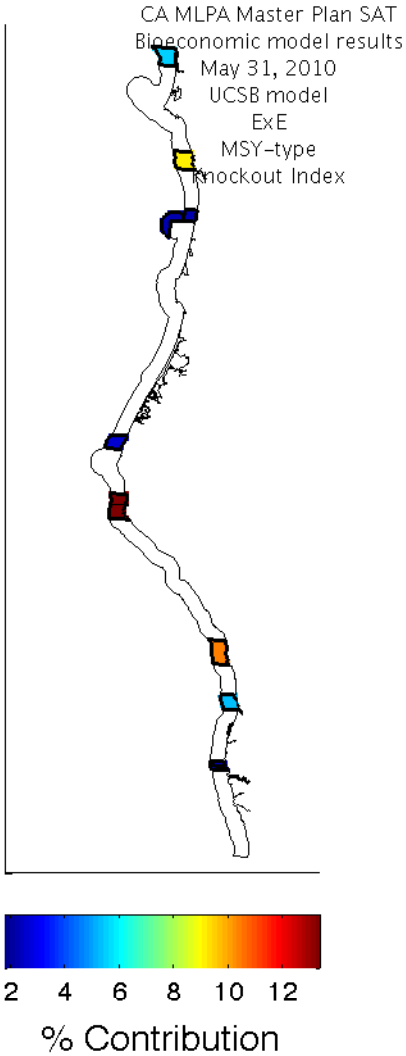
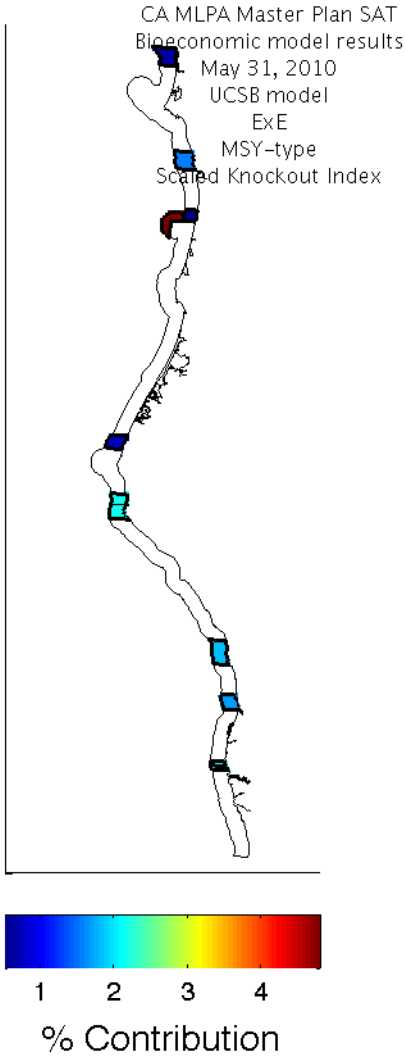
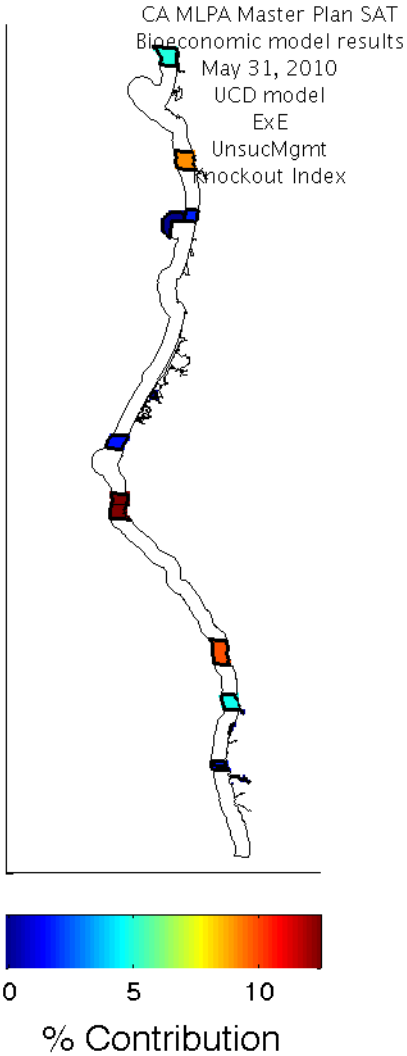
