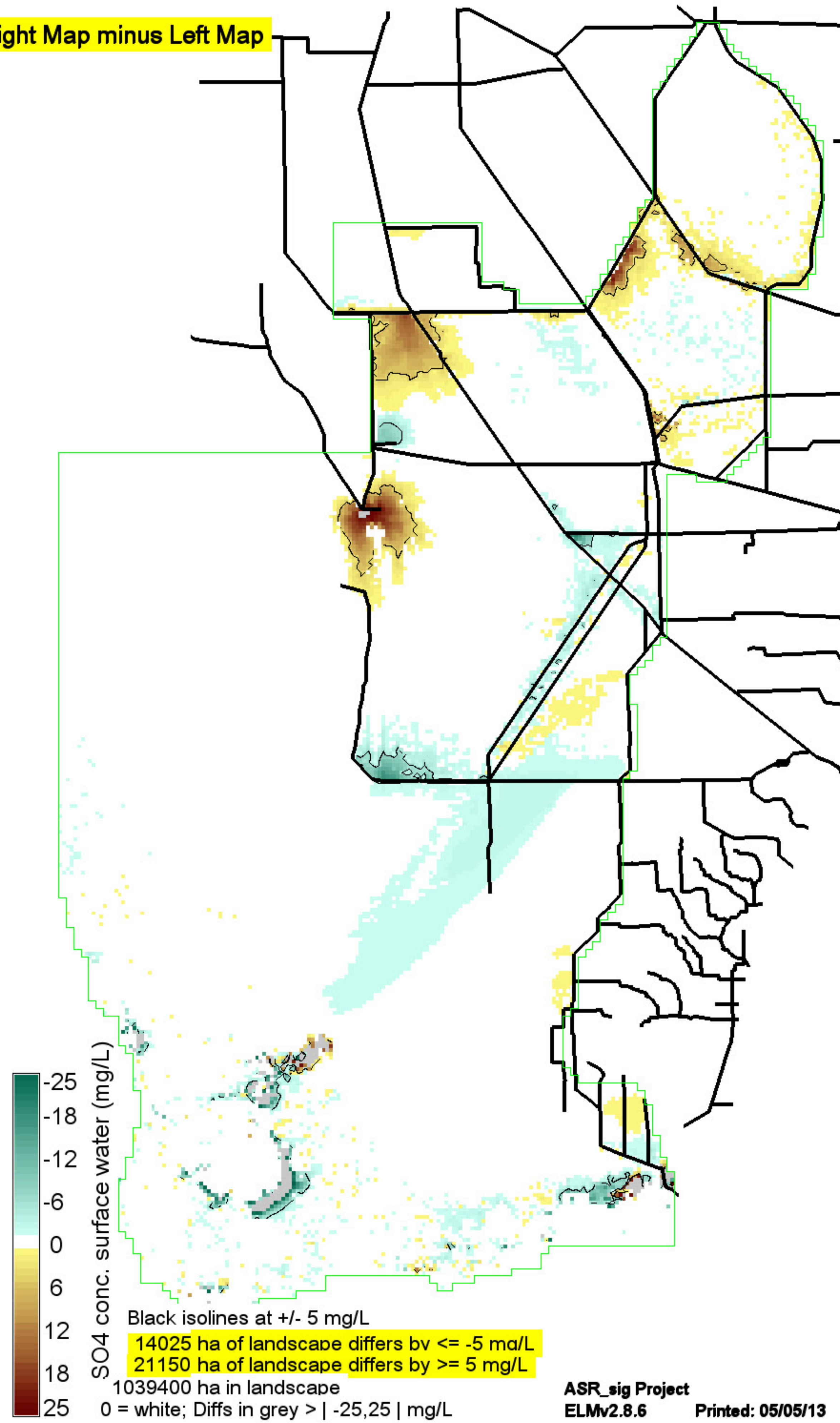
ASR\_BASE.MeanRaw.SO4SfAvg19891108



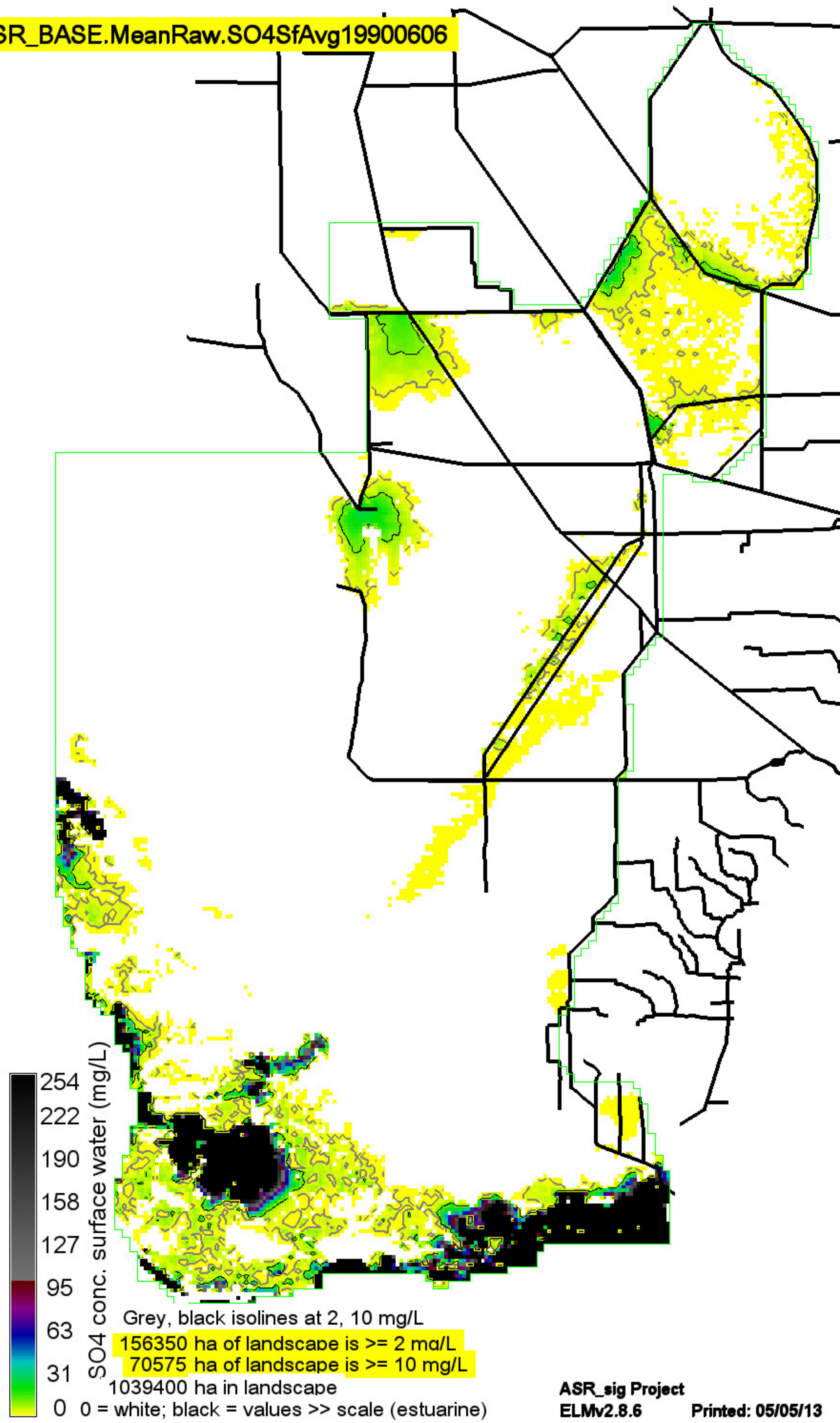
2050B2.MeanRaw.SO4SfAvg19900606



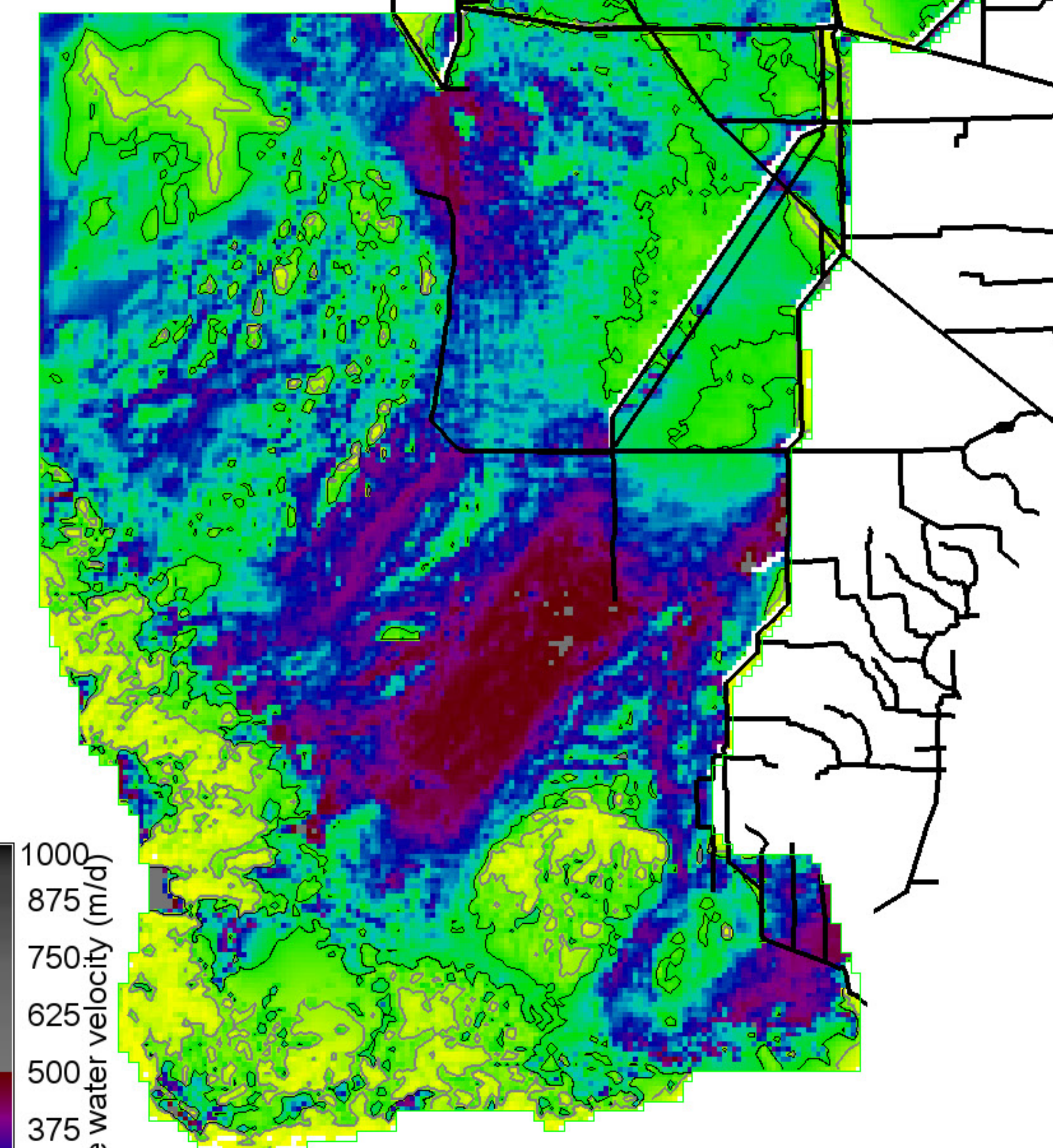
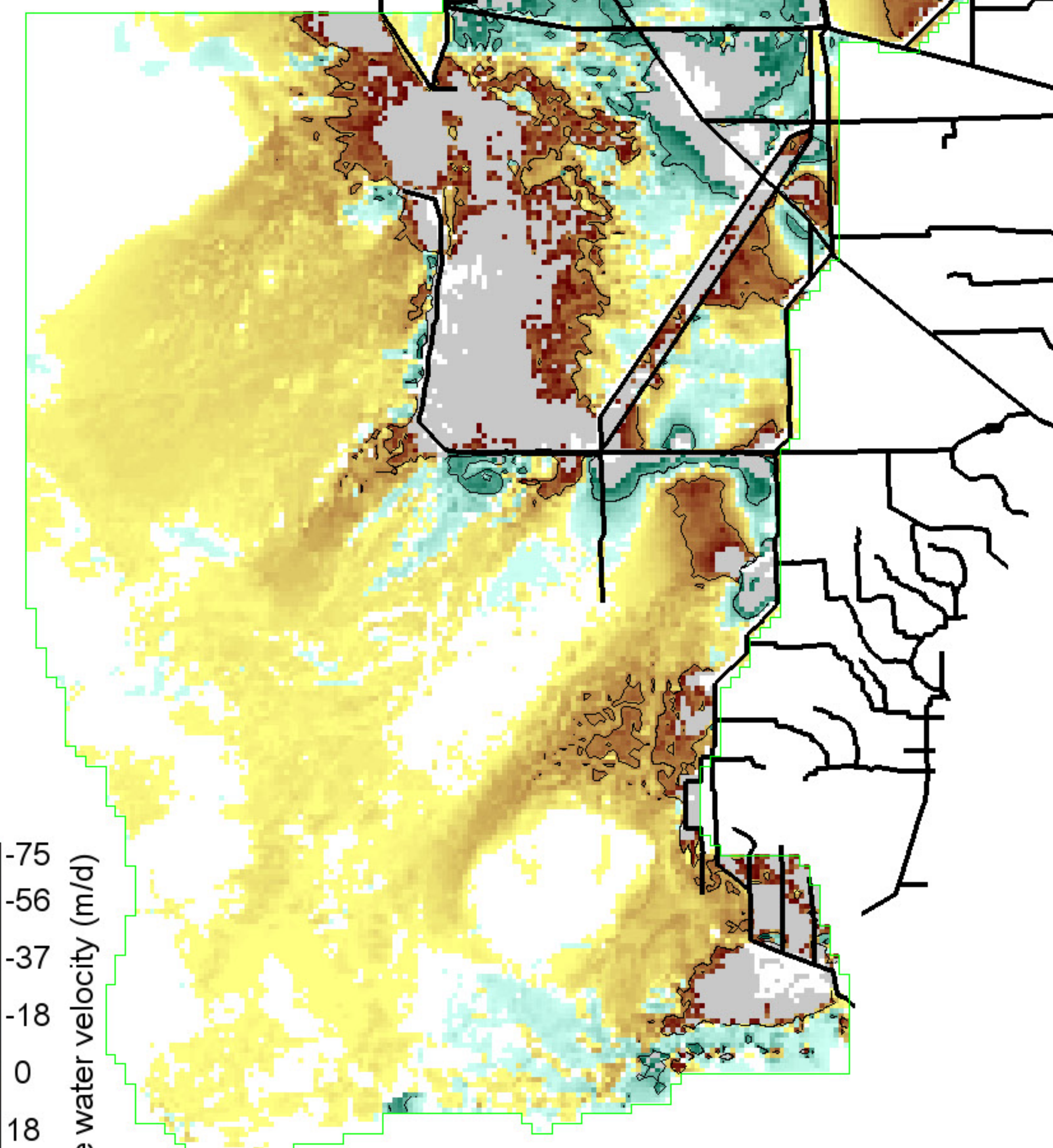
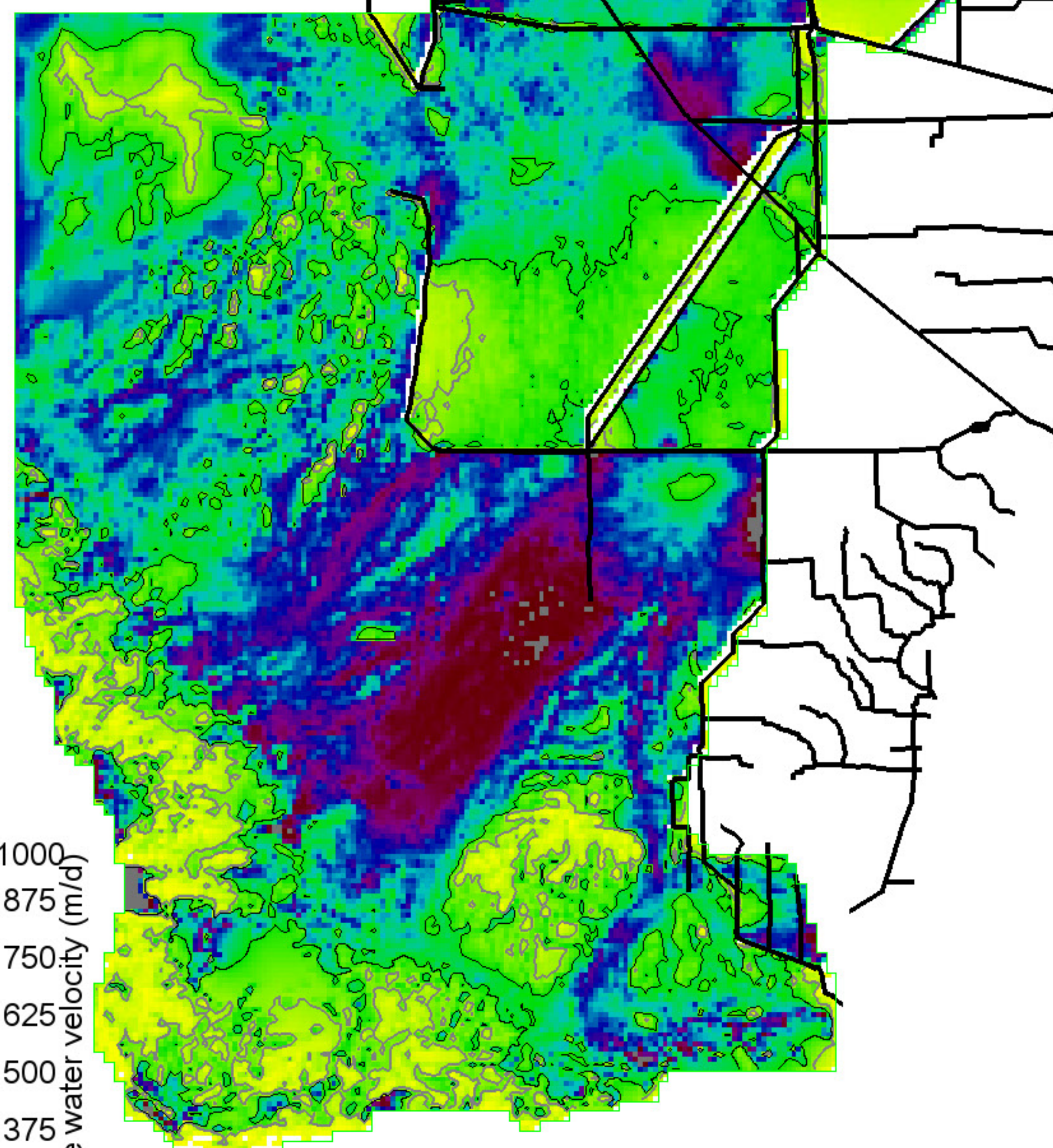
Right Map minus Left Map



ASR\_BASE.MeanRaw.SO4SfAvg19900606







Surface water velocity (m/d)

1000  
875  
750  
625  
500  
375  
250  
125  
0 = white

Grey, black isolines at 40, 100 m/d  
857250 ha of landscape is  $\geq 40$  m/d  
640975 ha of landscape is  $\geq 100$  m/d  
1039400 ha in landscape

ASR Project  
ELMv2.8.6  
Printed: 05/05/13

Surface water velocity (m/d)

-75  
-56  
-37  
-18  
0  
18  
37  
56  
75

Black isolines at +/- 50 m/d  
73525 ha of landscape differs by  $\leq -50$  m/d  
136350 ha of landscape differs by  $\geq 50$  m/d  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -75, 75 |$  m/d

ASR Project  
ELMv2.8.6  
Printed: 05/05/13

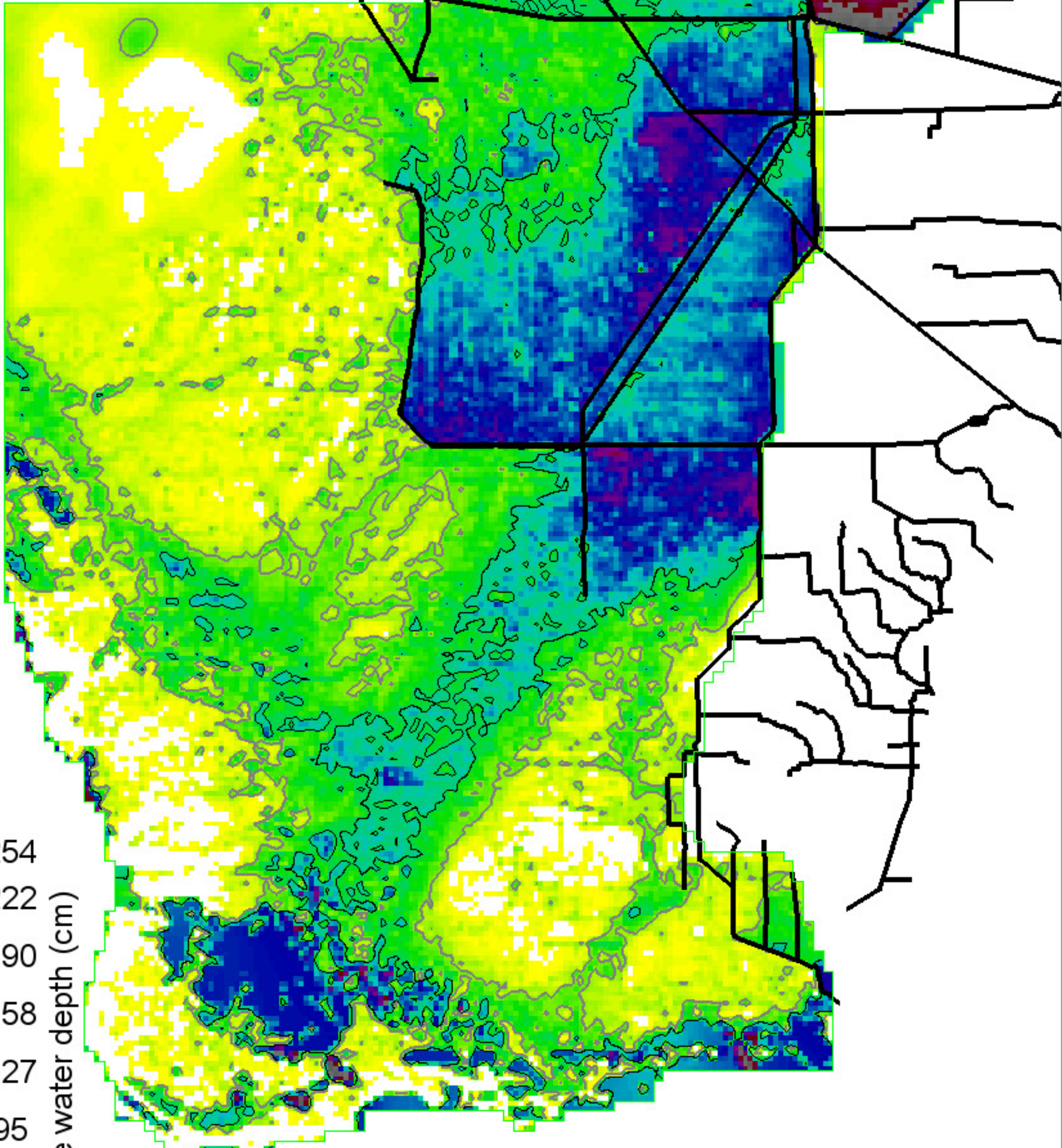
Surface water velocity (m/d)

1000  
875  
750  
625  
500  
375  
250  
125  
0 = white

Grey, black isolines at 40, 100 m/d  
880500 ha of landscape is  $\geq 40$  m/d  
701425 ha of landscape is  $\geq 100$  m/d  
1039400 ha in landscape

ASR Project  
ELMv2.8.6  
Printed: 05/05/13

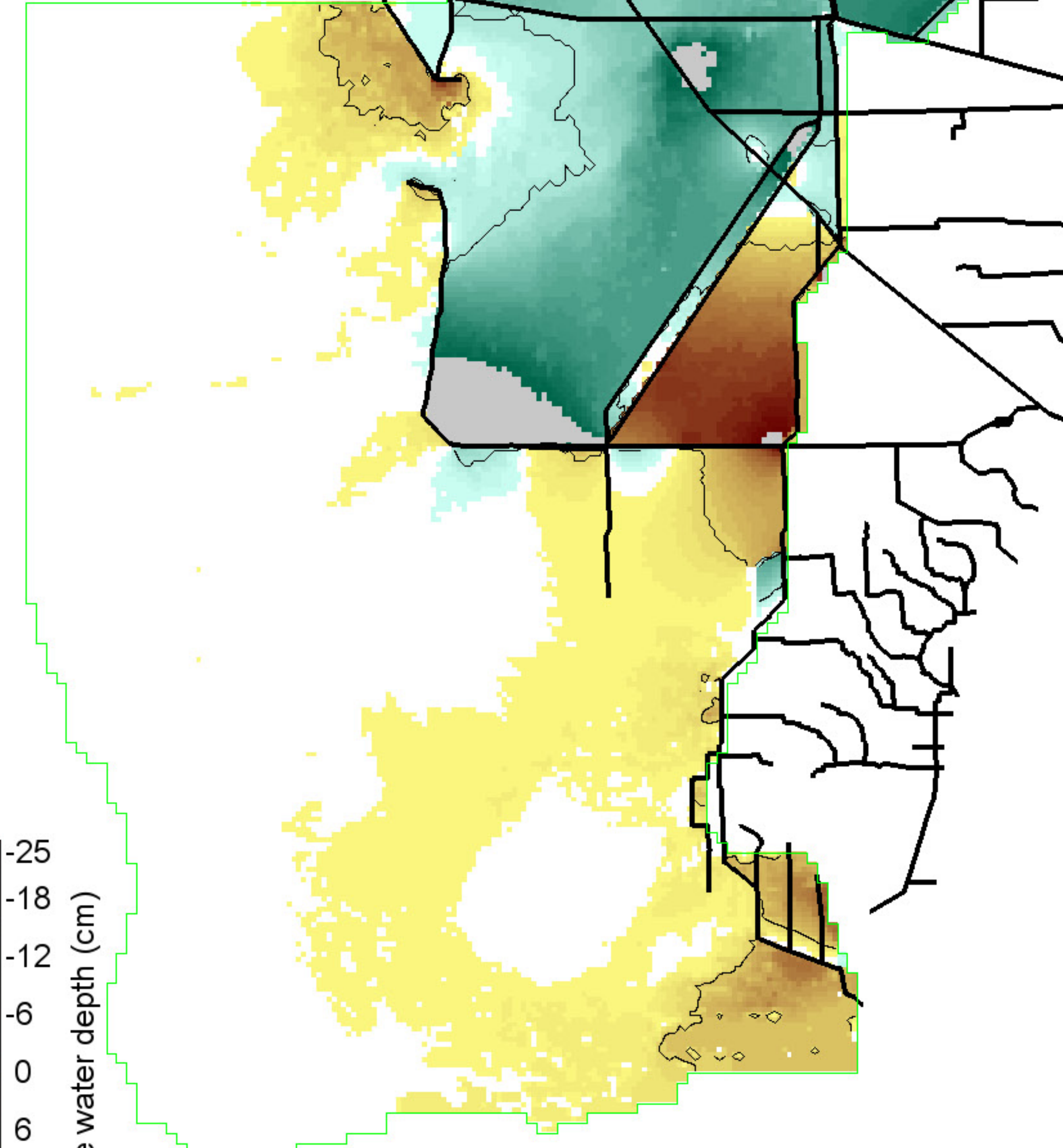
2050B2.MeanPOS.SfWatAvg20000315



254  
222  
190  
158  
127  
95  
63  
31  
0 = white

Grey, black isolines at 10, 30 cm  
666775 ha of landscape is  $\geq 10$  cm  
318525 ha of landscape is  $\geq 30$  cm  
1039400 ha in landscape

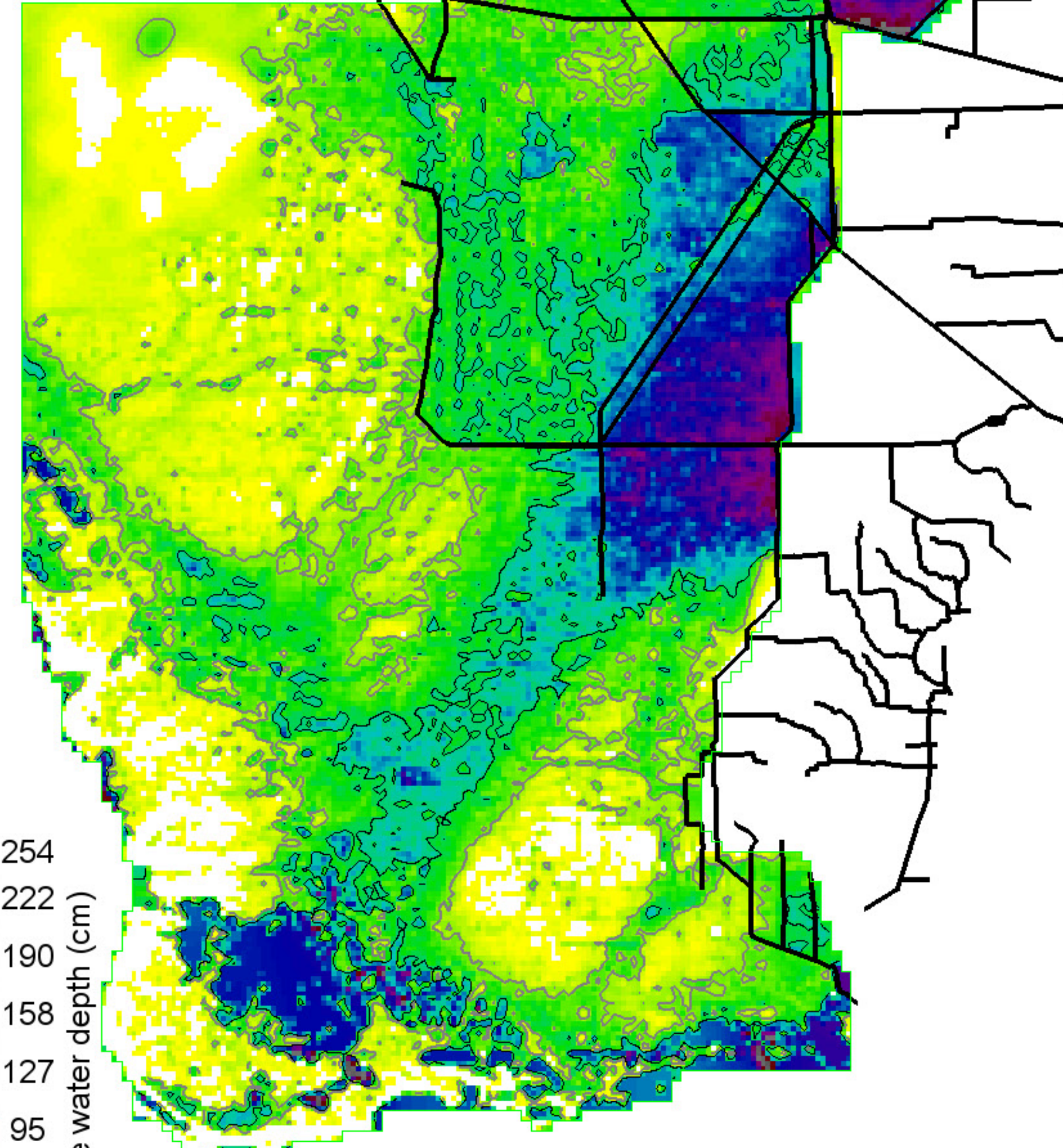
Right Map minus Left Map



-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

Black isolines at +/- 5 cm  
232175 ha of landscape differs by  $\leq -5$  cm  
74875 ha of landscape differs by  $\geq 5$  cm  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  cm

ASR\_BASE.MeanPOS.SfWatAvg20000315



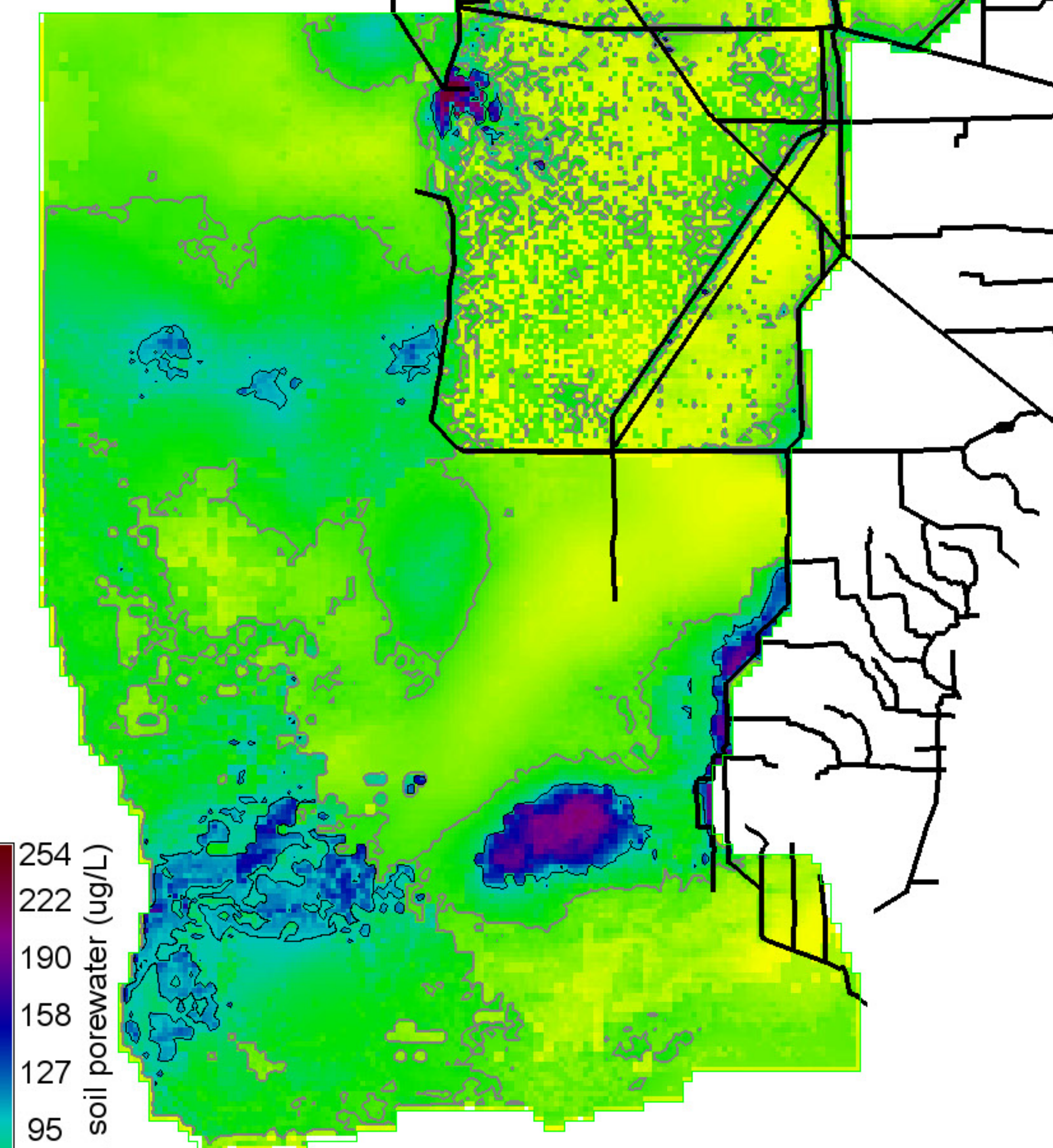
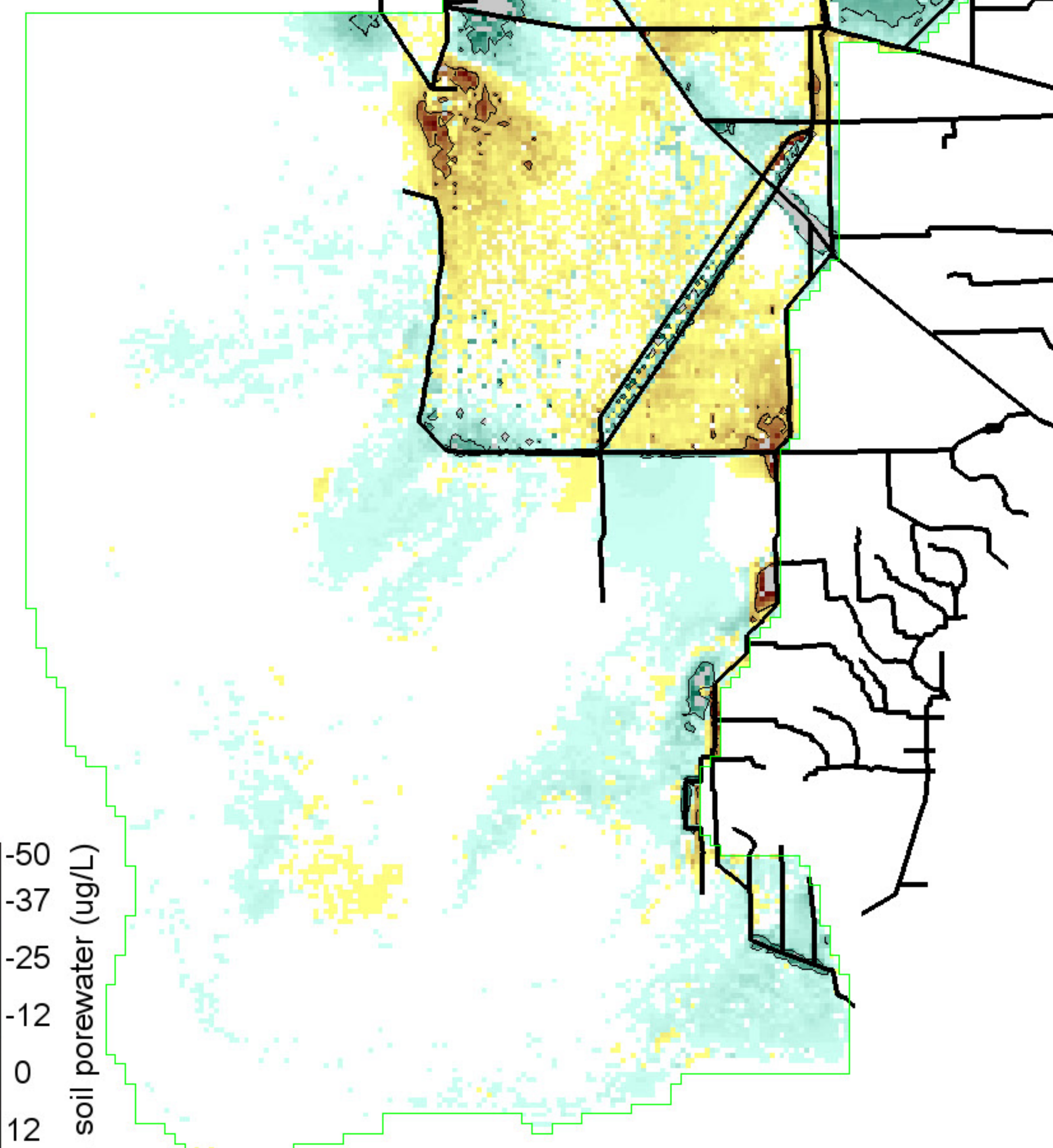
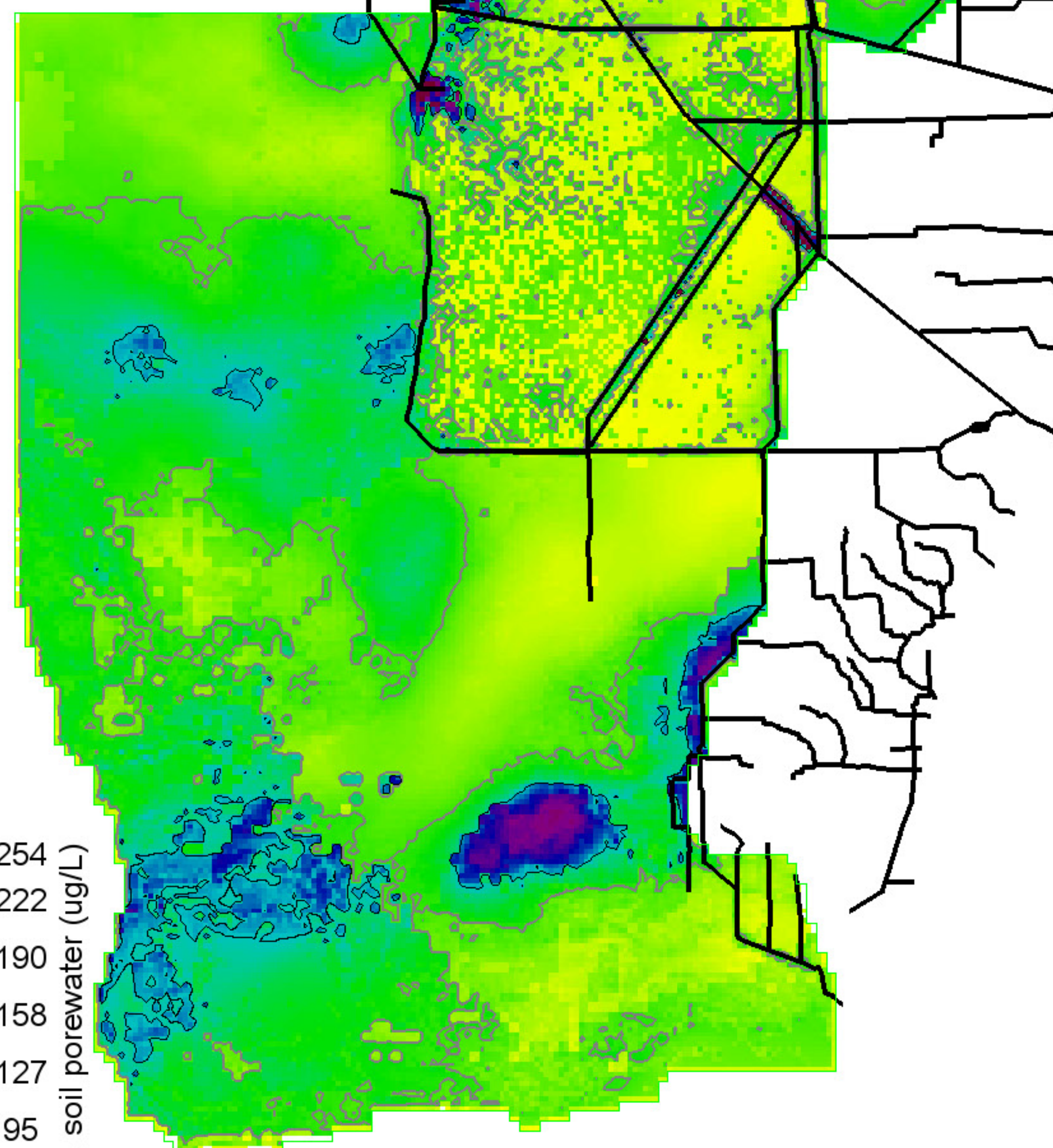
254  
222  
190  
158  
127  
95  
63  
31  
0 = white

Grey, black isolines at 10, 30 cm  
673775 ha of landscape is  $\geq 10$  cm  
250525 ha of landscape is  $\geq 30$  cm  
1039400 ha in landscape

2050B2.MeanPOS.TPSedWatAvg20000315

Right Map minus Left Map

ASR\_BASE.MeanPOS.TPSedWatAvg20000315



254  
222  
190  
158  
127  
95  
63  
31  
0 = white

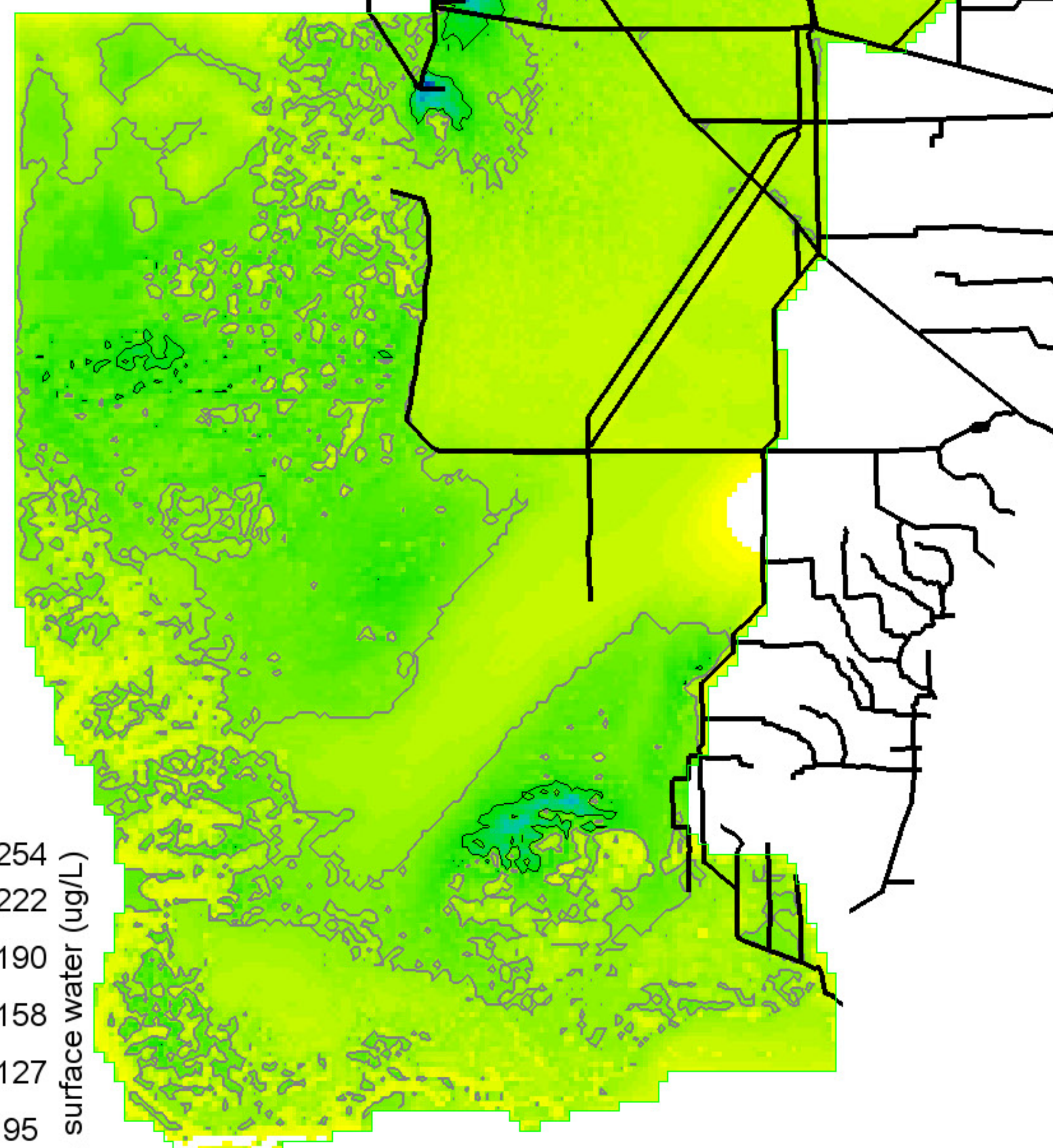
Grey, black isolines at 40, 100 ug/L  
 445550 ha of landscape is  $\geq 40$  ug/L  
 62950 ha of landscape is  $\geq 100$  ug/L  
 1039400 ha in landscape

-50  
-37  
-25  
-12  
0  
12  
25  
37  
50

Black isolines at +/- 20 ug/L  
 18100 ha of landscape differs by  $\leq -20$  ug/L  
 12800 ha of landscape differs by  $\geq 20$  ug/L  
 1039400 ha in landscape  
 0 = white; Diffs in grey  $> | -50, 50 |$  ug/L

254  
222  
190  
158  
127  
95  
63  
31  
0 = white

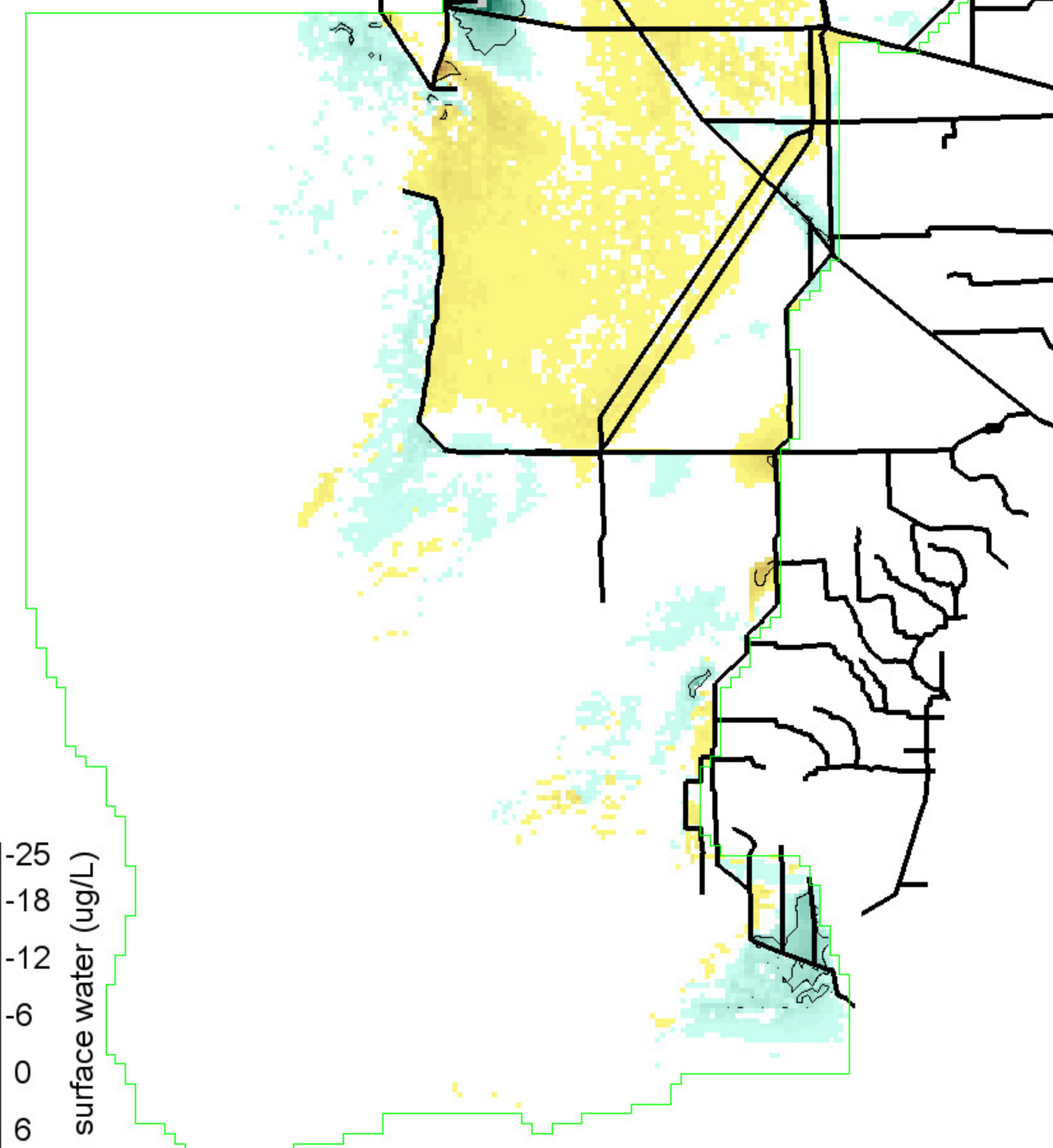
Grey, black isolines at 40, 100 ug/L  
 443250 ha of landscape is  $\geq 40$  ug/L  
 61300 ha of landscape is  $\geq 100$  ug/L  
 1039400 ha in landscape



254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

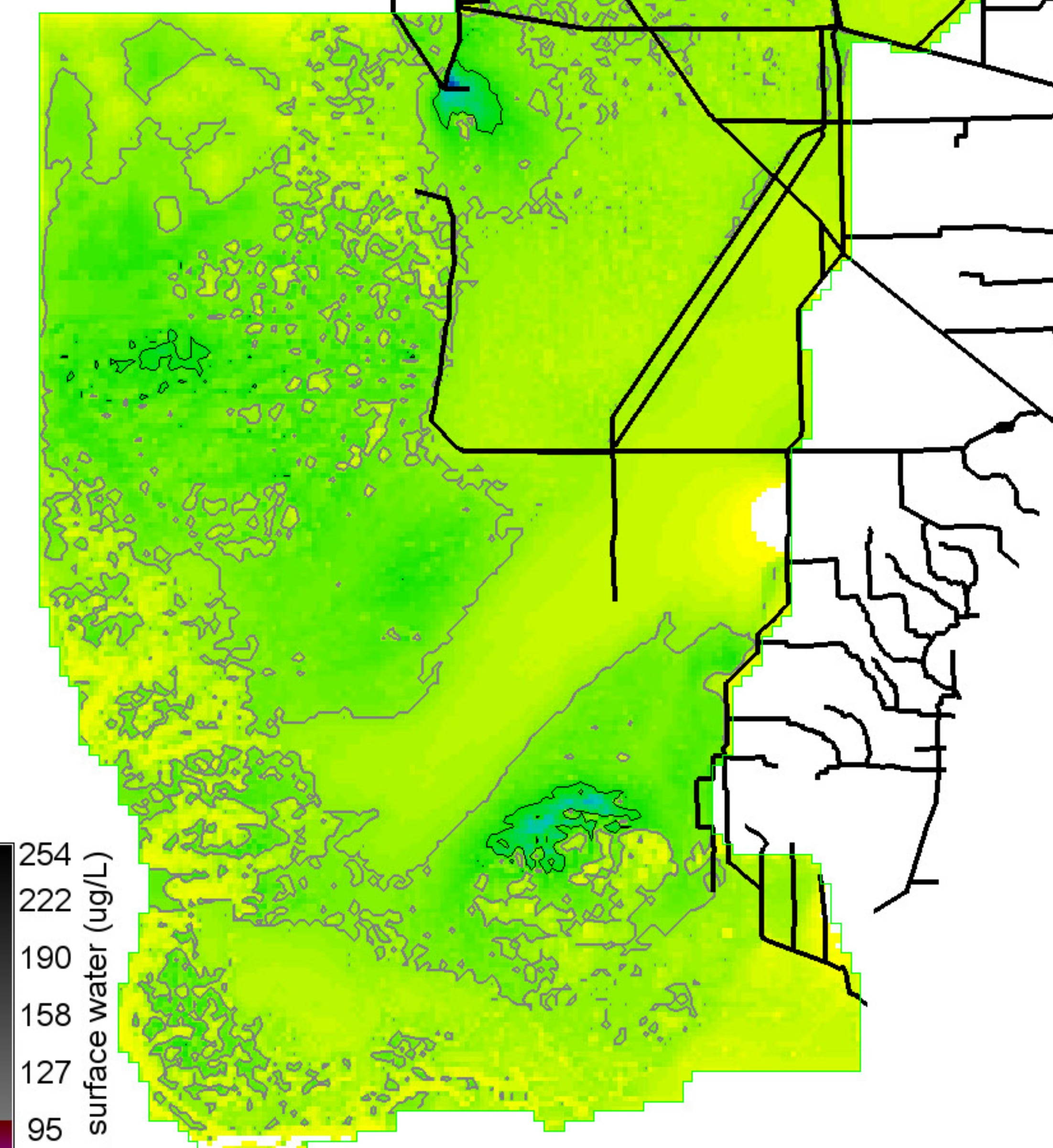
Grey, black isolines at 10, 20 ug/L  
 405625 ha of landscape is  $\geq 10$  ug/L  
 18350 ha of landscape is  $\geq 20$  ug/L  
 1039400 ha in landscape



-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

P conc. surface water (ug/L)

Black isolines at +/- 5 ug/L  
 9700 ha of landscape differs by  $\leq -5$  ug/L  
 7950 ha of landscape differs by  $\geq 5$  ug/L  
 1039400 ha in landscape  
 0 = white; Diffs in grey  $> | -25, 25 |$  ug/L