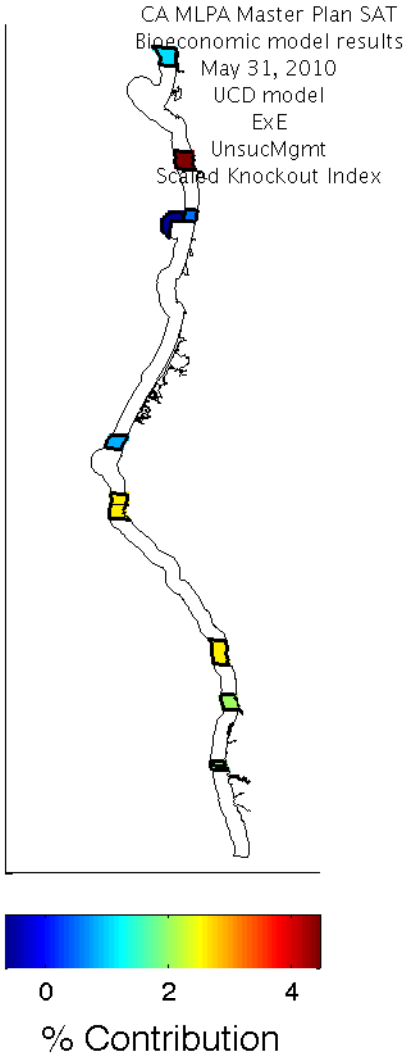
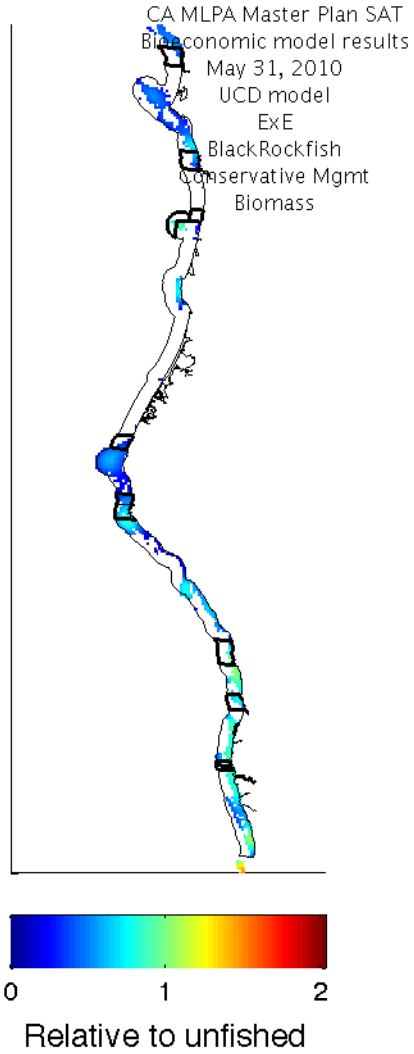
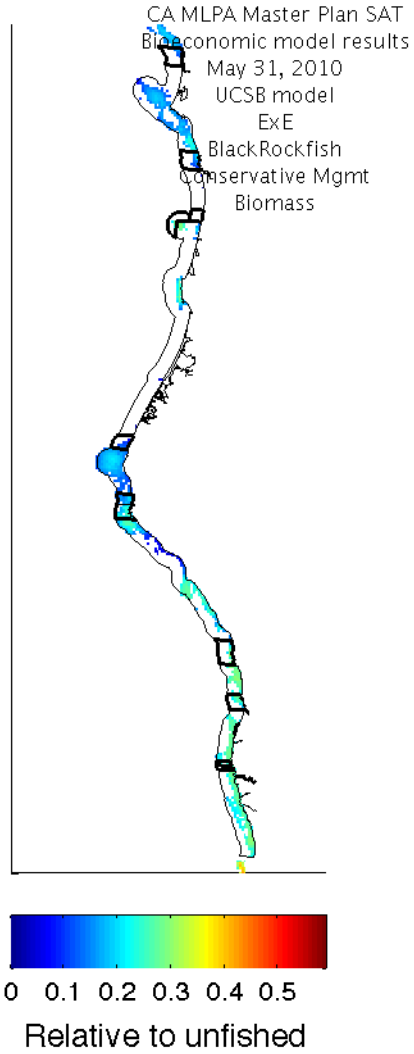