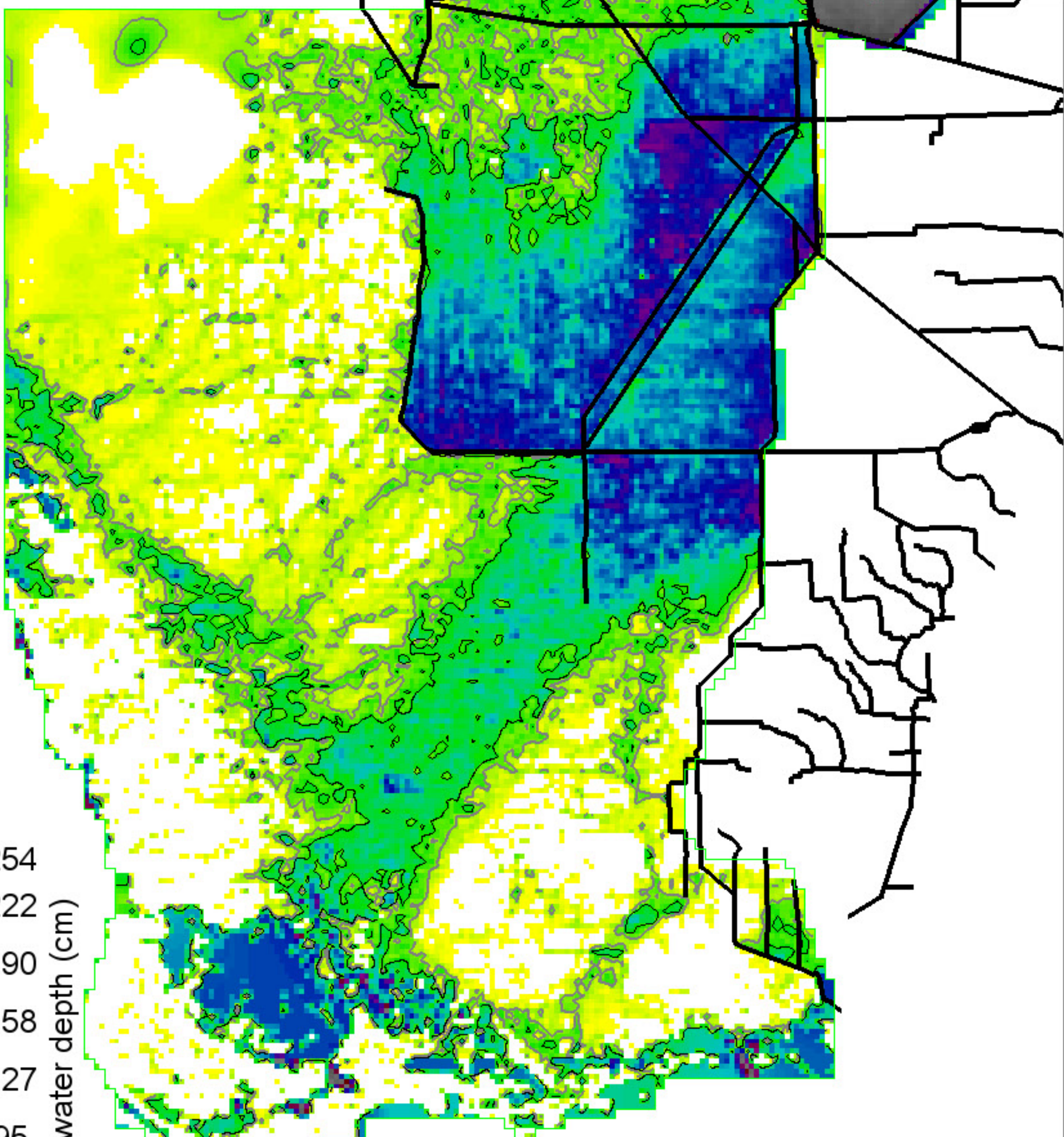


254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
 422825 ha of landscape is  $\geq 10$  ug/L  
 19675 ha of landscape is  $\geq 20$  ug/L  
 1039400 ha in landscape

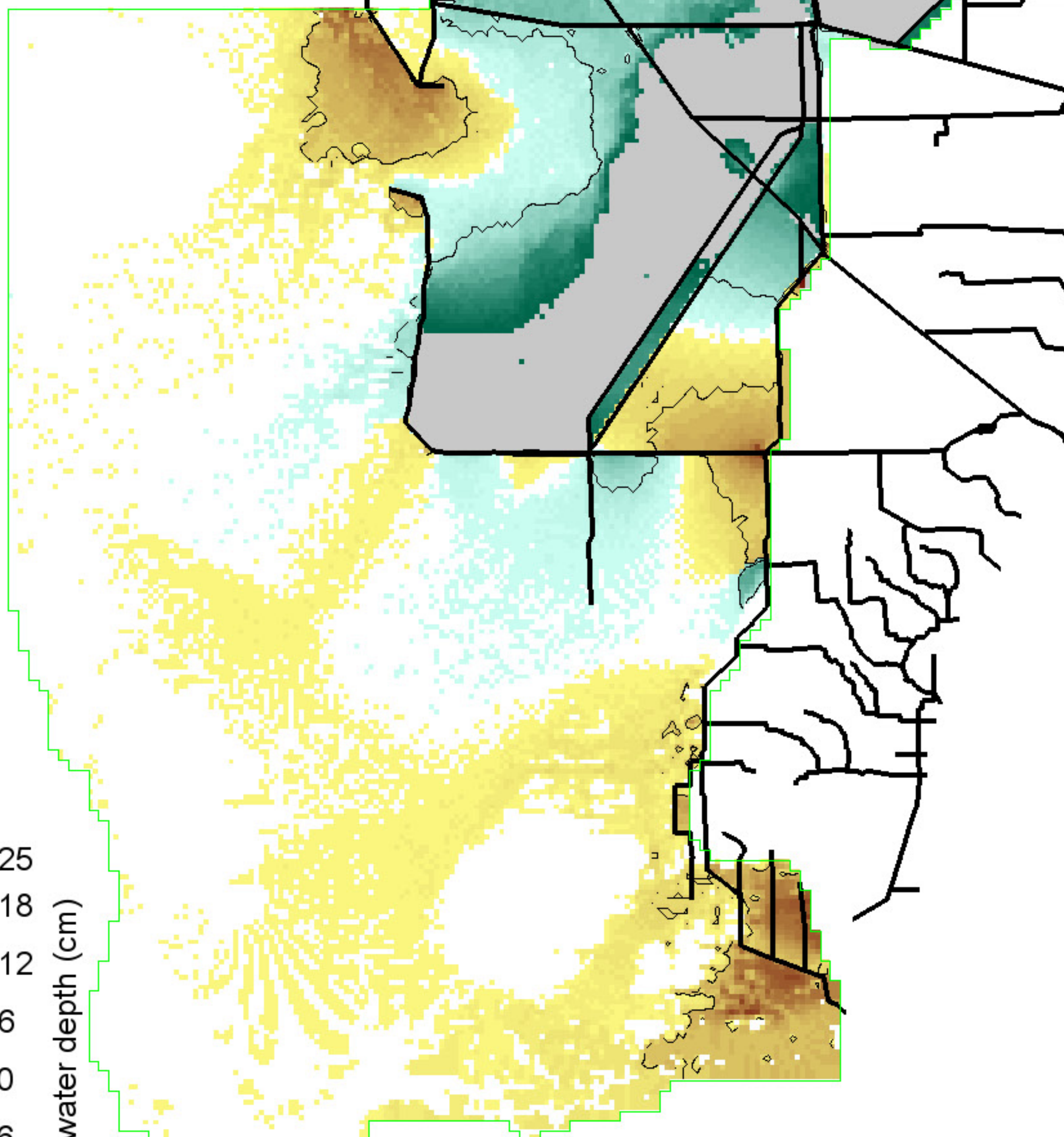
2050B2.MeanRaw.SfWatAvg19780410



254  
222  
190  
158  
127  
95  
63  
31  
0

Grey, black isolines at 10, 20 cm  
552725 ha of landscape is  $\geq 10$  cm  
367275 ha of landscape is  $\geq 20$  cm  
1039400 ha in landscape

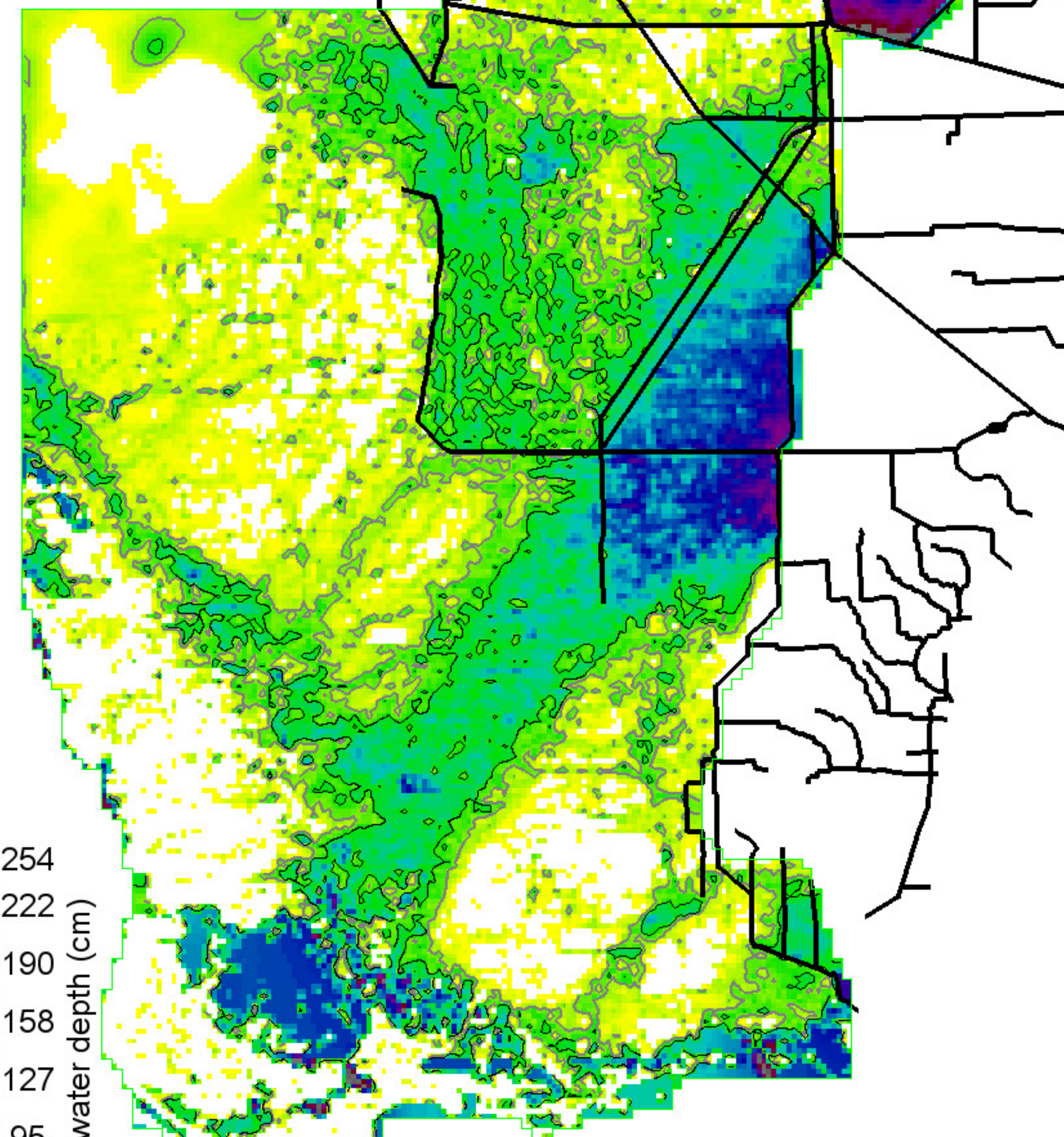
Right Map minus Left Map



-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

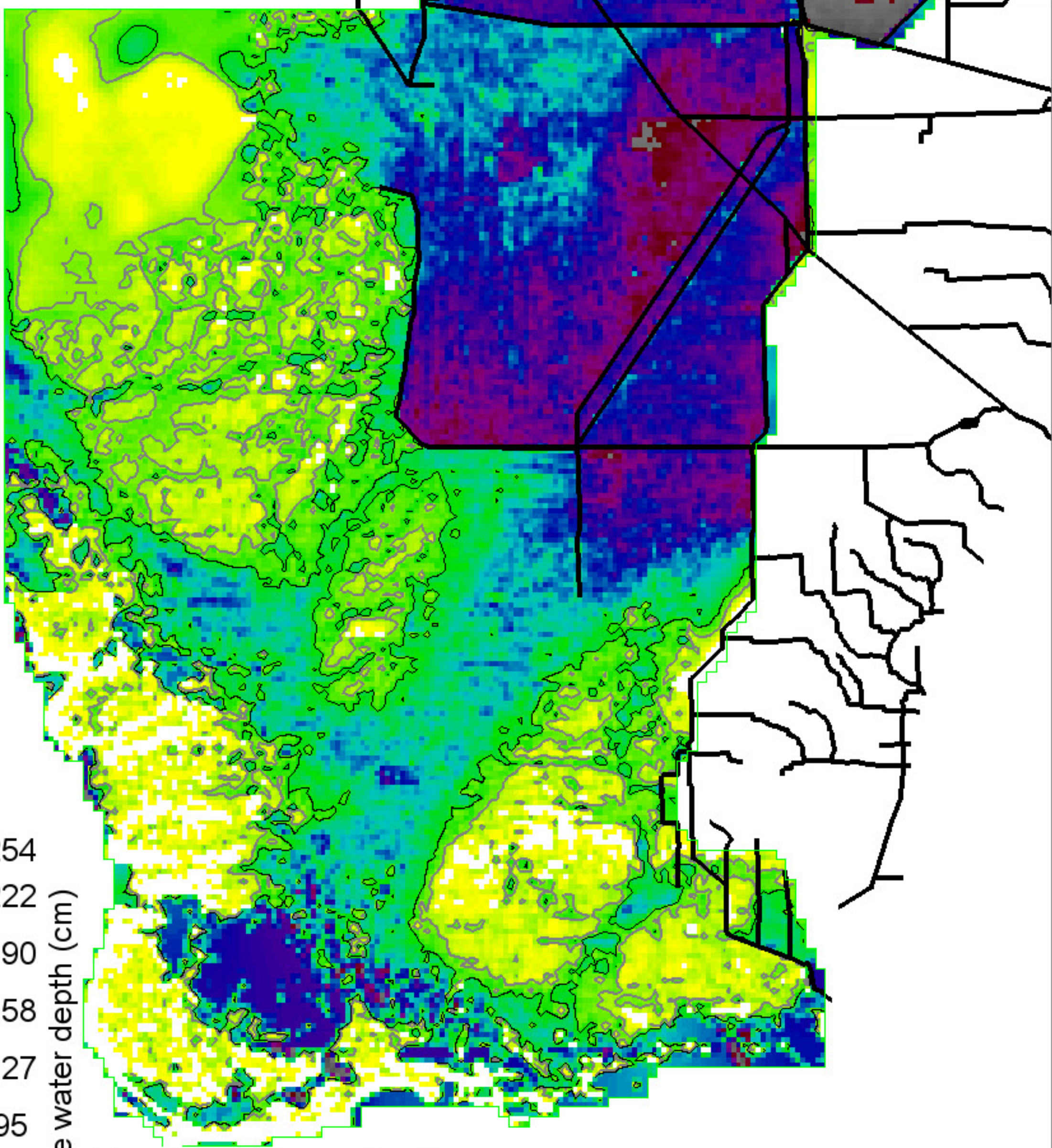
Black isolines at +/- 5 cm  
224475 ha of landscape differs by  $\leq -5$  cm  
60675 ha of landscape differs by  $\geq 5$  cm  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  cm

ASR\_BASE.MeanRaw.SfWatAvg19780410



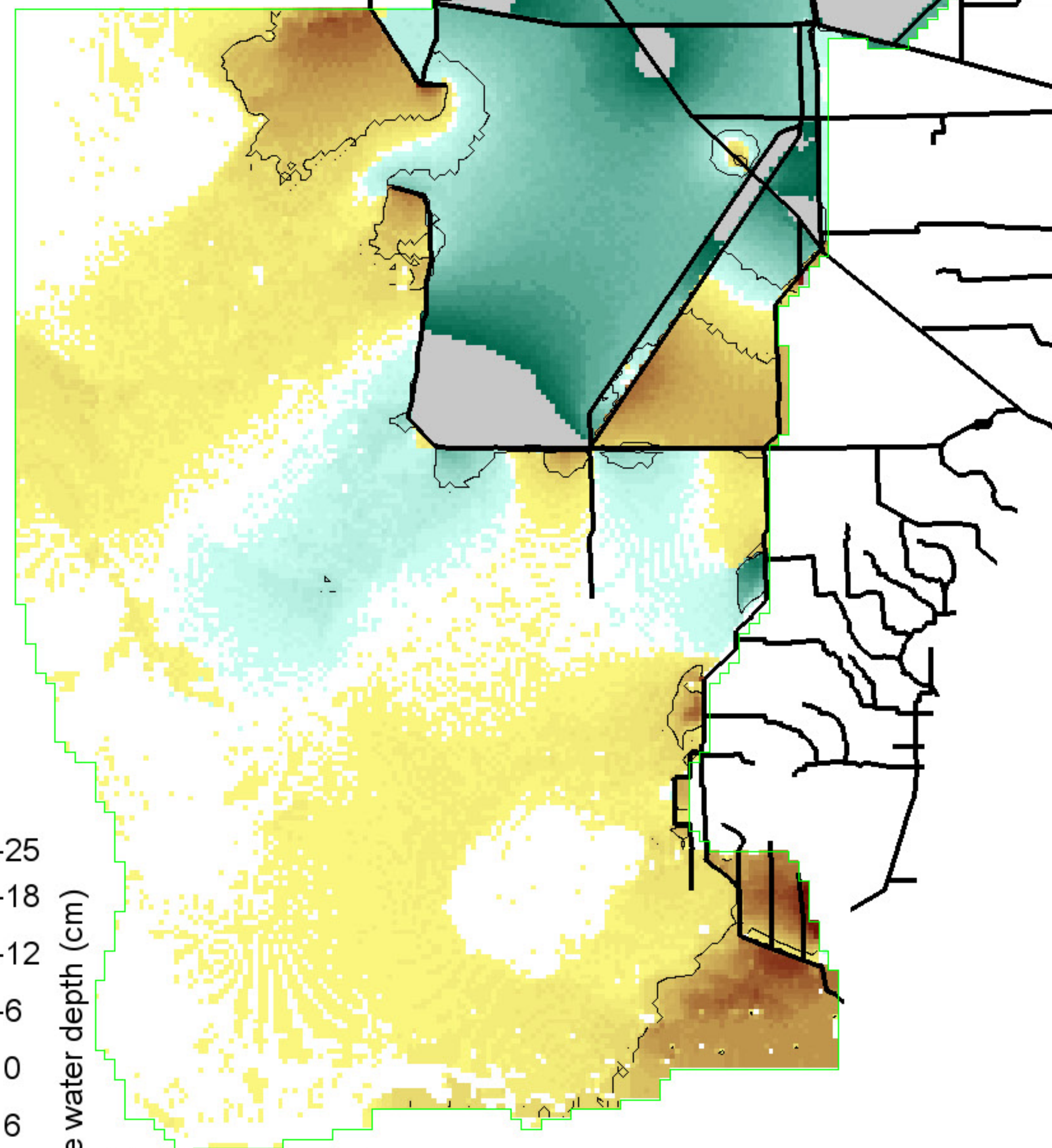
254  
222  
190  
158  
127  
95  
63  
31  
0

Grey, black isolines at 10, 20 cm  
491400 ha of landscape is  $\geq 10$  cm  
293925 ha of landscape is  $\geq 20$  cm  
1039400 ha in landscape



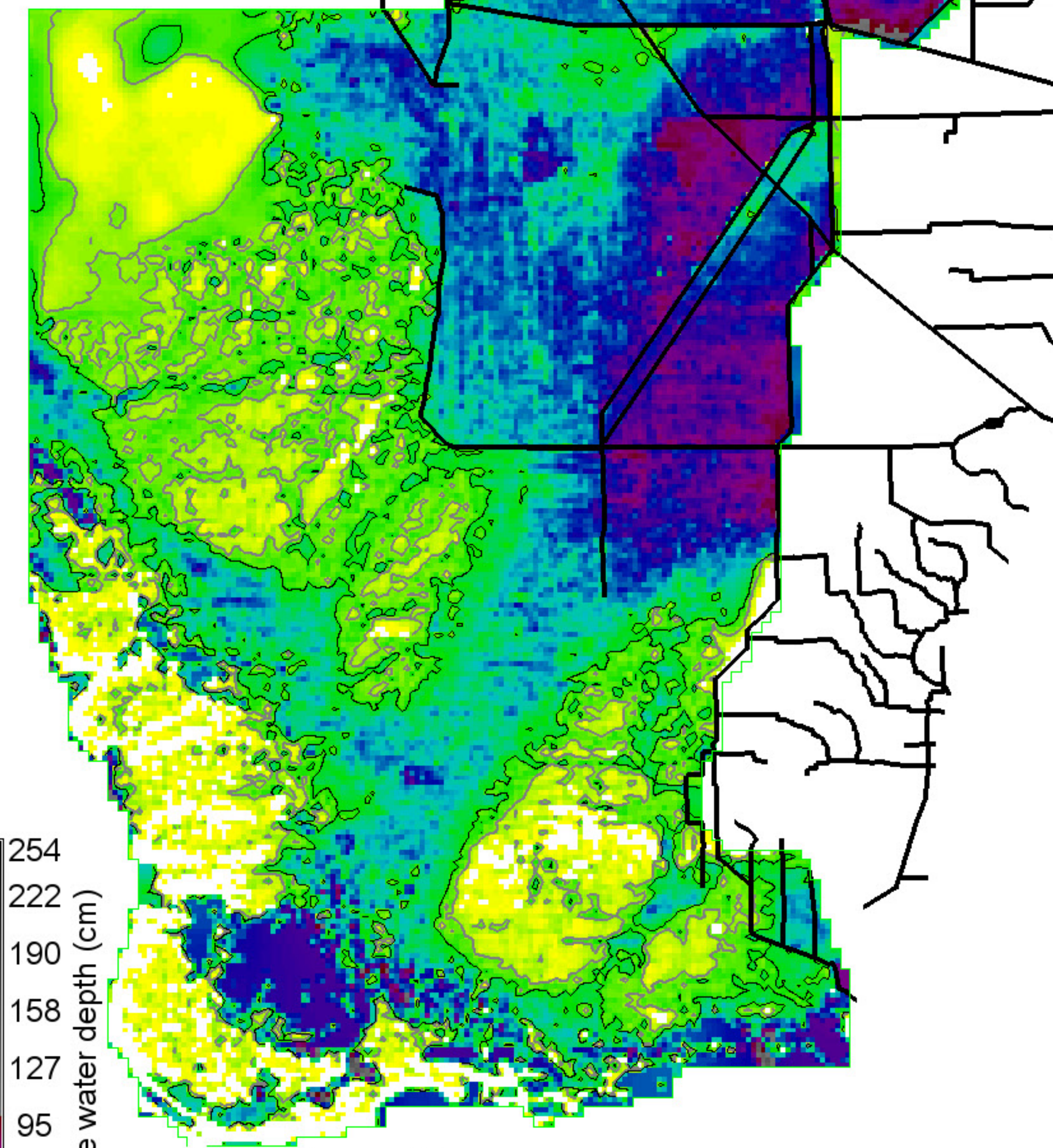
254  
222  
190  
158  
127  
95  
63  
31  
0 = white

Grey, black isolines at 10, 20 cm  
802775 ha of landscape is  $\geq 10$  cm  
633850 ha of landscape is  $\geq 20$  cm  
1039400 ha in landscape



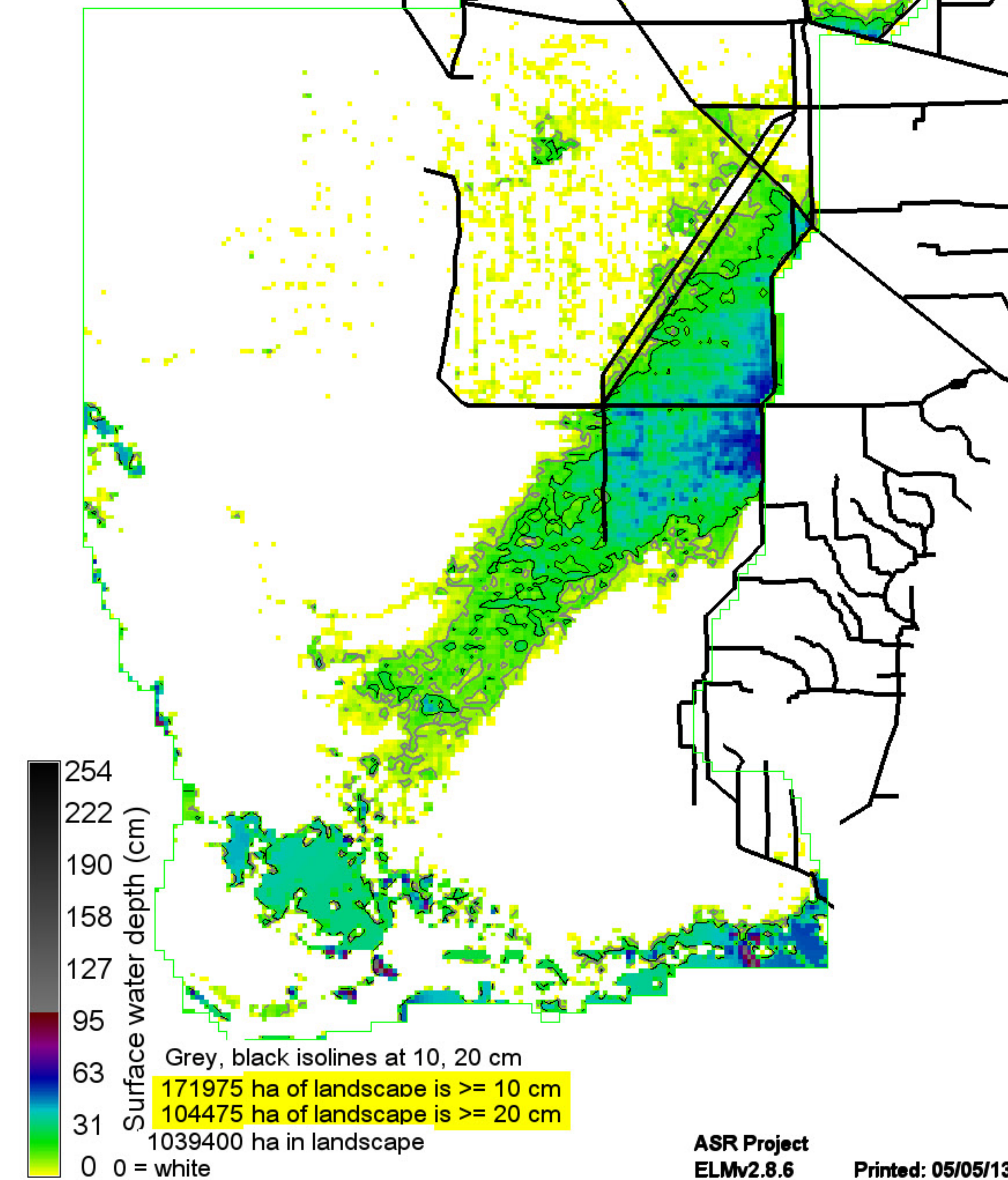
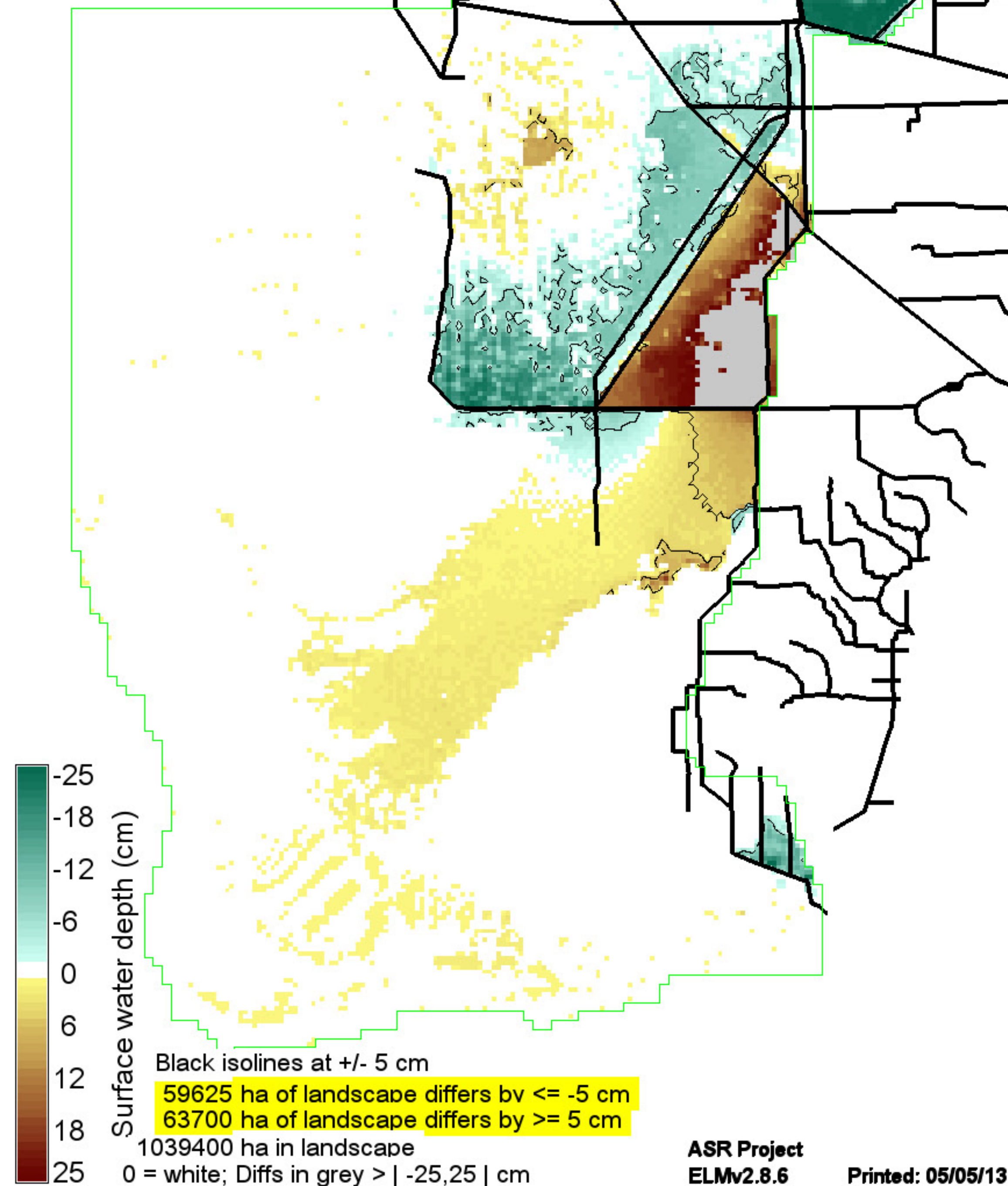
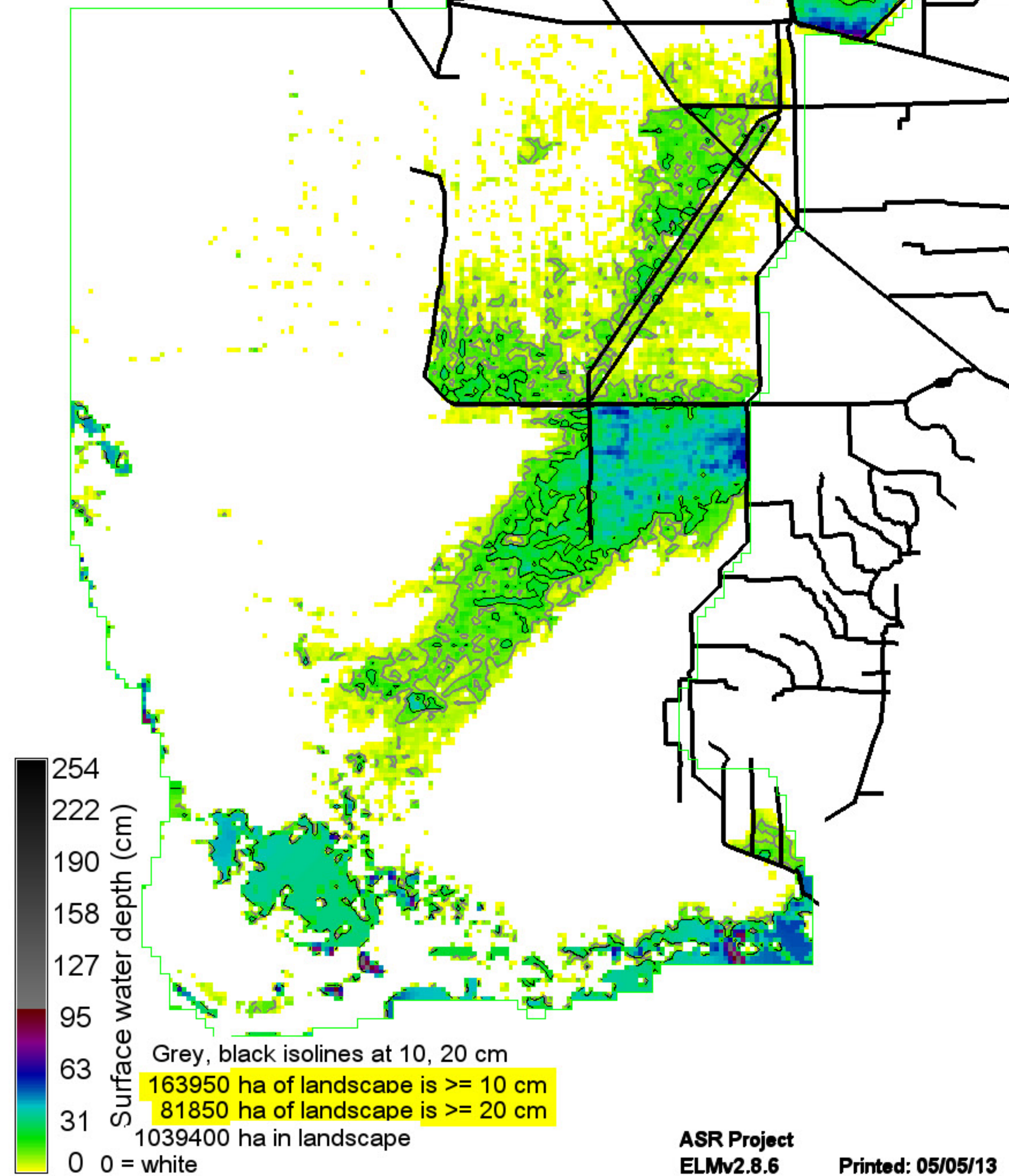
-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

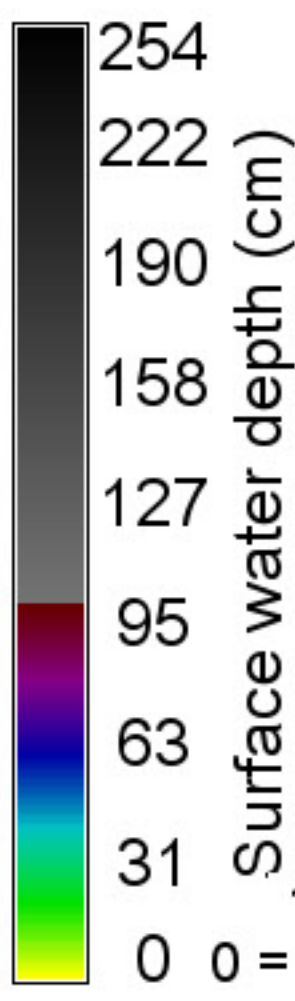
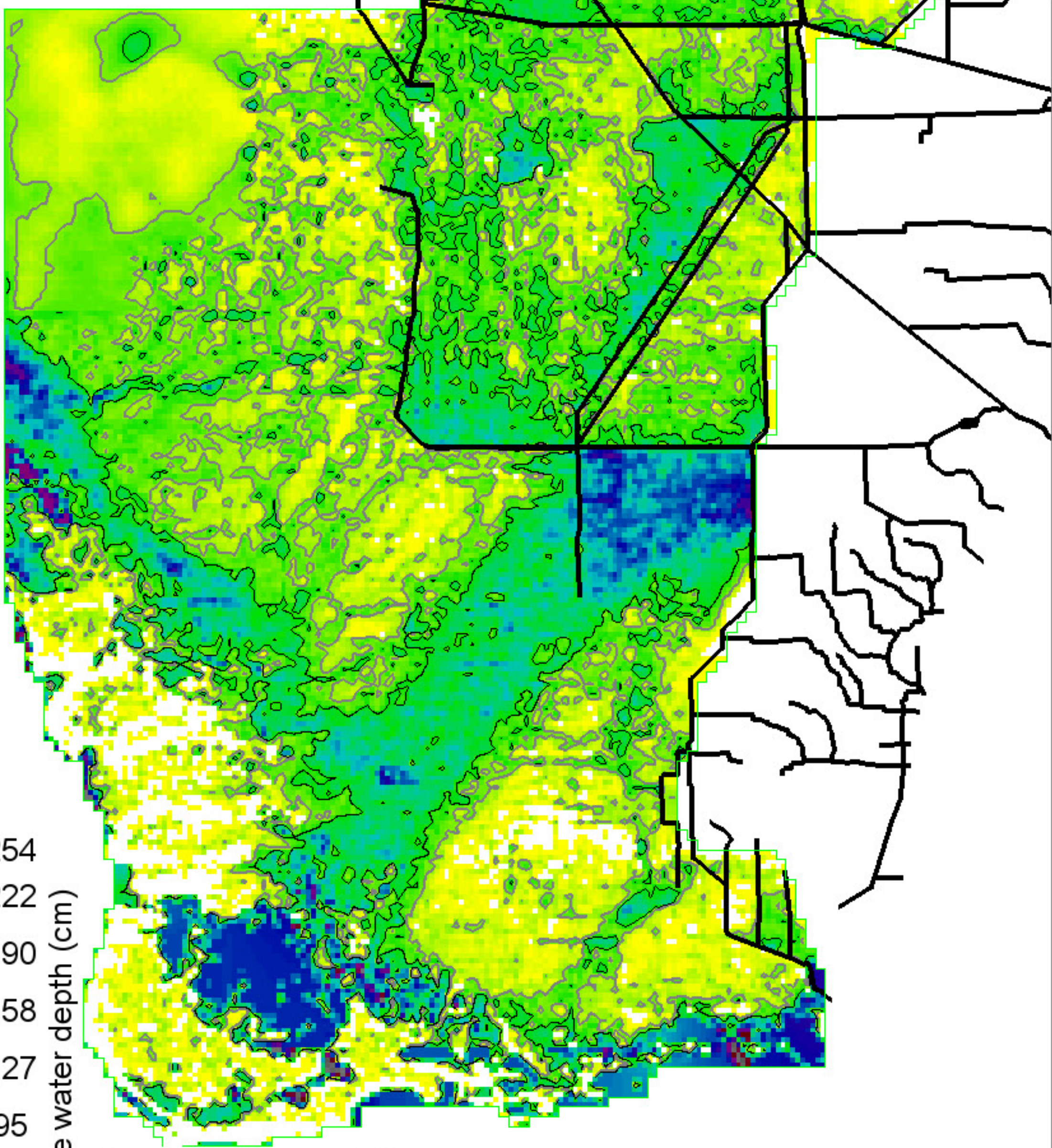
Black isolines at +/- 5 cm  
276325 ha of landscape differs by  $\leq -5$  cm  
93550 ha of landscape differs by  $\geq 5$  cm  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  cm



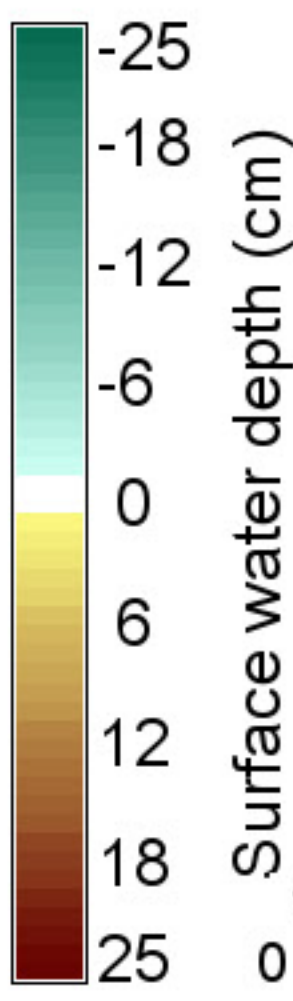
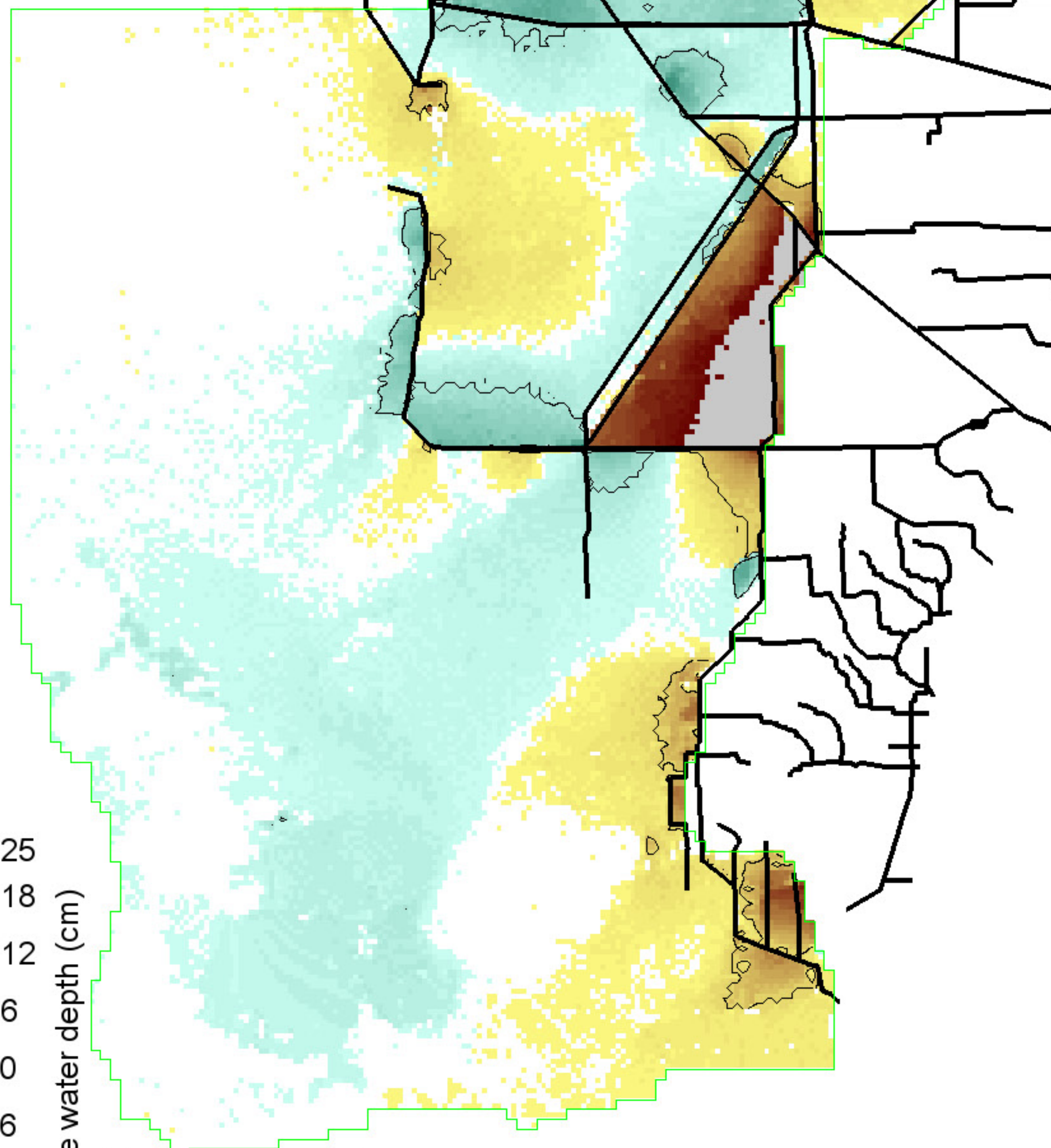
254  
222  
190  
158  
127  
95  
63  
31  
0 = white

Grey, black isolines at 10, 20 cm  
826000 ha of landscape is  $\geq 10$  cm  
636200 ha of landscape is  $\geq 20$  cm  
1039400 ha in landscape

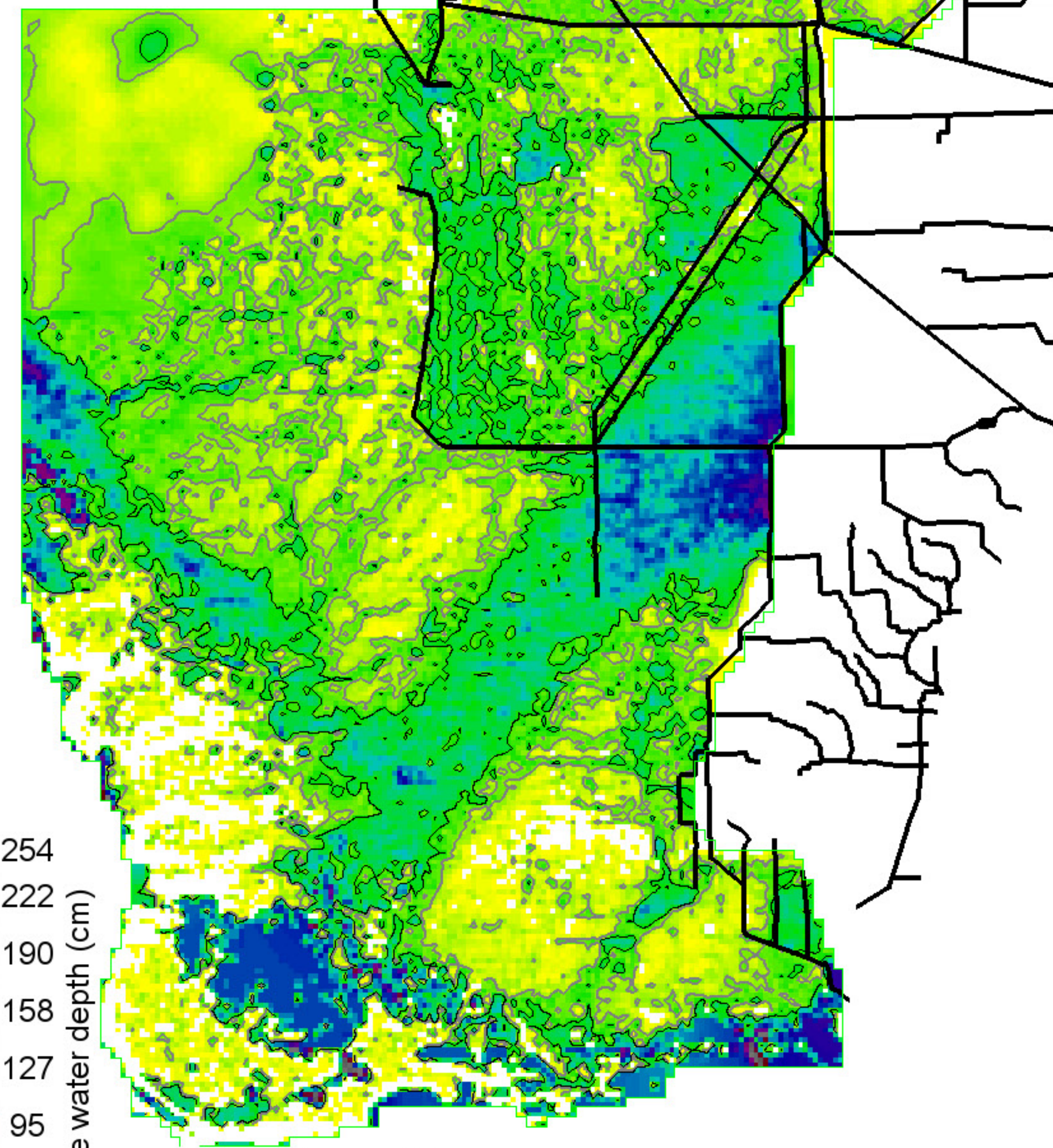




Grey, black isolines at 10, 20 cm  
 623750 ha of landscape is  $\geq 10$  cm  
 316475 ha of landscape is  $\geq 20$  cm  
 1039400 ha in landscape

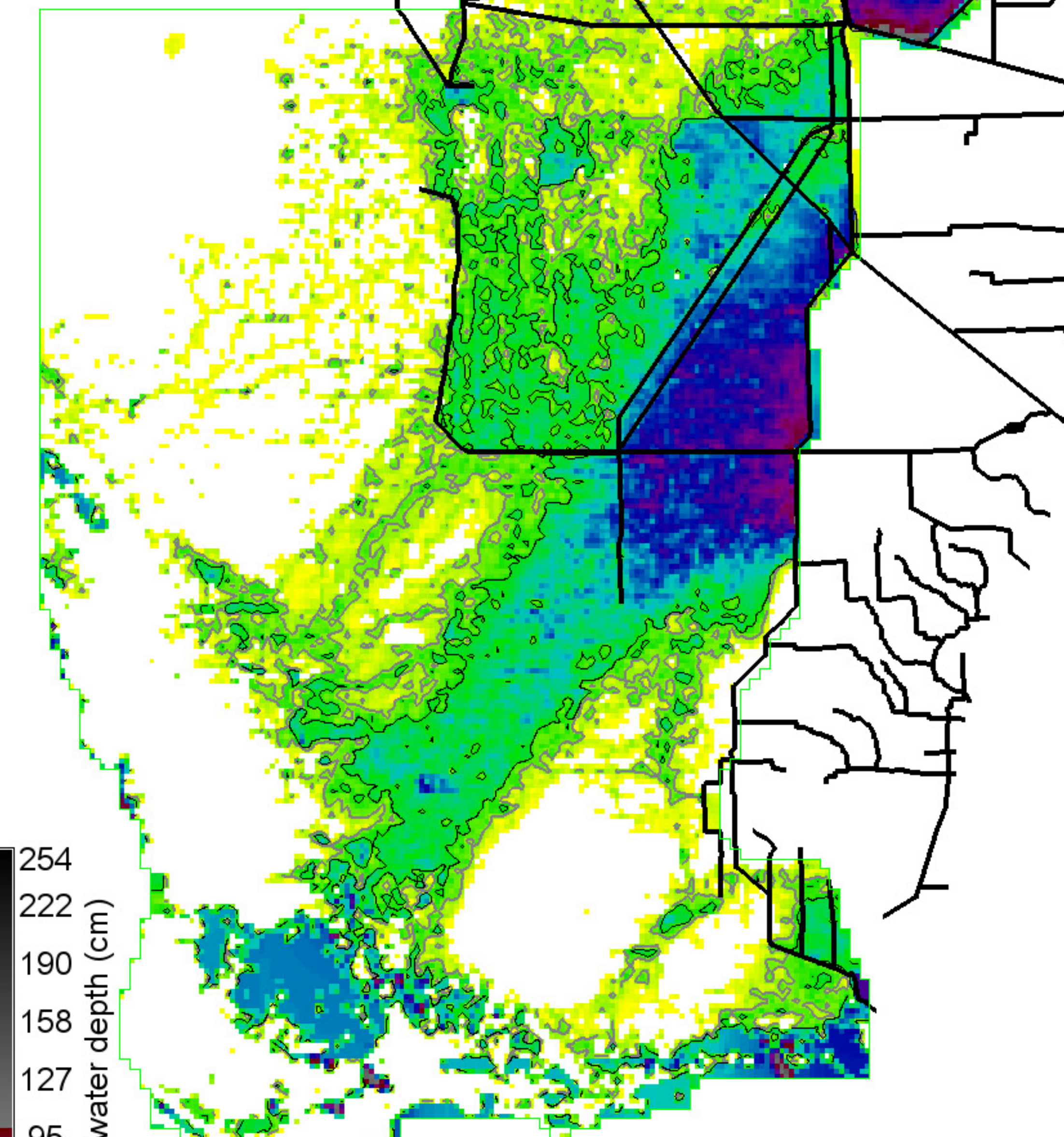
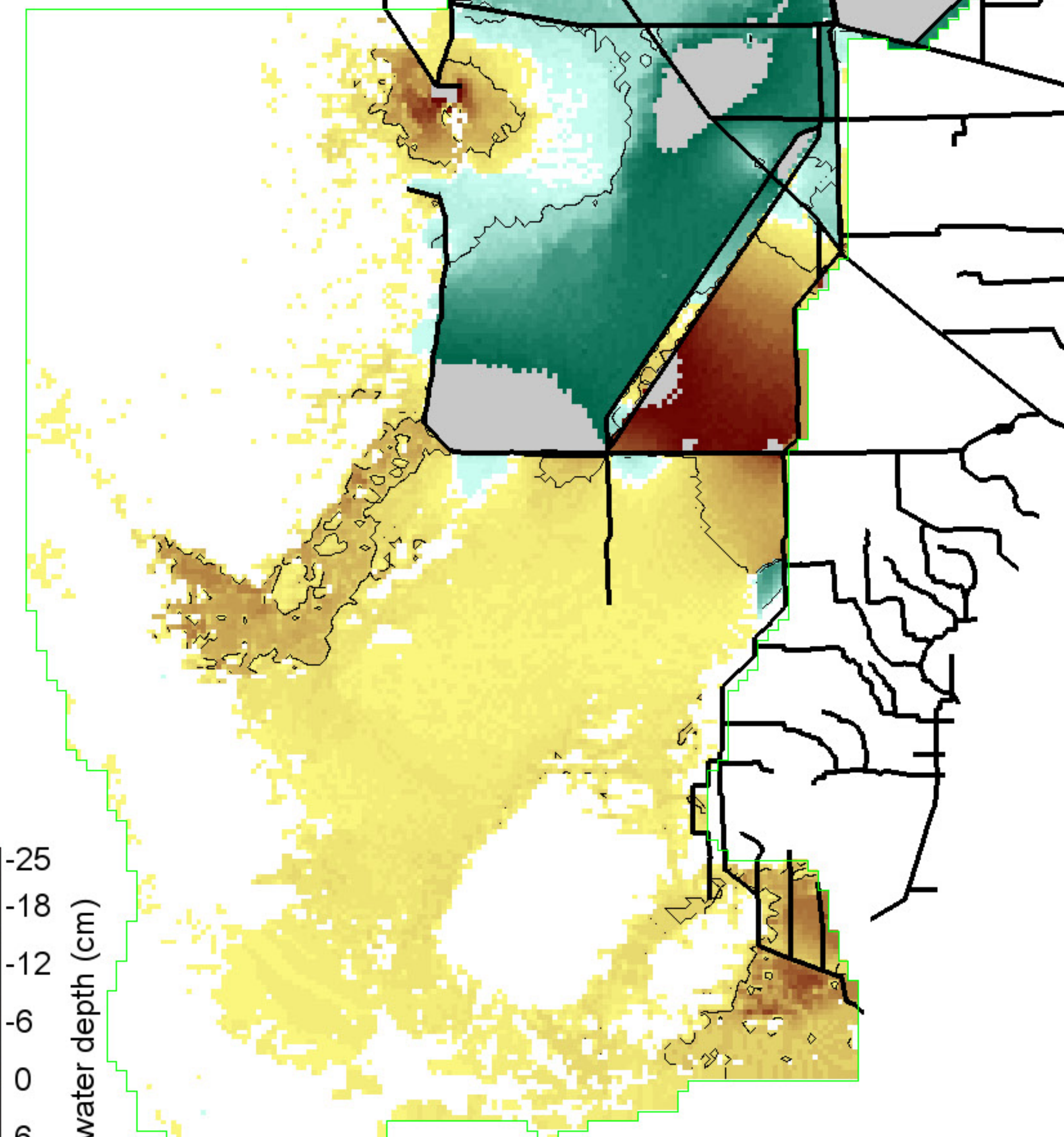
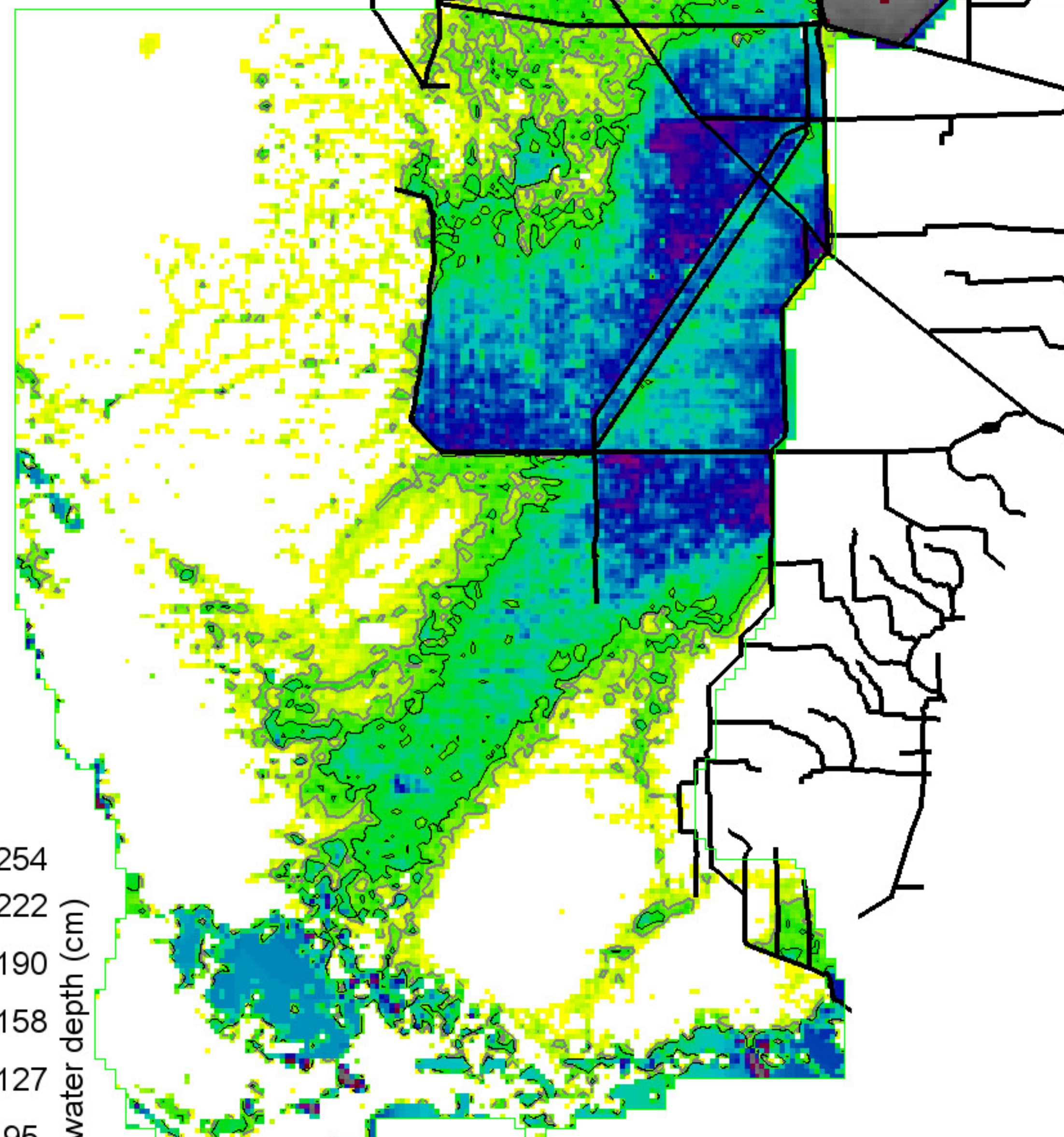


Black isolines at +/- 5 cm  
 89450 ha of landscape differs by  $\leq -5$  cm  
 68750 ha of landscape differs by  $\geq 5$  cm  
 1039400 ha in landscape  
 0 = white; Diffs in grey  $> | -25, 25 |$  cm



Grey, black isolines at 10, 20 cm  
 623725 ha of landscape is  $\geq 10$  cm  
 307000 ha of landscape is  $\geq 20$  cm  
 1039400 ha in landscape





Surface water depth (cm)

254  
222  
190  
158  
127  
95  
63  
31  
0 = white

Grey, black isolines at 10, 20 cm  
489825 ha of landscape is  $\geq 10$  cm  
339575 ha of landscape is  $\geq 20$  cm  
1039400 ha in landscape

Surface water depth (cm)

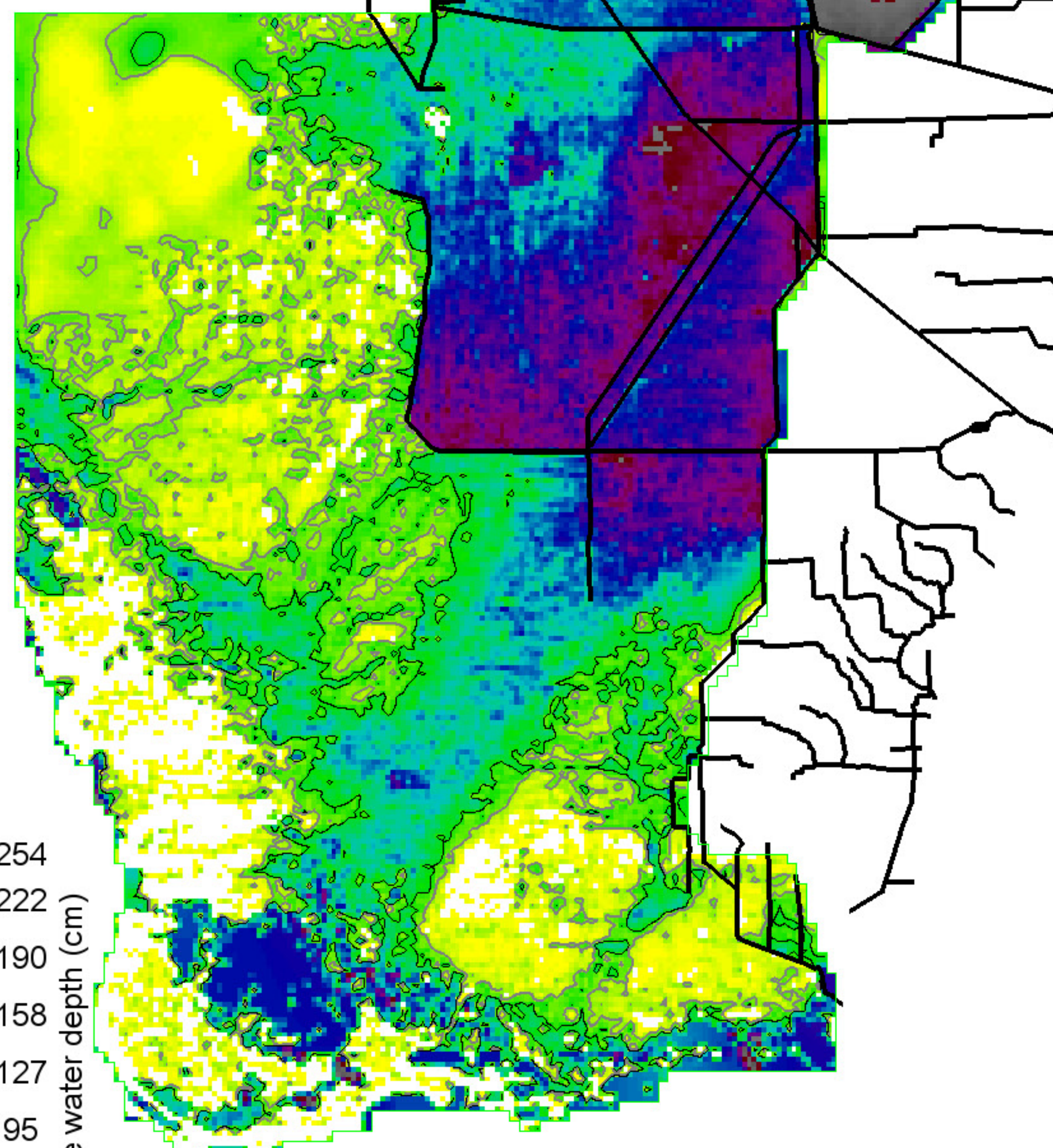
-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

Black isolines at +/- 5 cm  
223325 ha of landscape differs by  $\leq -5$  cm  
96950 ha of landscape differs by  $\geq 5$  cm  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  cm

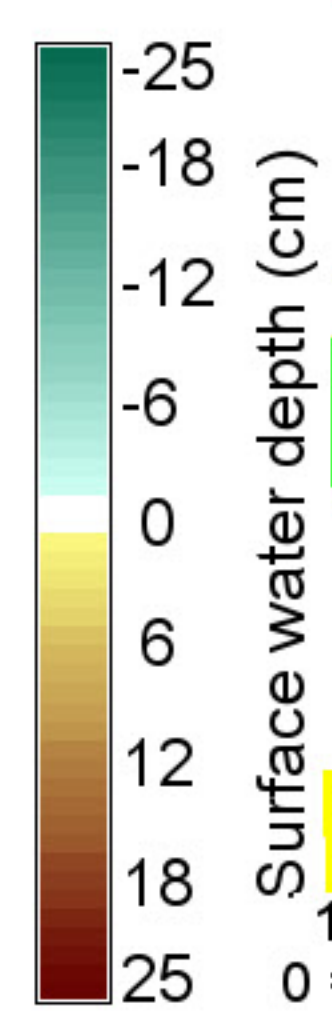
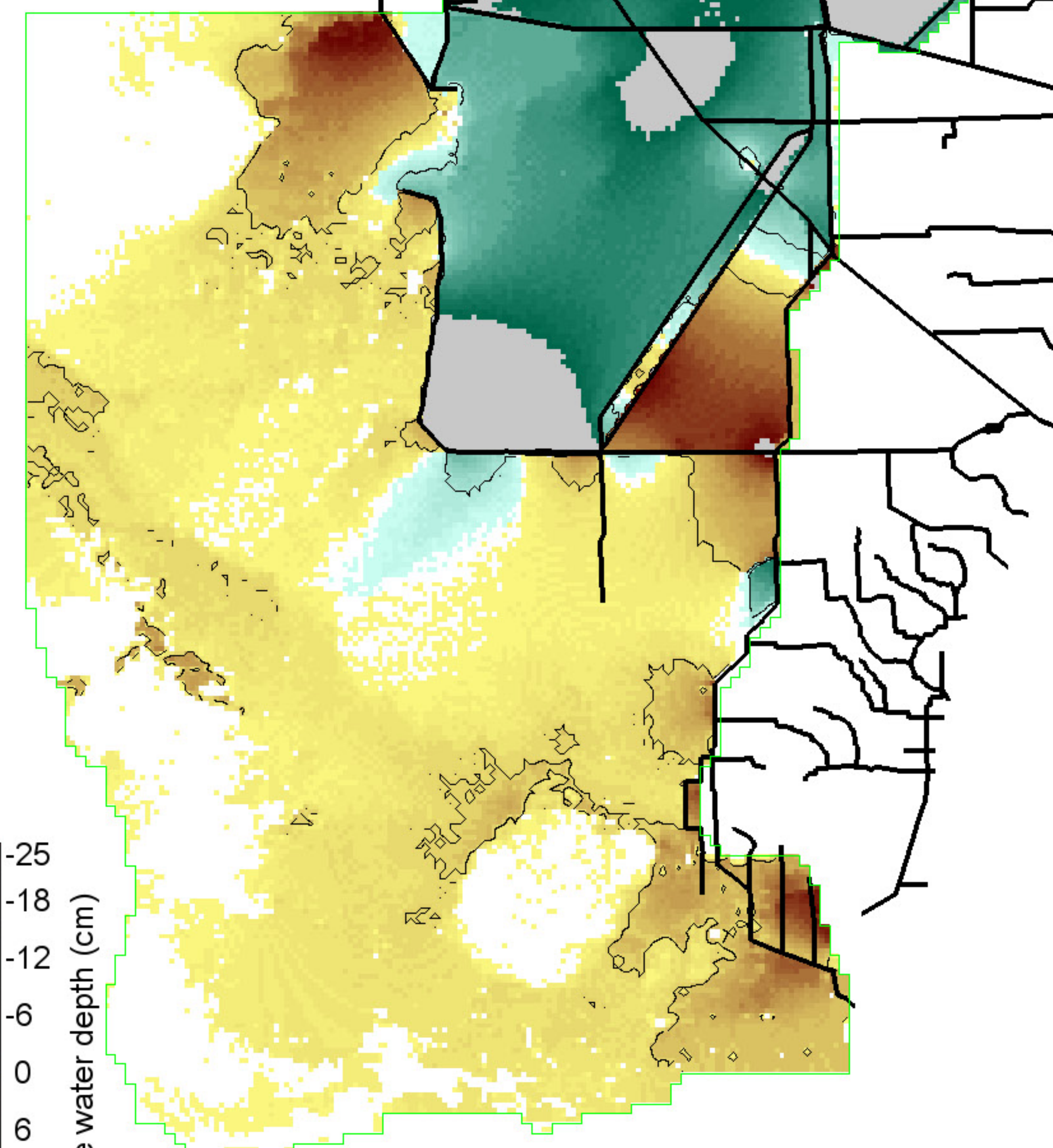
Surface water depth (cm)

254  
222  
190  
158  
127  
95  
63  
31  
0 = white

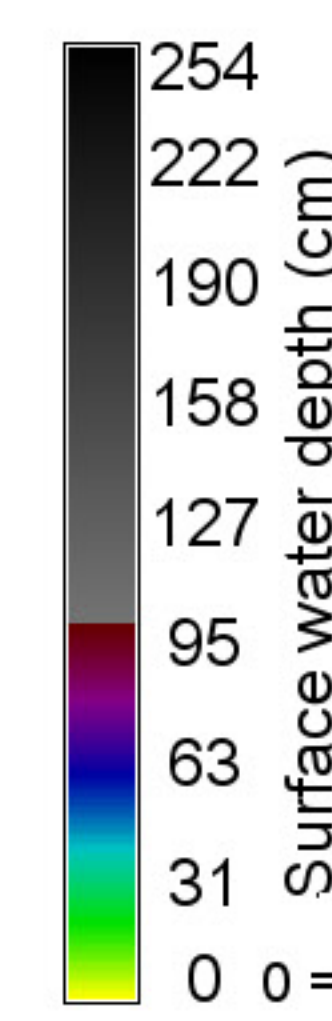
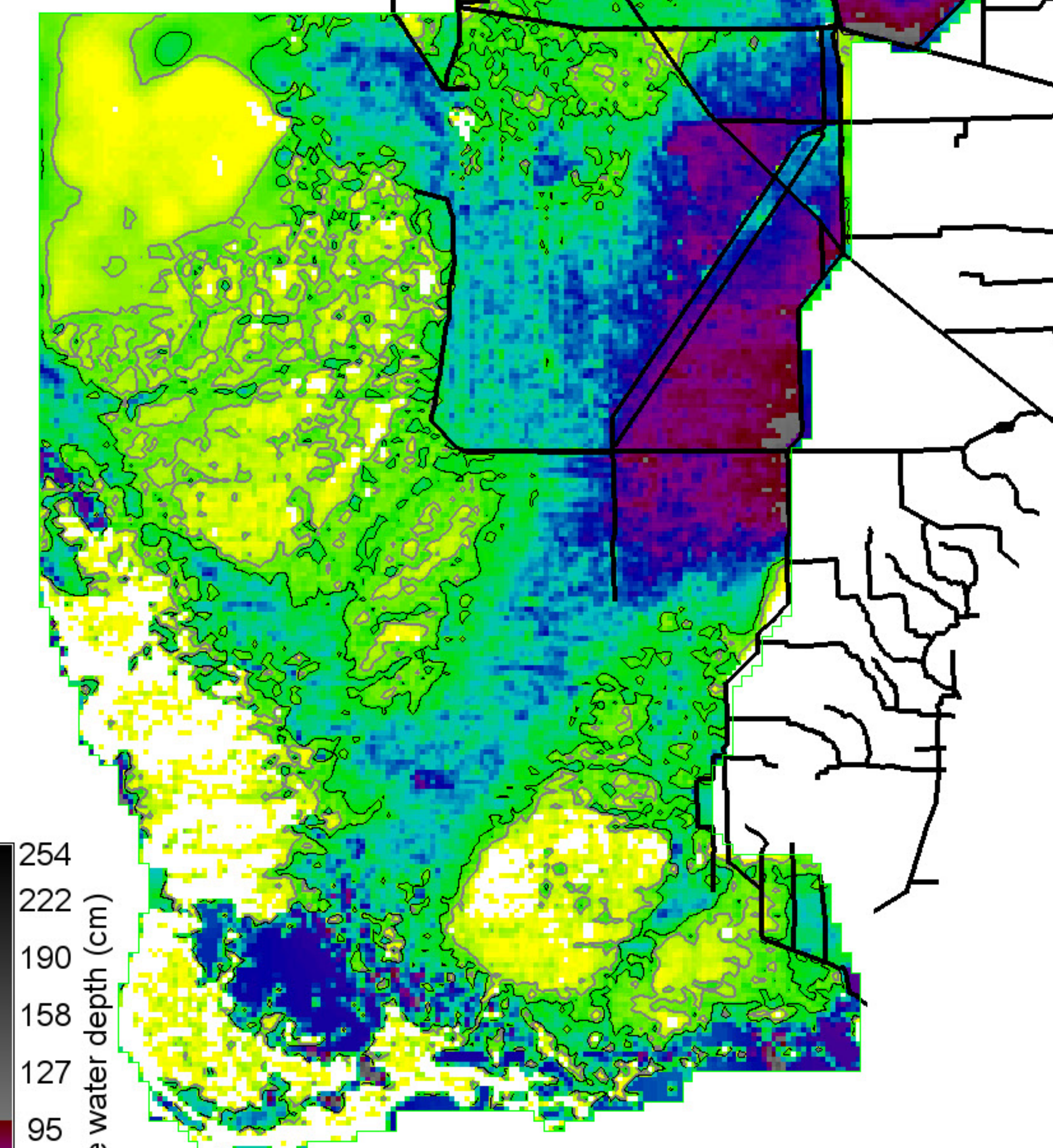
Grey, black isolines at 10, 20 cm  
445400 ha of landscape is  $\geq 10$  cm  
281225 ha of landscape is  $\geq 20$  cm  
1039400 ha in landscape



Grey, black isolines at 10, 20 cm  
 747650 ha of landscape is  $\geq 10$  cm  
 595250 ha of landscape is  $\geq 20$  cm  
 1039400 ha in landscape



Black isolines at +/- 5 cm  
 273900 ha of landscape differs by  $\leq -5$  cm  
 141575 ha of landscape differs by  $\geq 5$  cm  
 1039400 ha in landscape  
 0 = white; Diffs in grey  $> | -25, 25 |$  cm

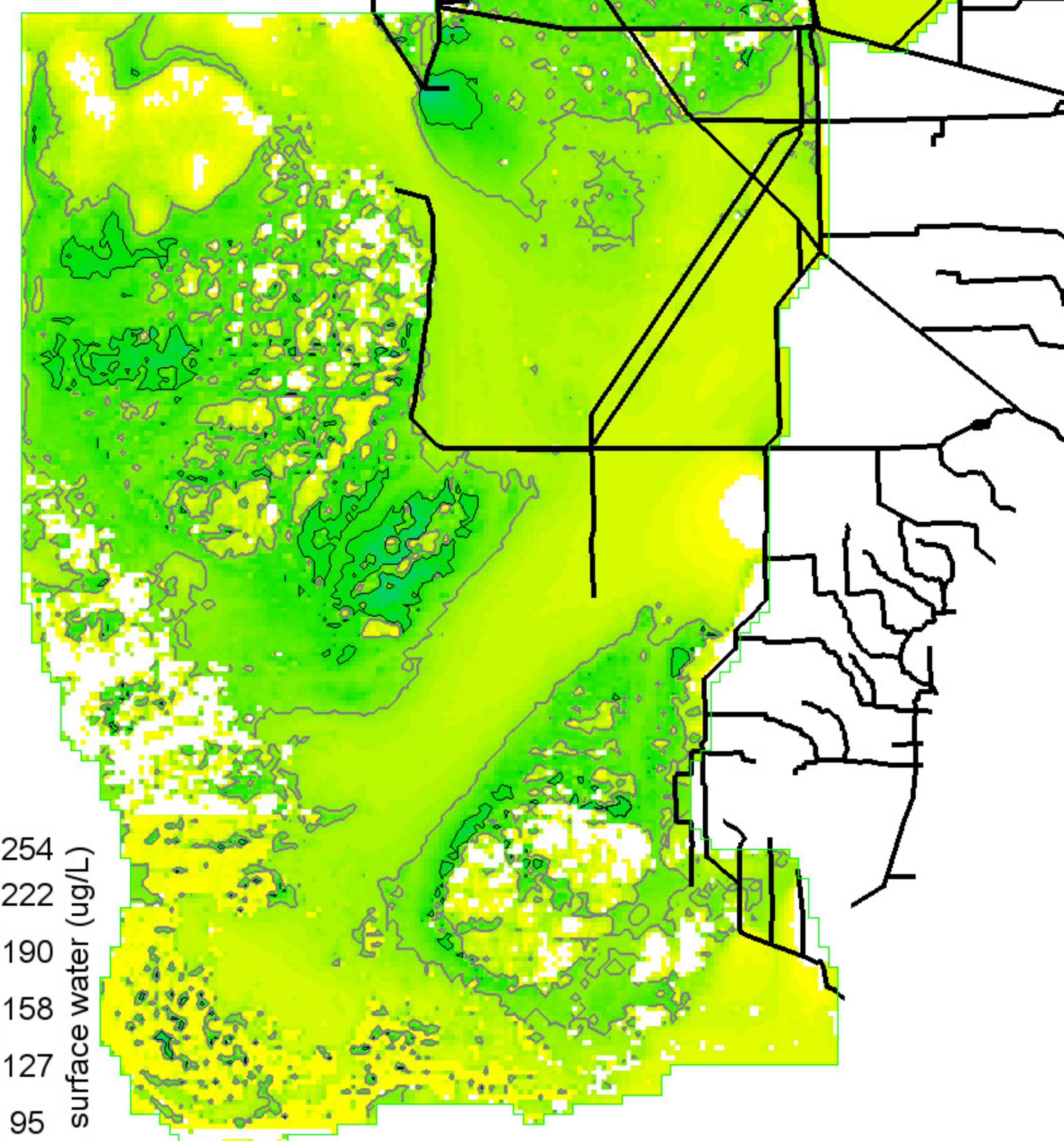
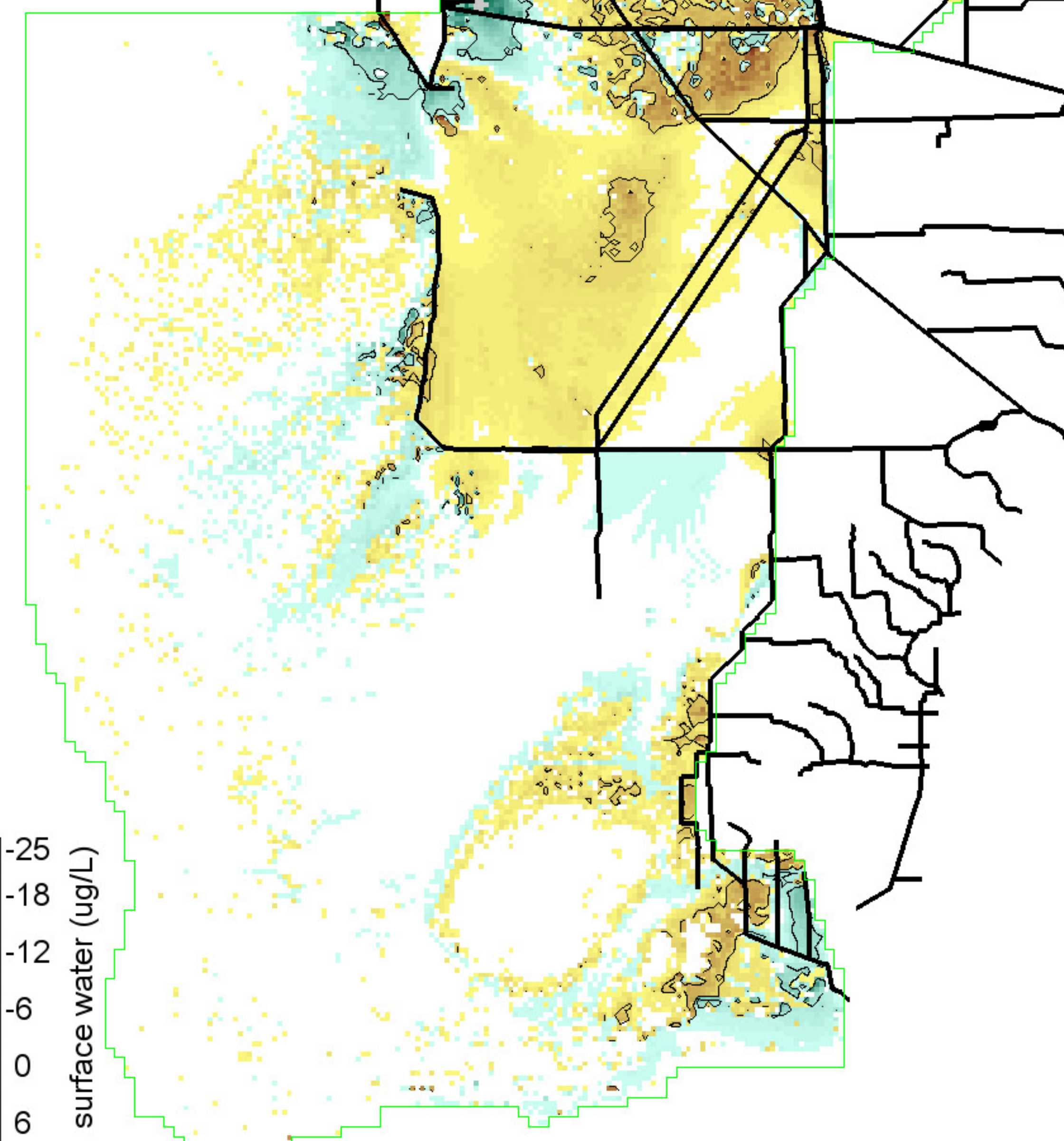
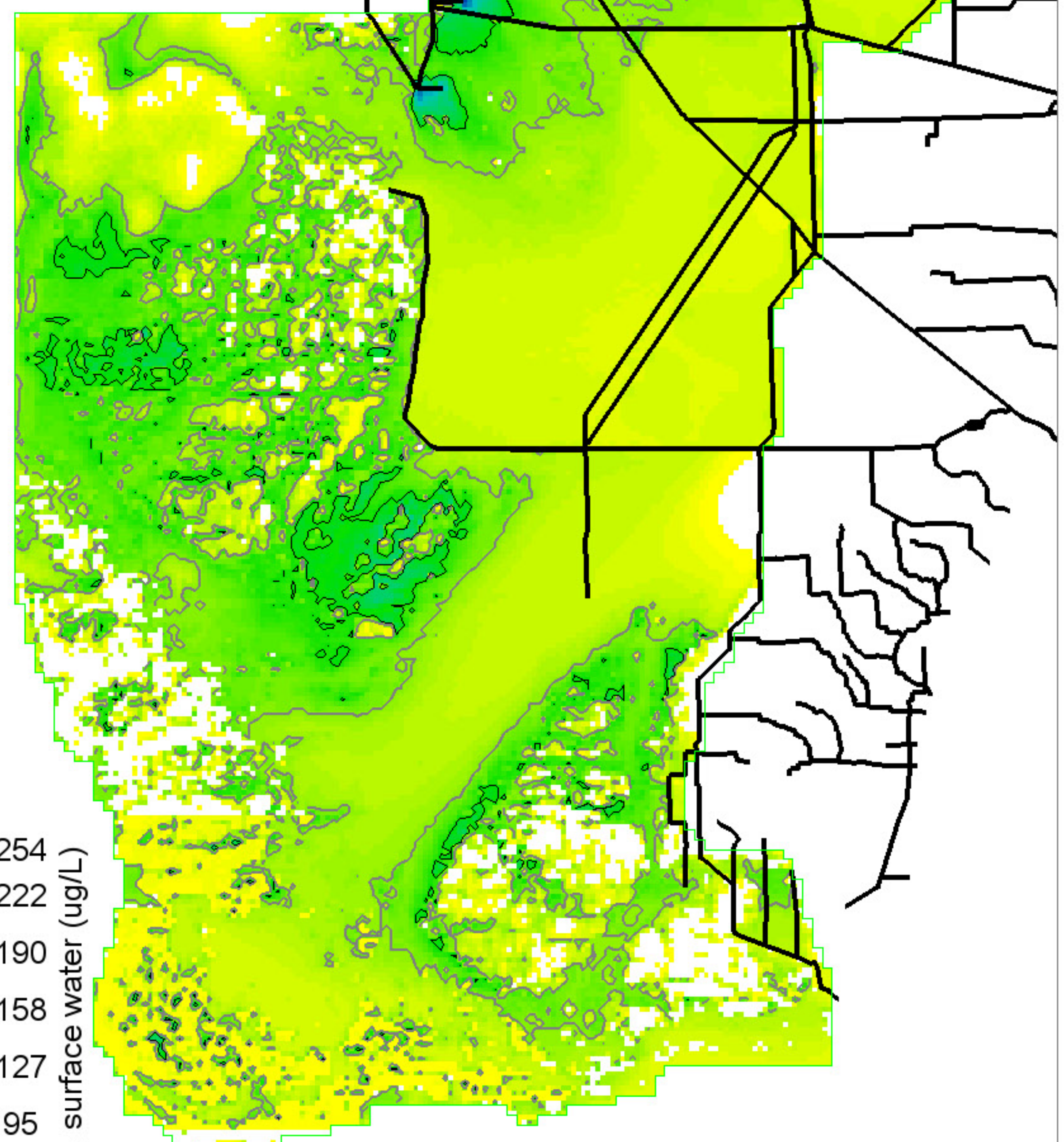


Grey, black isolines at 10, 20 cm  
 791025 ha of landscape is  $\geq 10$  cm  
 586125 ha of landscape is  $\geq 20$  cm  
 1039400 ha in landscape

2050B2.MeanRaw.TPSfWatAvg19780410

Right Map minus Left Map

ASR\_BASE.MeanRaw.TPSfWatAvg19780410



254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
 345625 ha of landscape is  $\geq 10$  ug/L  
 45575 ha of landscape is  $\geq 20$  ug/L  
 1039400 ha in landscape

-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

P conc. surface water (ug/L)

Black isolines at +/- 5 ug/L  
 34675 ha of landscape differs by  $\leq -5$  ug/L  
 55750 ha of landscape differs by  $\geq 5$  ug/L  
 1039400 ha in landscape  
 0 = white; Diffs in grey  $> | -25, 25 |$  ug/L

254  
222  
190  
158  
127  
95  
63  
31  
0 = white

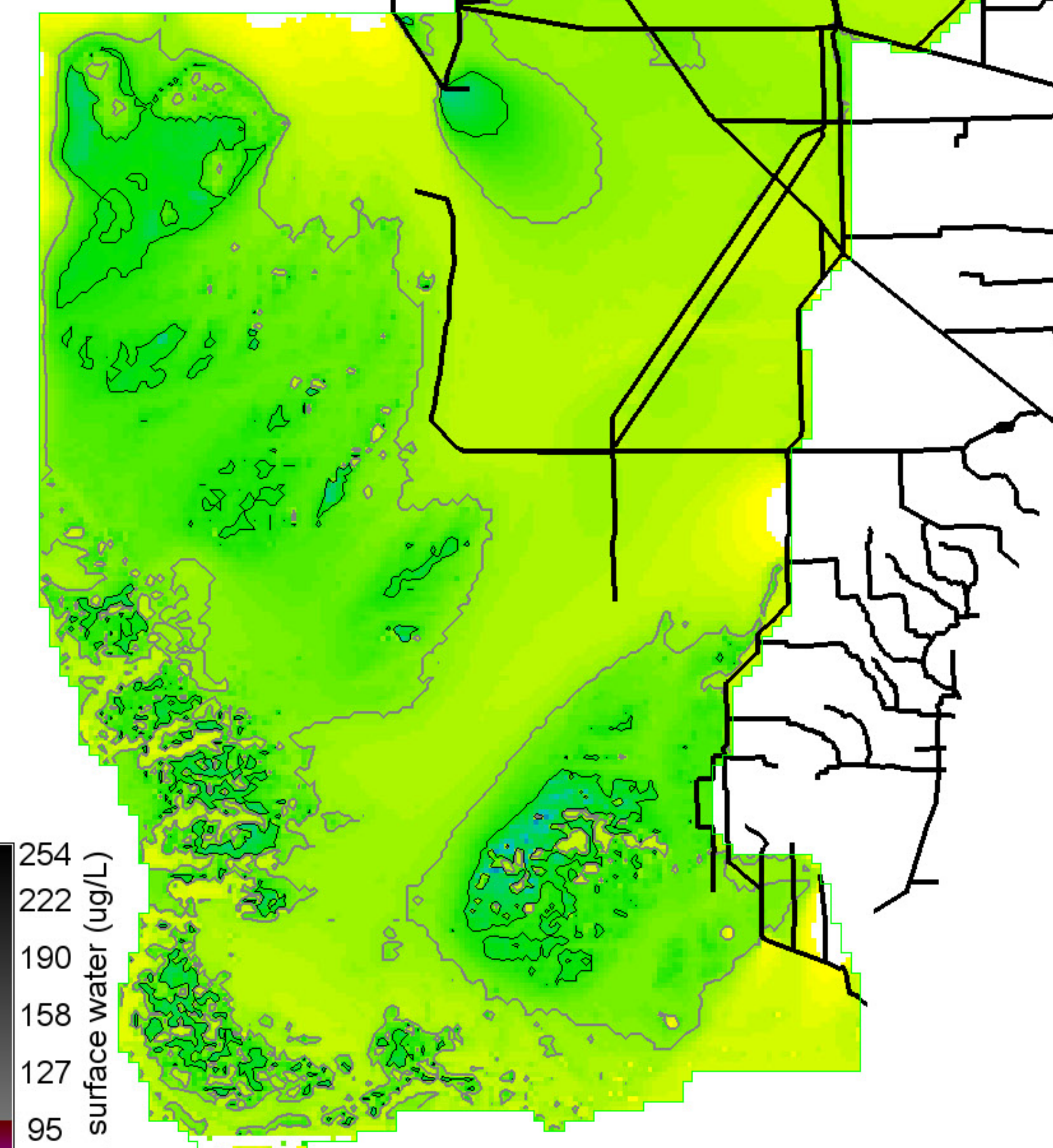
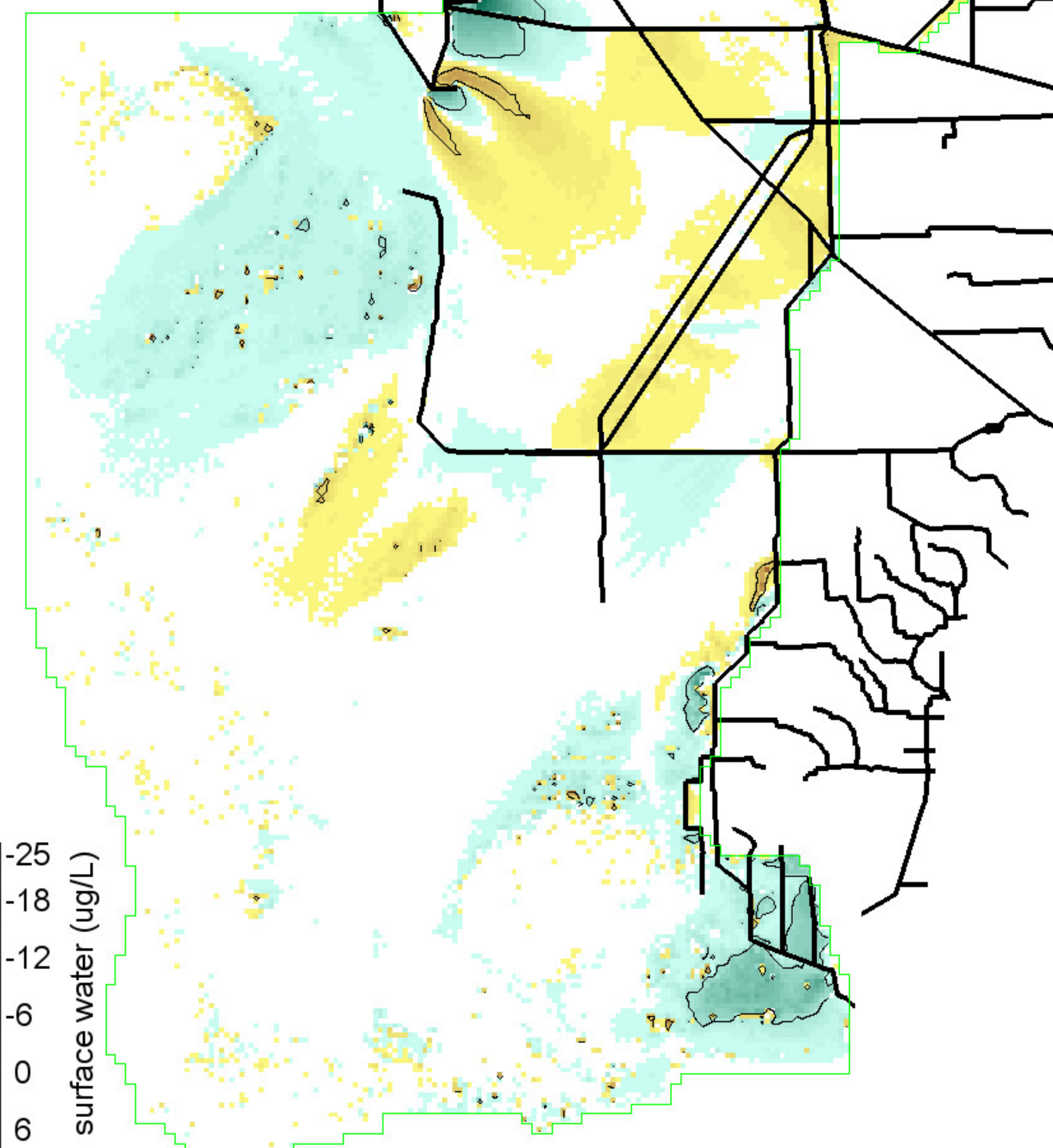
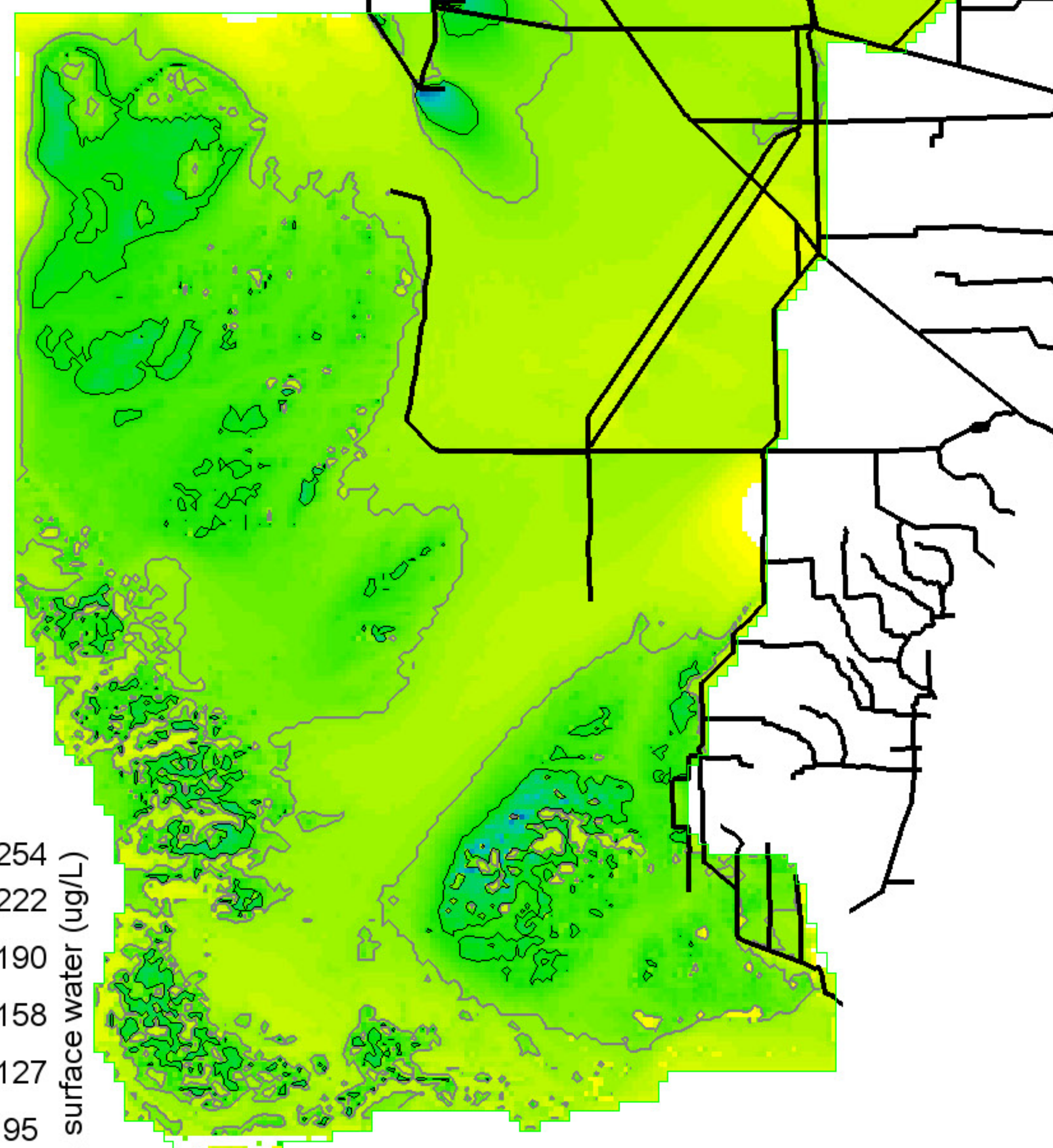
P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
 371900 ha of landscape is  $\geq 10$  ug/L  
 47850 ha of landscape is  $\geq 20$  ug/L  
 1039400 ha in landscape

2050B2.MeanRaw.TPSfWatAvg19780907

Right Map minus Left Map

ASR\_BASE.MeanRaw.TPSfWatAvg19780907



254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
444025 ha of landscape is  $\geq 10$  ug/L  
79875 ha of landscape is  $\geq 20$  ug/L  
1039400 ha in landscape

-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

P conc. surface water (ug/L)

Black isolines at +/- 5 ug/L  
24350 ha of landscape differs by  $\leq -5$  ug/L  
8450 ha of landscape differs by  $\geq 5$  ug/L  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  ug/L

254  
222  
190  
158  
127  
95  
63  
31  
0 = white

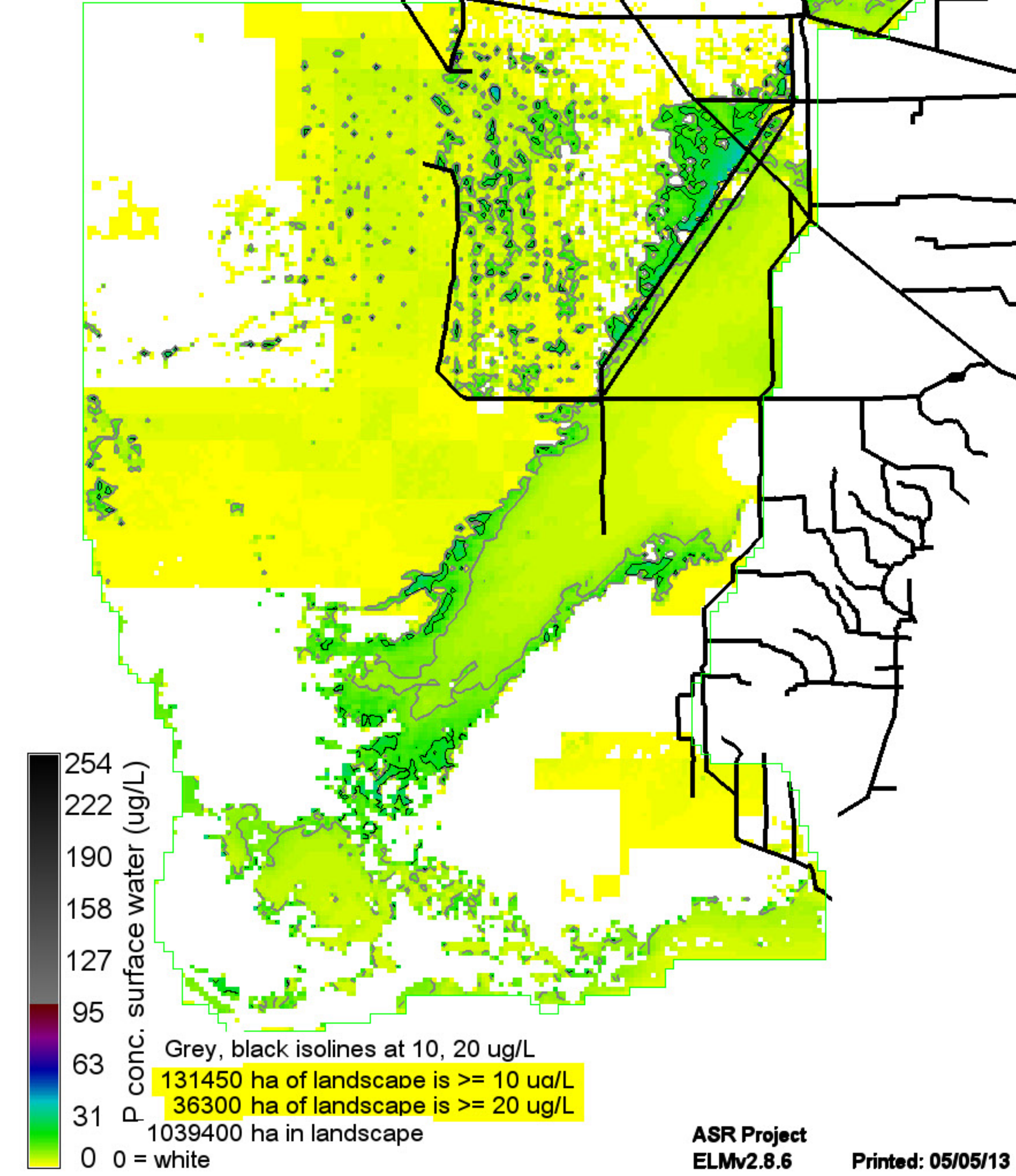
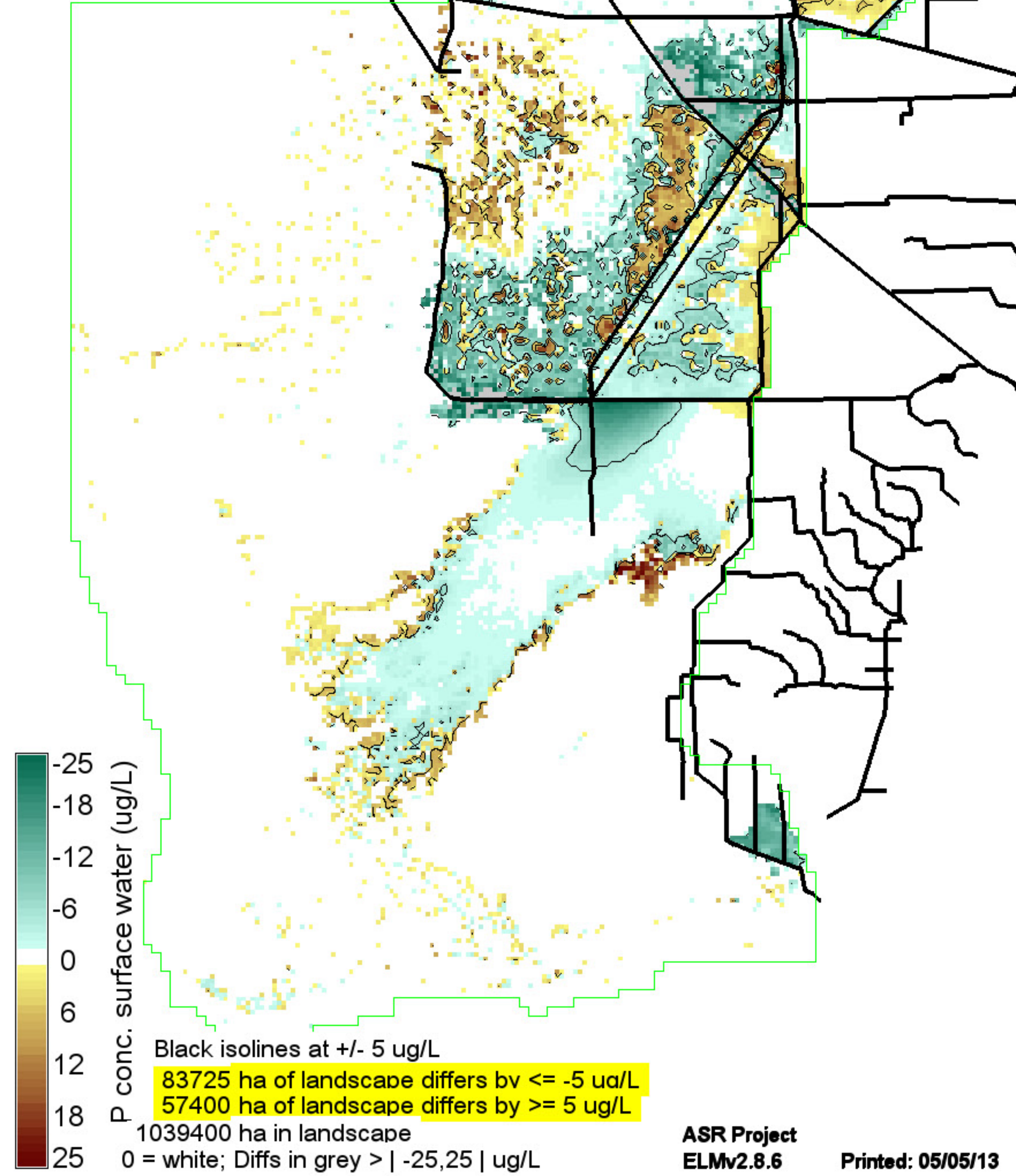
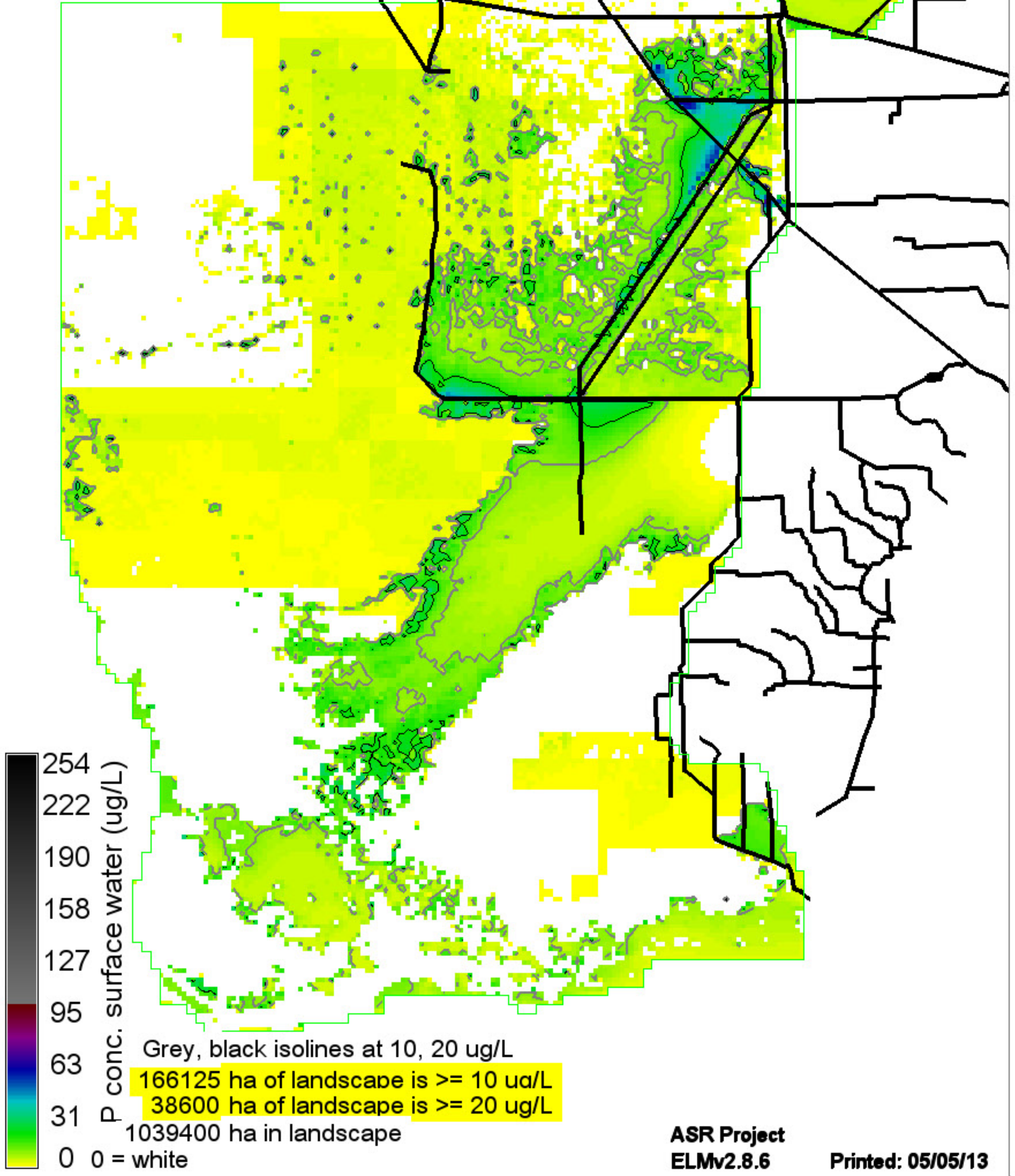
P conc. surface water (ug/L)

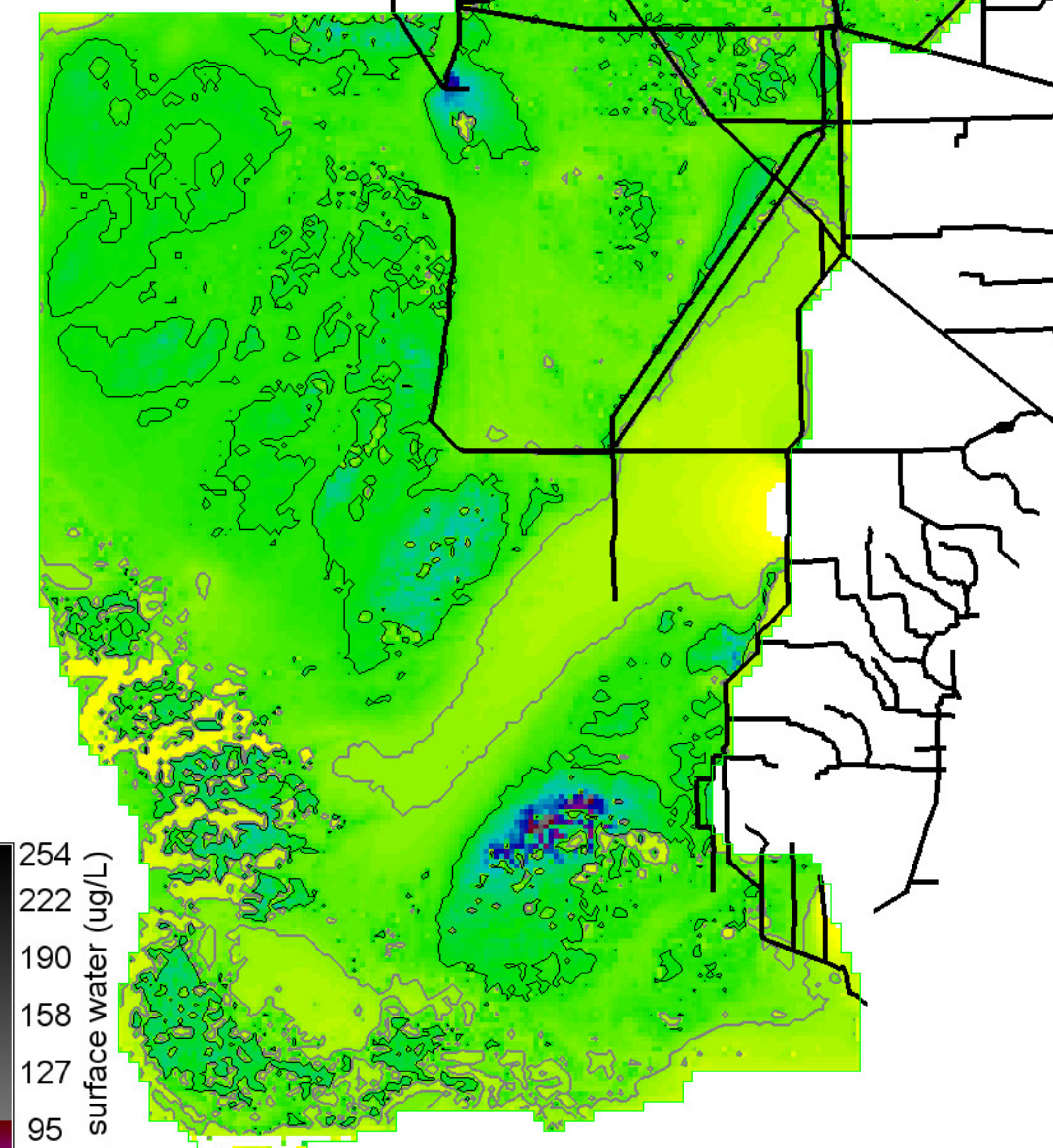
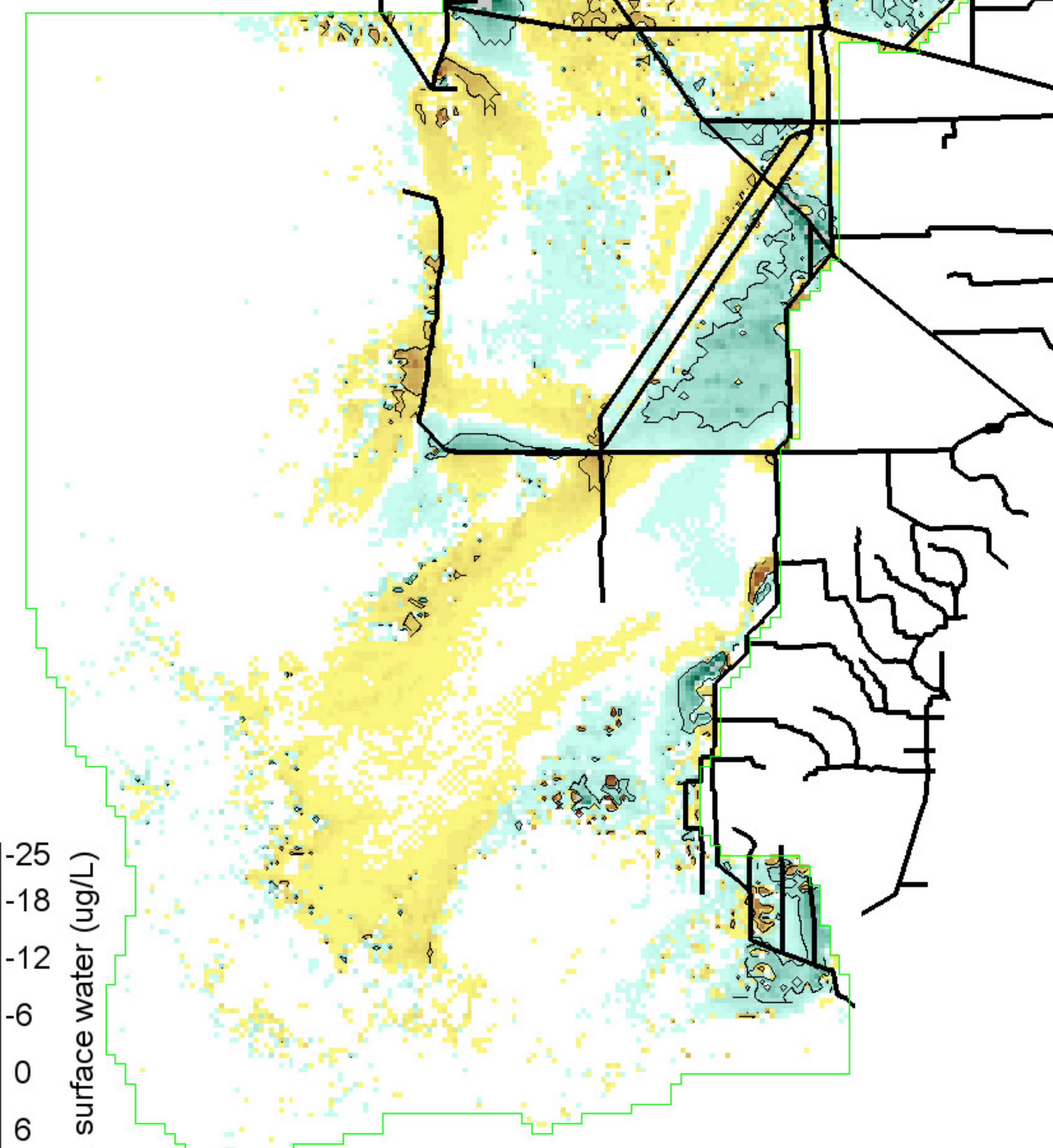
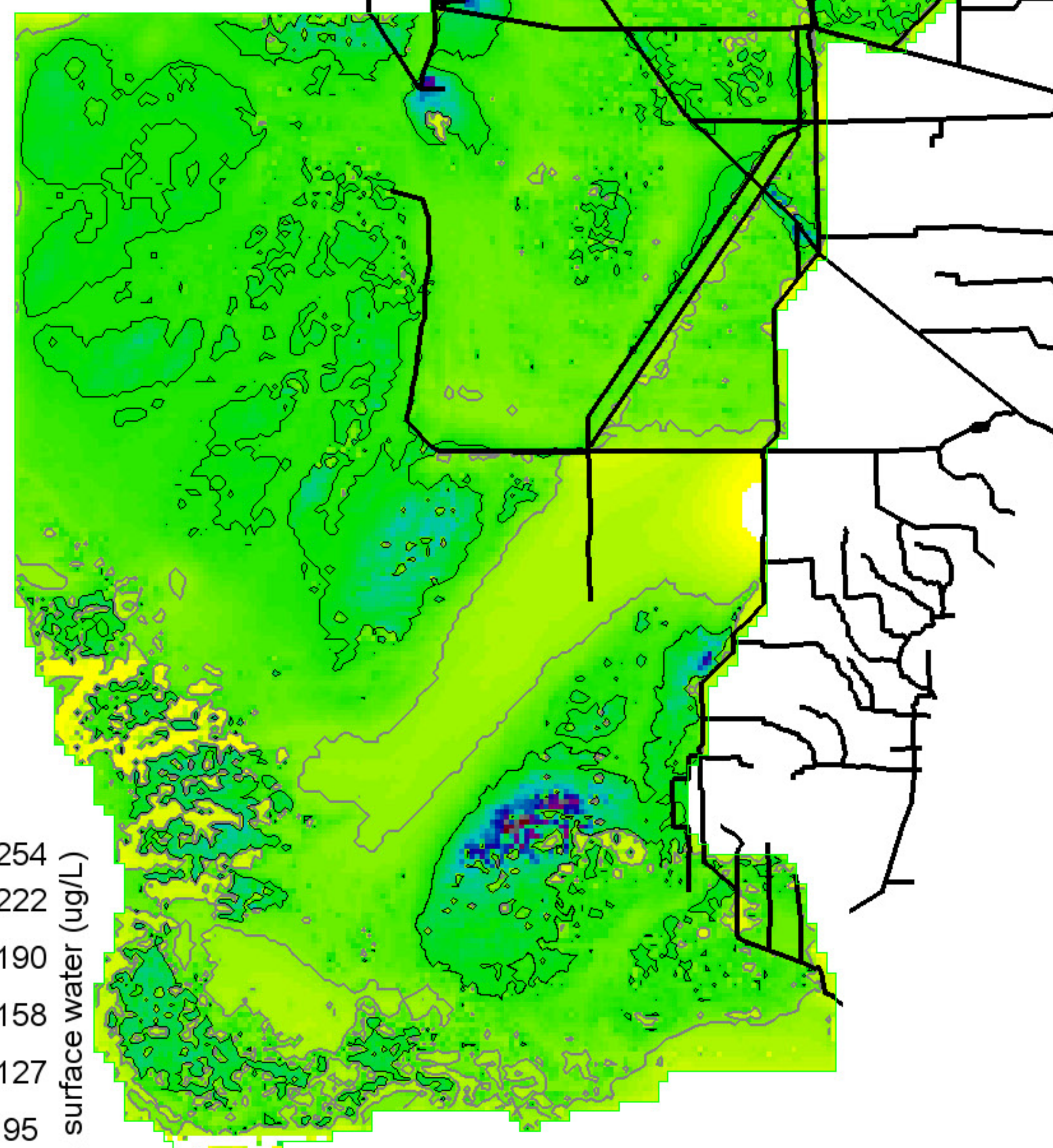
Grey, black isolines at 10, 20 ug/L  
454525 ha of landscape is  $\geq 10$  ug/L  
70075 ha of landscape is  $\geq 20$  ug/L  
1039400 ha in landscape

2050B2.MeanRaw.TPSfWatAvg19890412

Right Map minus Left Map

ASR\_BASE.MeanRaw.TPSfWatAvg19890412





254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
870125 ha of landscape is  $\geq 10$  ug/L  
233900 ha of landscape is  $\geq 20$  ug/L  
1039400 ha in landscape

-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

P conc. surface water (ug/L)

Black isolines at +/- 5 ug/L  
47075 ha of landscape differs by  $\leq -5$  ug/L  
32675 ha of landscape differs by  $\geq 5$  ug/L  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  ug/L

254  
222  
190  
158  
127  
95  
63  
31  
0 = white

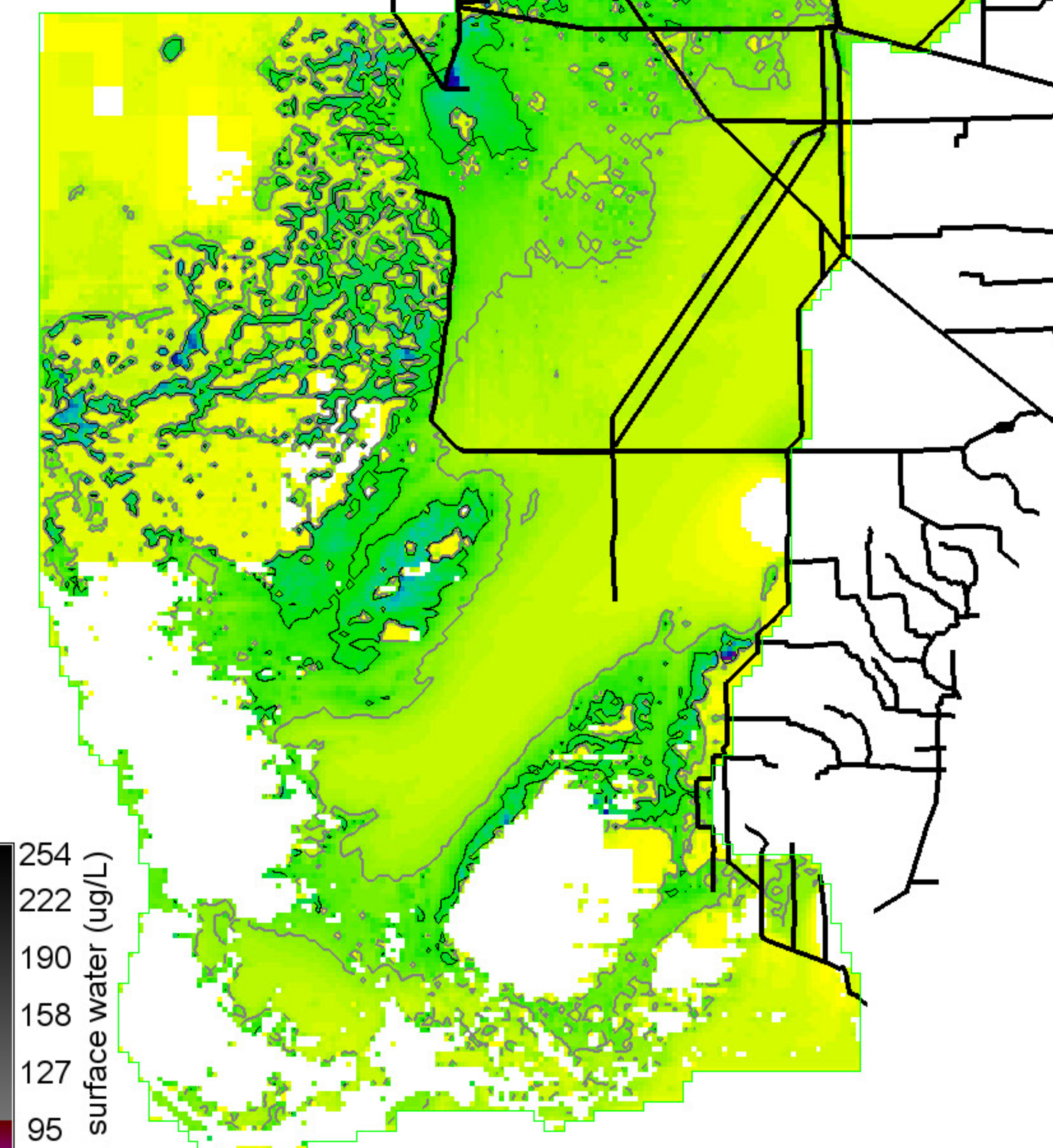
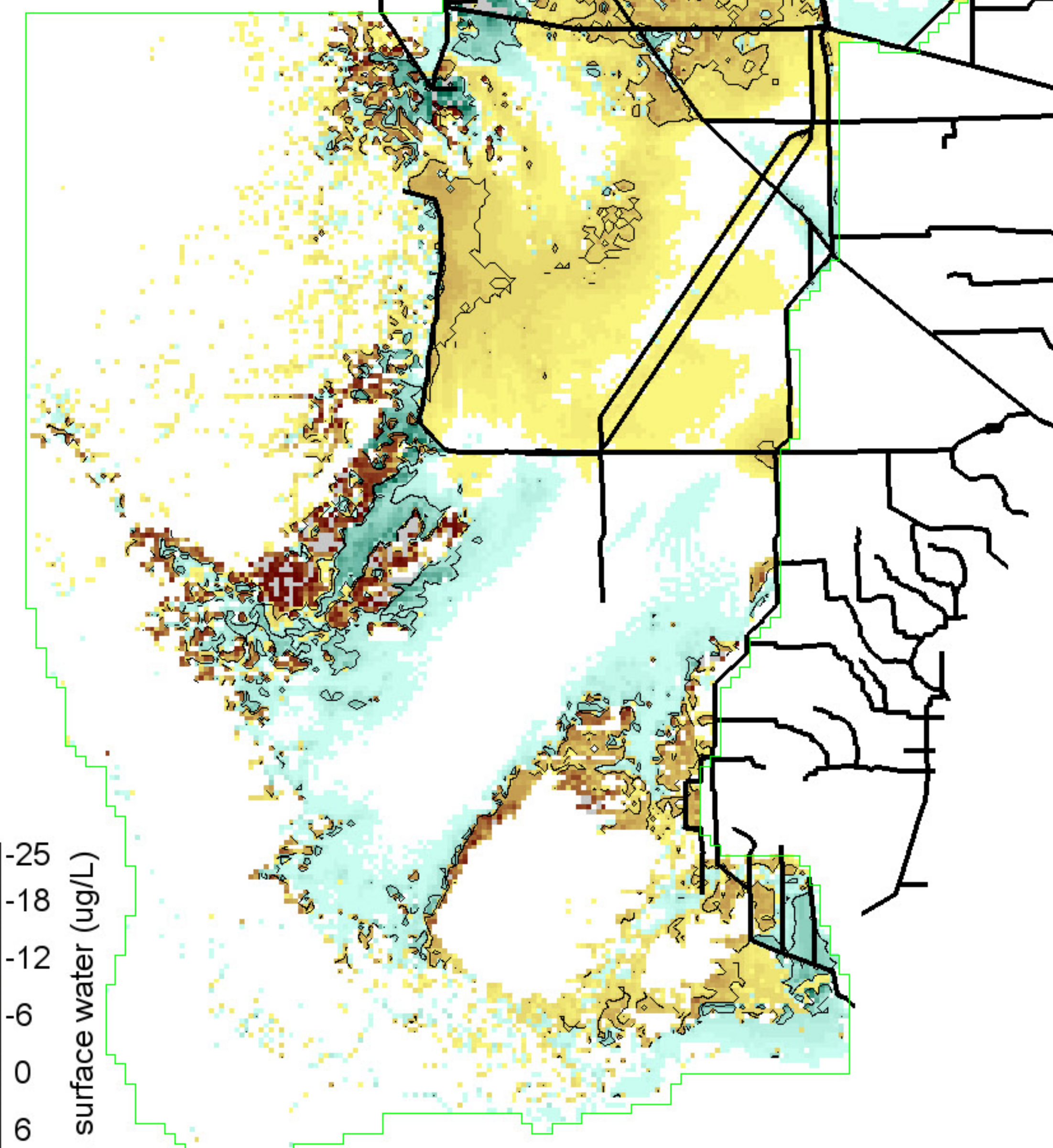
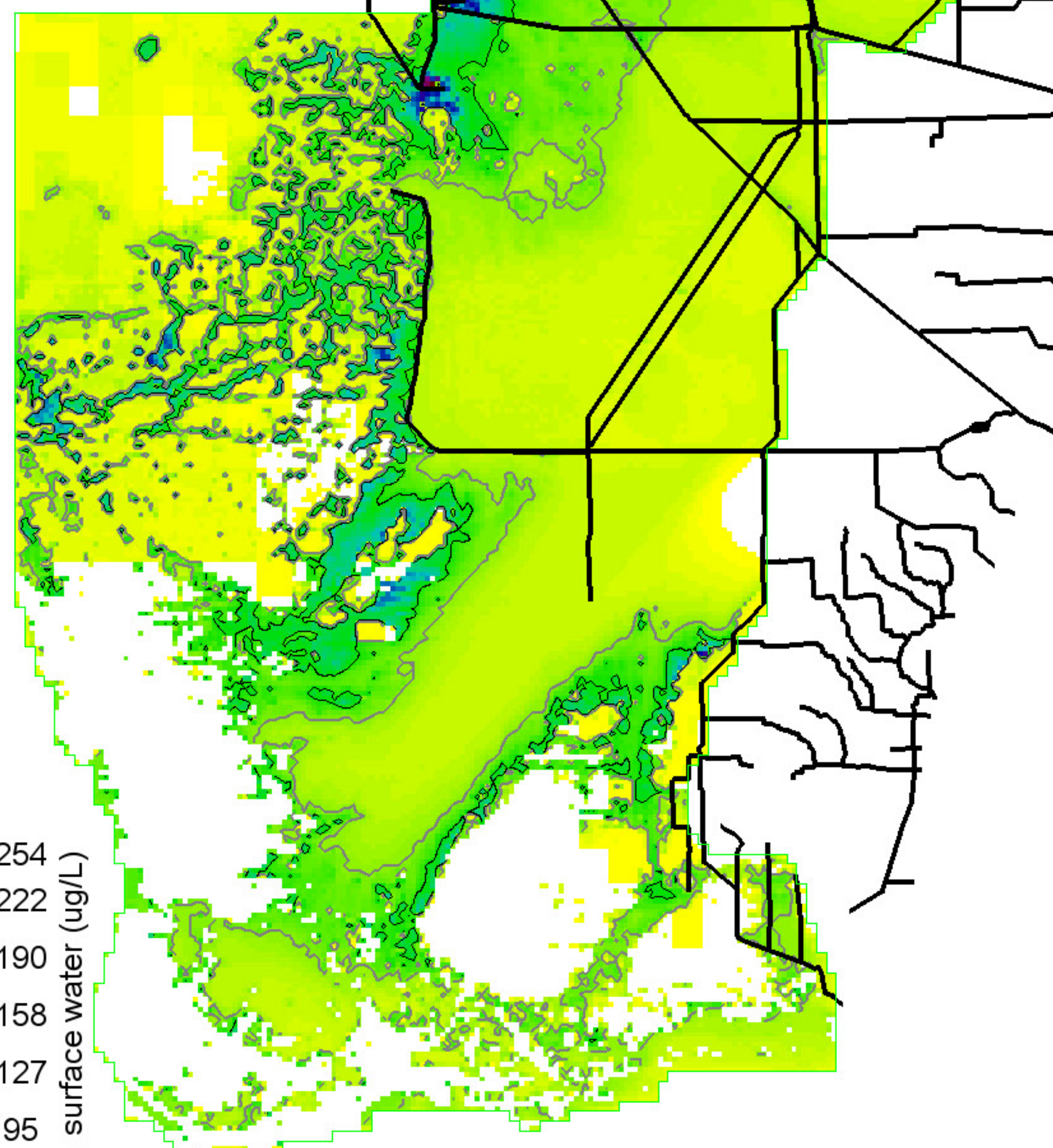
P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
858150 ha of landscape is  $\geq 10$  ug/L  
239350 ha of landscape is  $\geq 20$  ug/L  
1039400 ha in landscape

2050B2.MeanRaw.TPSfWatAvg19940416

Right Map minus Left Map

ASR\_BASE.MeanRaw.TPSfWatAvg19940416



254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
298575 ha of landscape is  $\geq 10$  ug/L  
86450 ha of landscape is  $\geq 20$  ug/L  
1039400 ha in landscape

-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

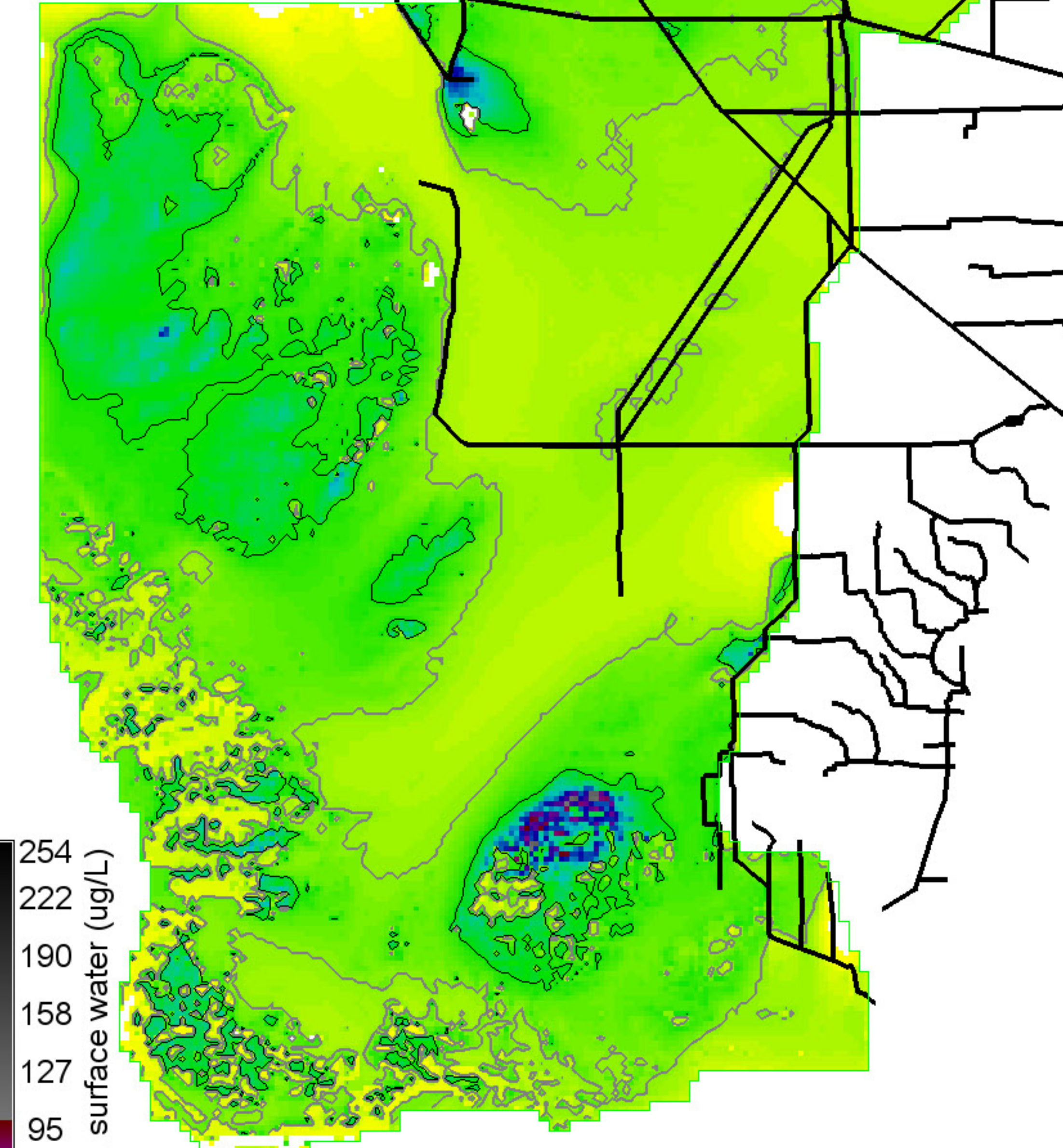
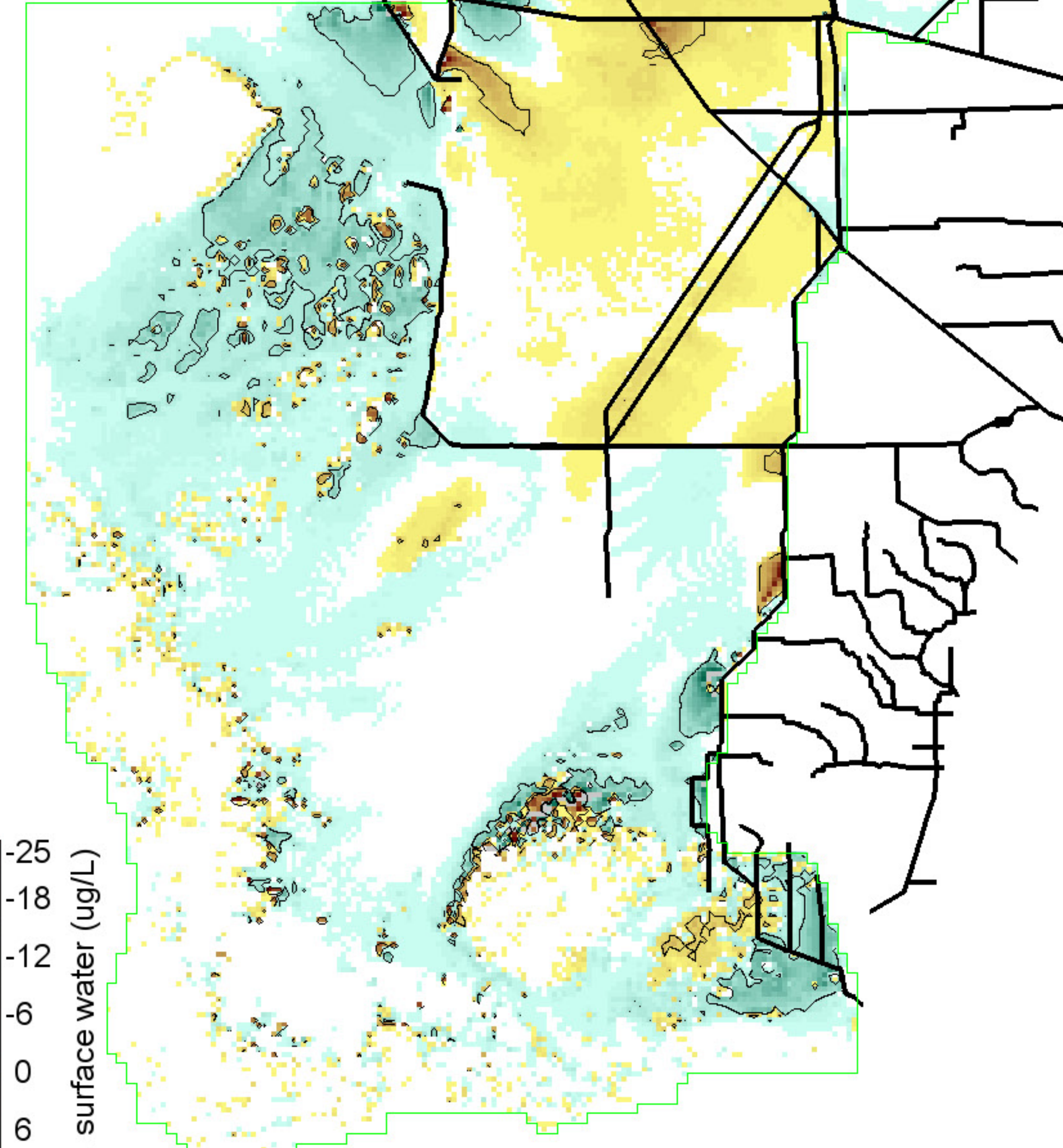
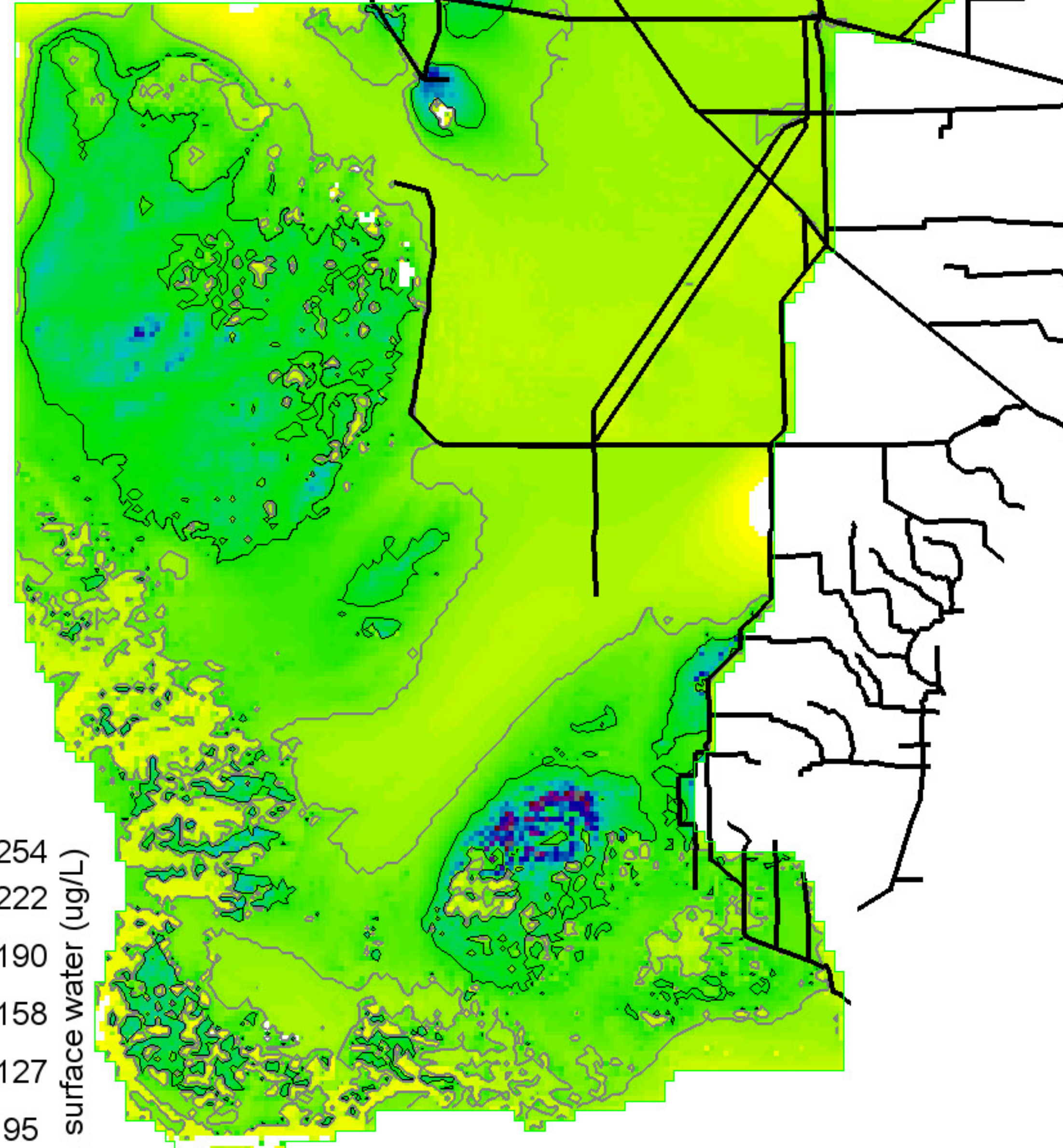
P conc. surface water (ug/L)

Black isolines at +/- 5 ug/L  
50225 ha of landscape differs by  $\leq -5$  ug/L  
128925 ha of landscape differs by  $\geq 5$  ug/L  
1039400 ha in landscape  
0 = white; Diffs in grey  $> | -25, 25 |$  ug/L

254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
359250 ha of landscape is  $\geq 10$  ug/L  
113325 ha of landscape is  $\geq 20$  ug/L  
1039400 ha in landscape



254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

Grey, black isolines at 10, 20 ug/L  
 527450 ha of landscape is  $\geq 10$  ug/L  
 184000 ha of landscape is  $\geq 20$  ug/L  
 1039400 ha in landscape

-25  
-18  
-12  
-6  
0  
6  
12  
18  
25

P conc. surface water (ug/L)

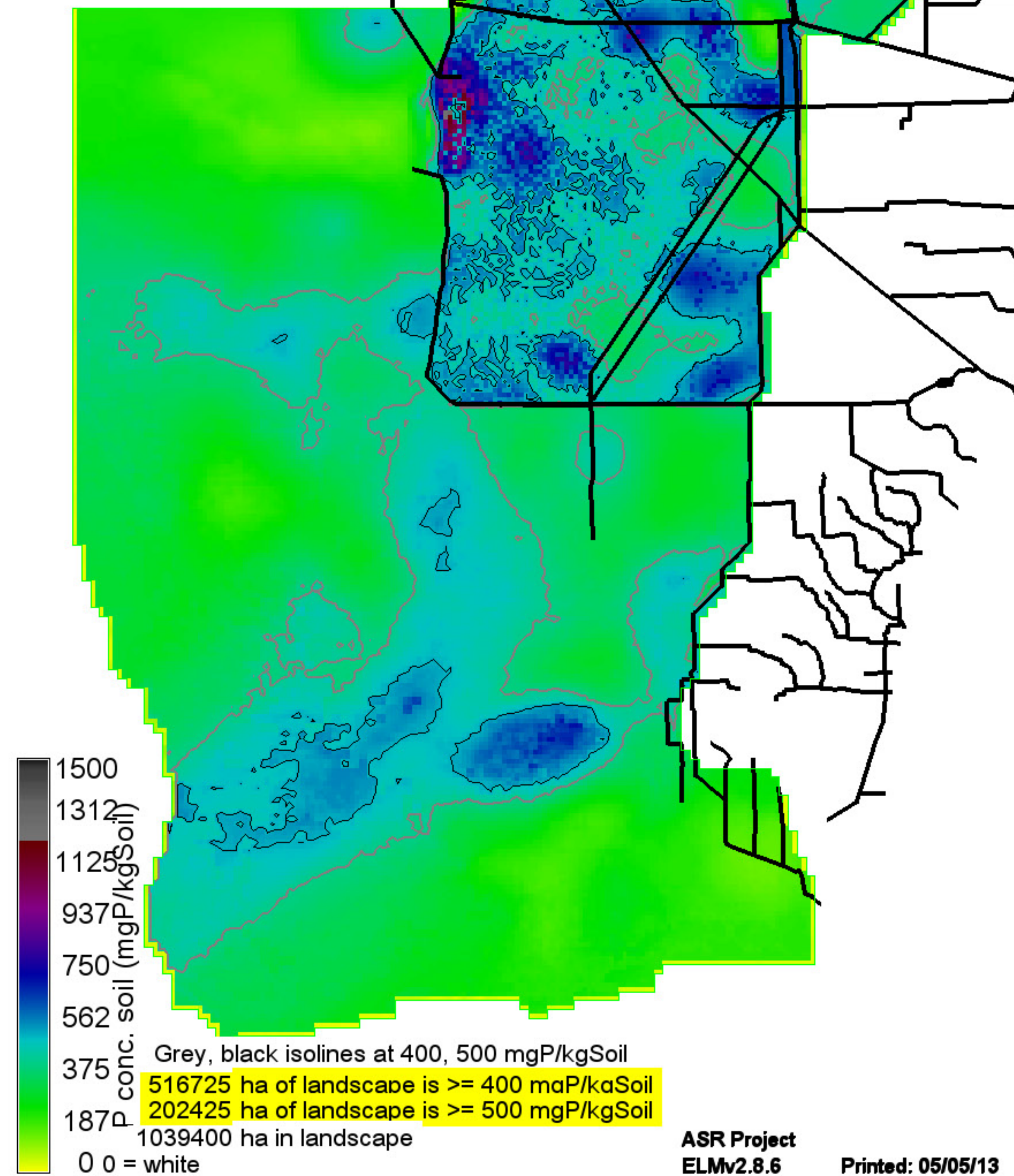
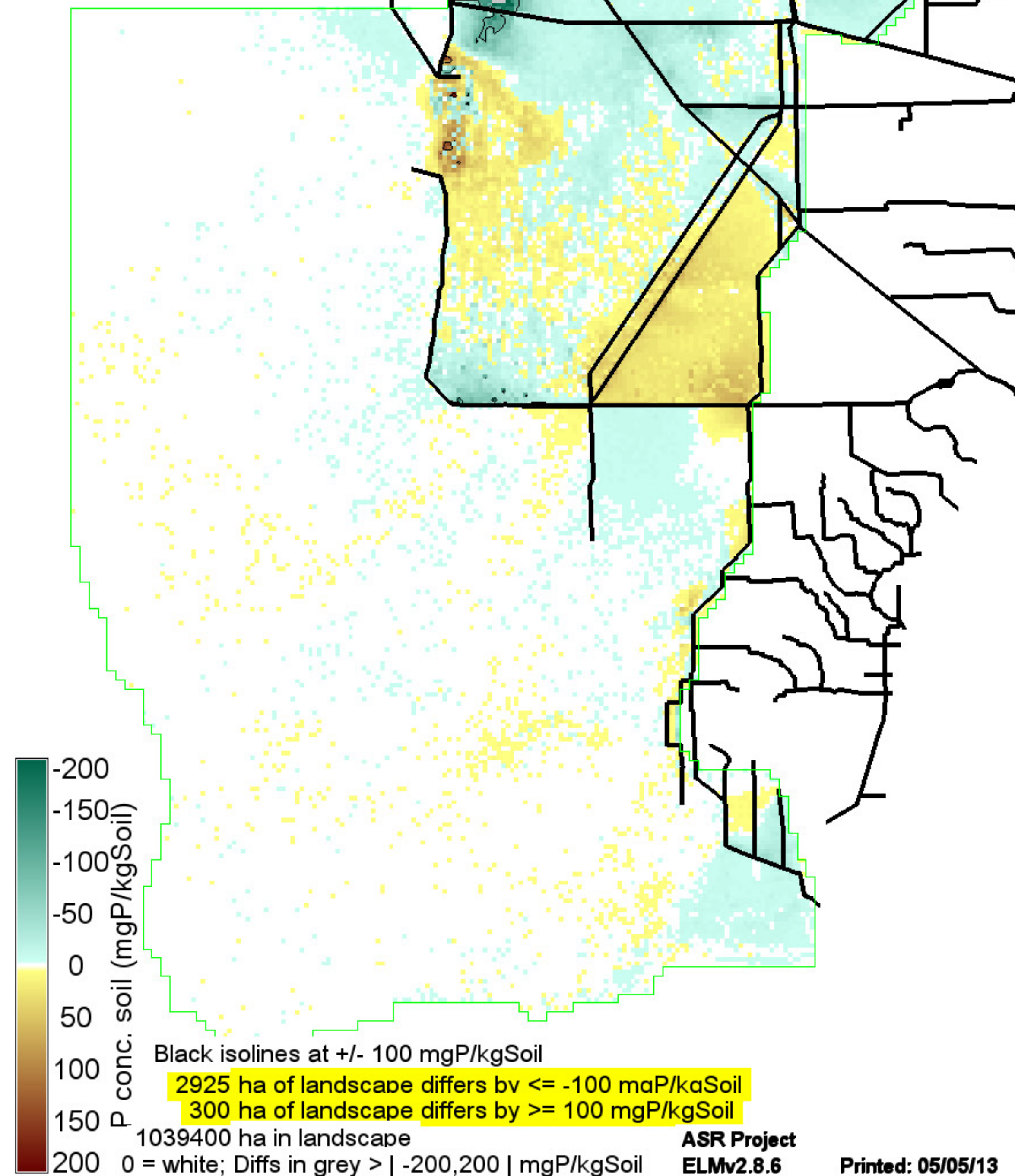
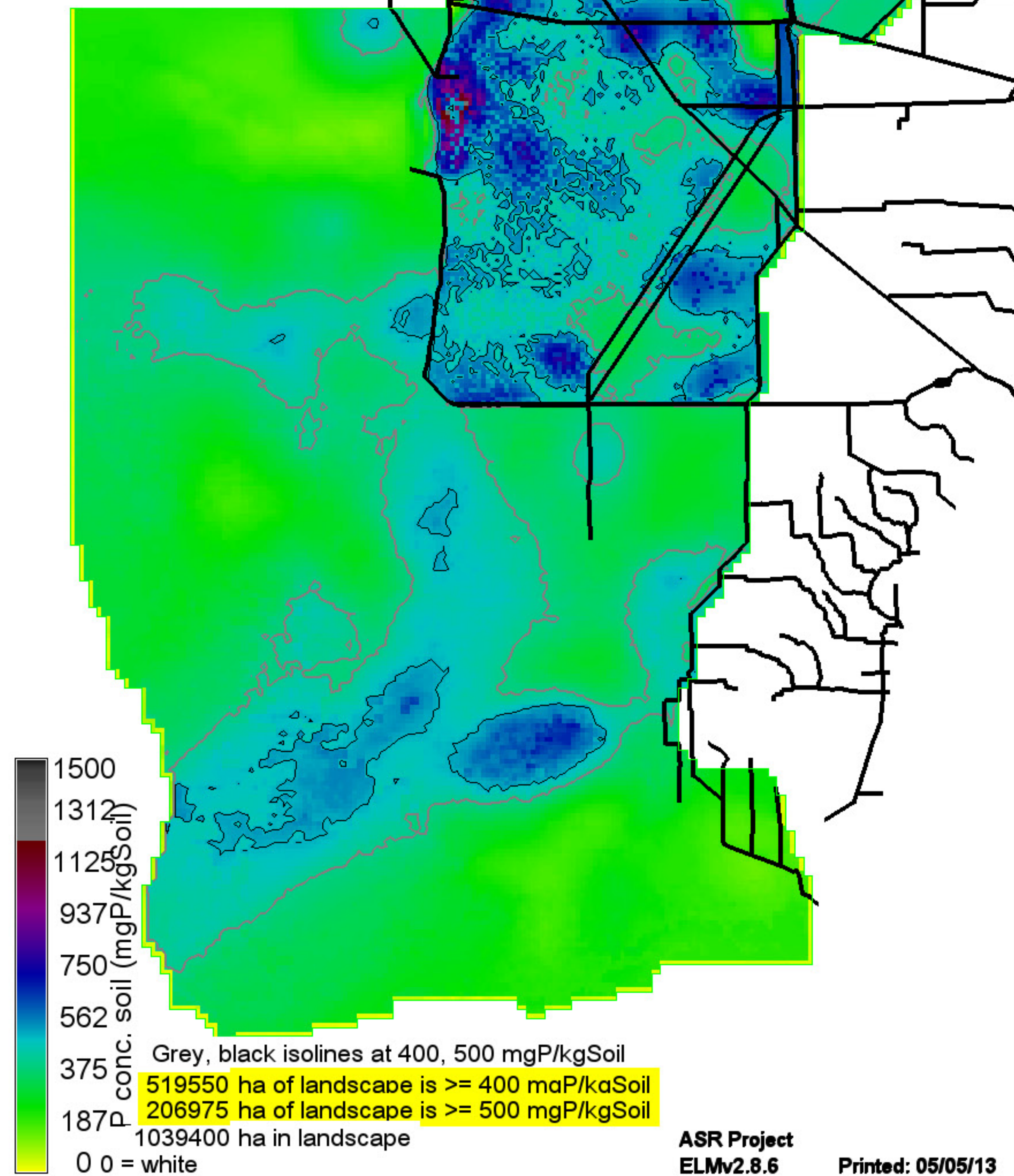
Black isolines at +/- 5 ug/L  
 65375 ha of landscape differs by  $\leq -5$  ug/L  
 34075 ha of landscape differs by  $\geq 5$  ug/L  
 1039400 ha in landscape  
 0 = white; Diffs in grey  $> | -25, 25 |$  ug/L

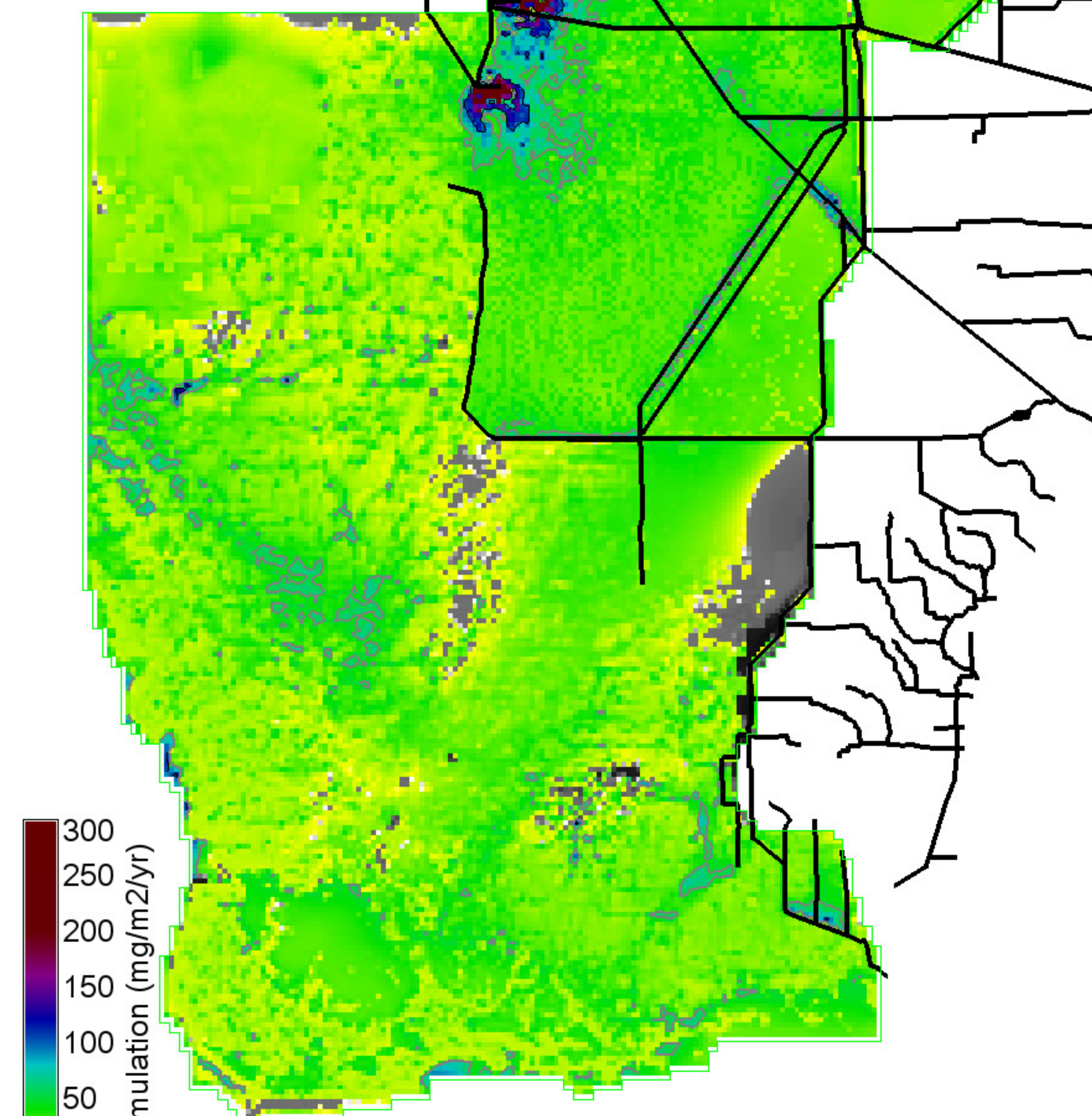
254  
222  
190  
158  
127  
95  
63  
31  
0 = white

P conc. surface water (ug/L)

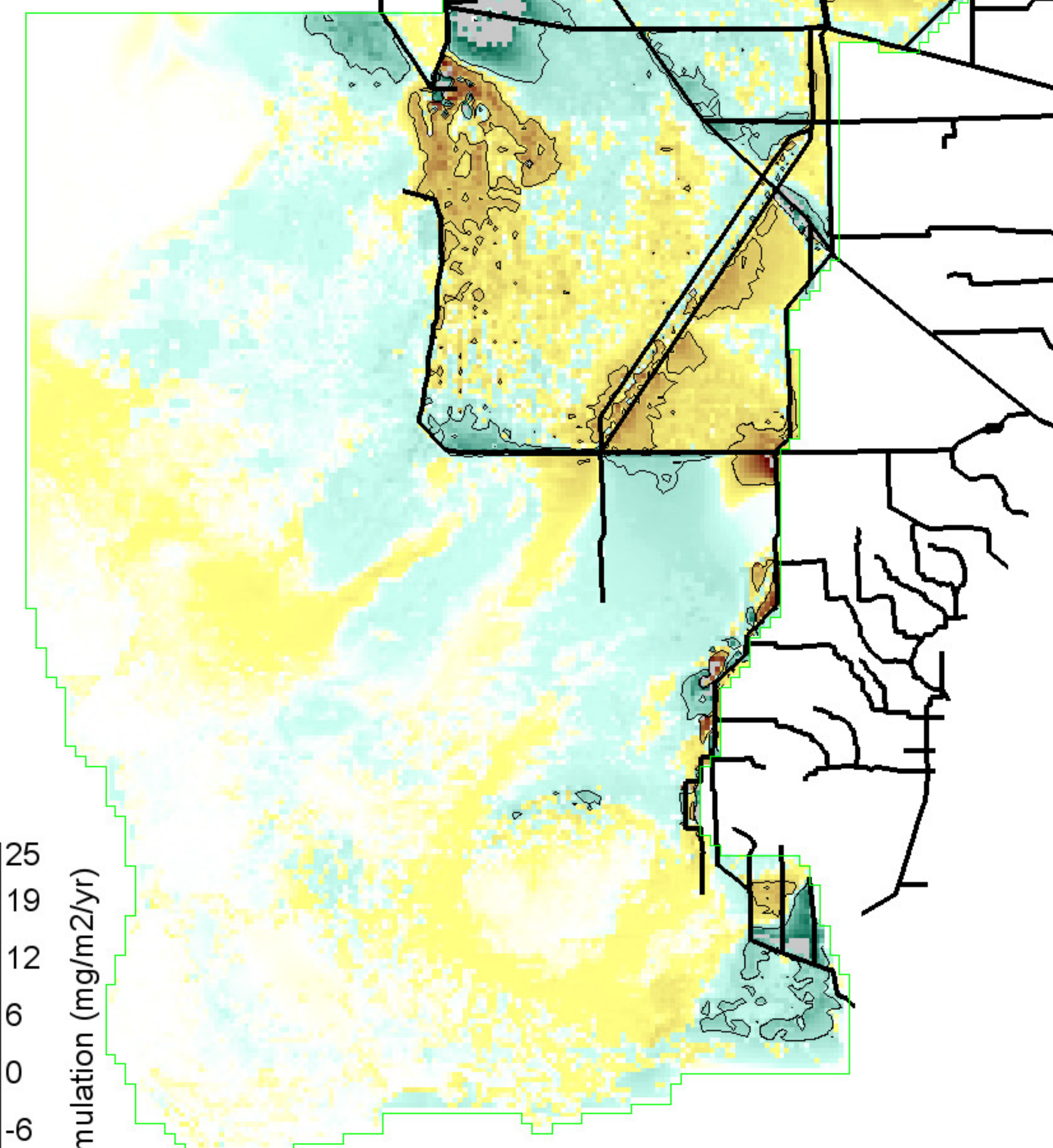
Grey, black isolines at 10, 20 ug/L  
 592050 ha of landscape is  $\geq 10$  ug/L  
 143975 ha of landscape is  $\geq 20$  ug/L  
 1039400 ha in landscape



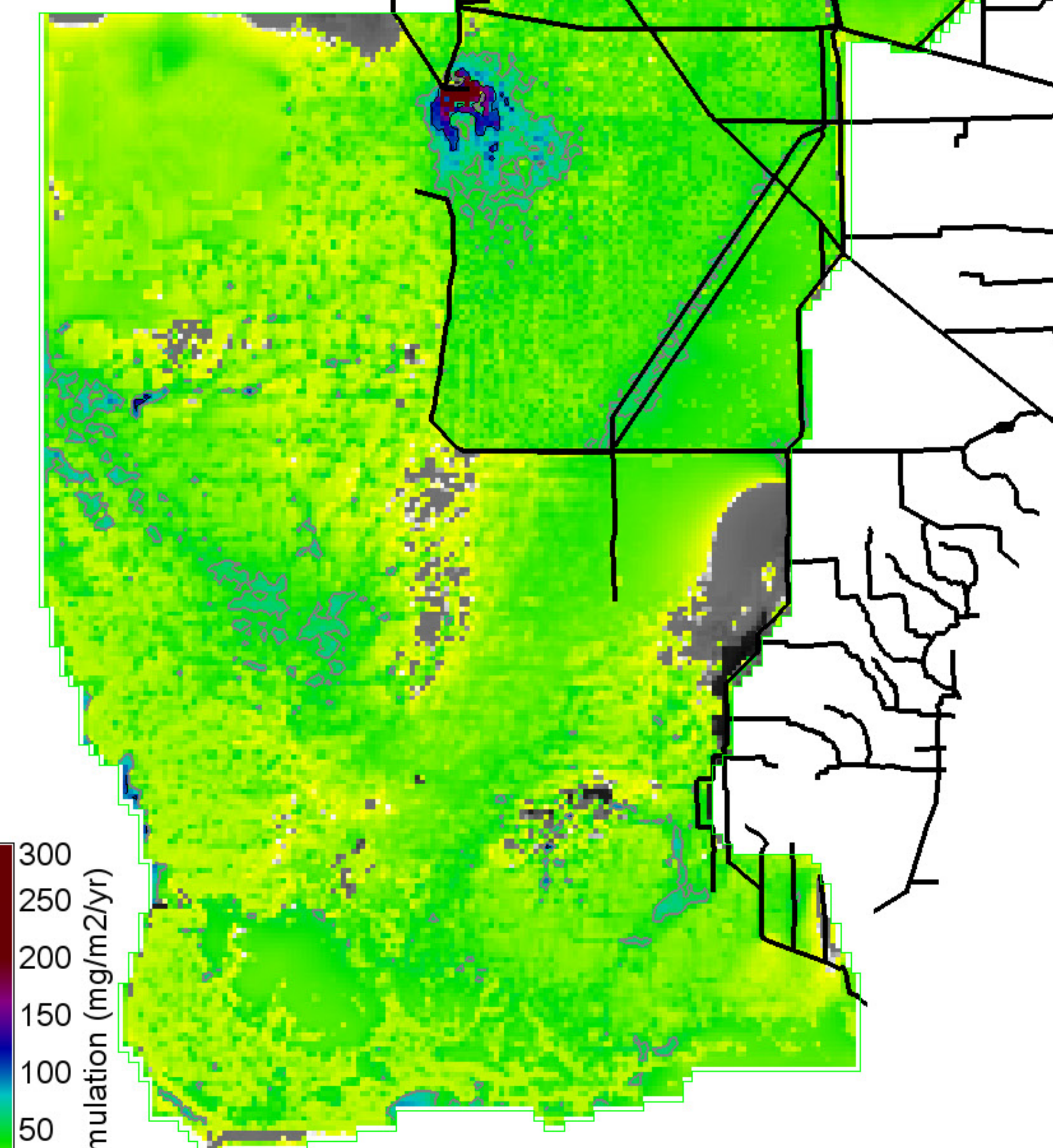




Grey, black isolines at 50, 100 mg/m2/yr  
 48300 ha of landscape is  $\geq 50$  mg/m2/yr  
 6600 ha of landscape is  $\geq 100$  mg/m2/yr  
 1039400 ha in landscape



Black isolines at +/- 10 mg/m2/yr  
 48100 ha of landscape differs by  $\leq -10$  mg/m2/yr  
 36250 ha of landscape differs by  $\geq 10$  mg/m2/yr  
 1039400 ha in landscape



Grey, black isolines at 50, 100 mg/m2/yr  
 42575 ha of landscape is  $\geq 50$  mg/m2/yr  
 4000 ha of landscape is  $\geq 100$  mg/m2/yr  
 1039400 ha in landscape