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
MSY-type
Knockout Index
2 4 6 8 10 12
% Contribution

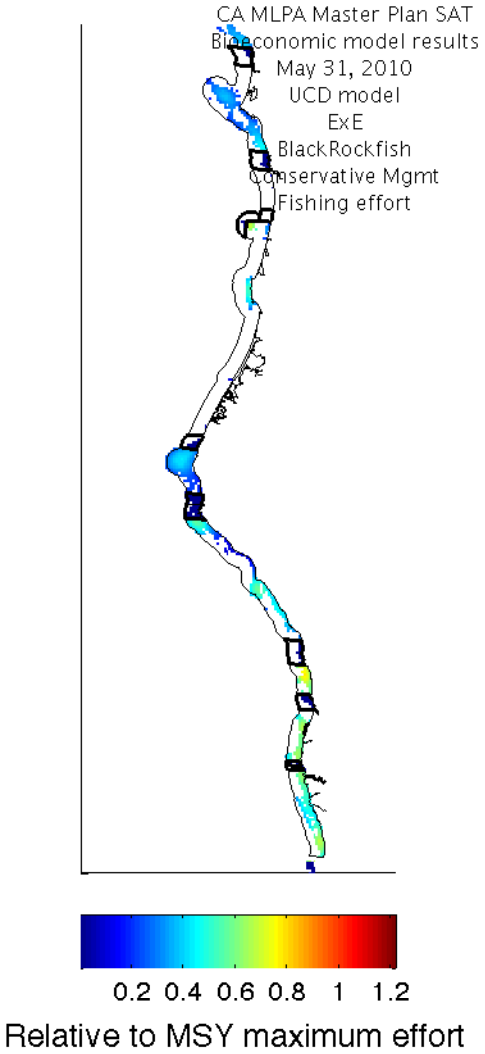

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
MSY-type
Scaled Knockout Index
1 2 3 4
% Contribution

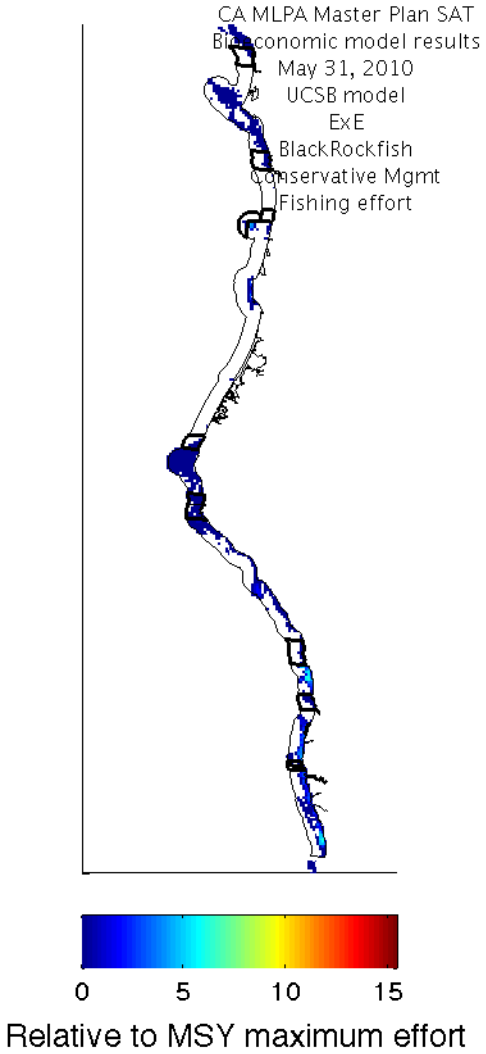

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
UnsucMgmt
Knockout Index
0
5
10
% Contribution

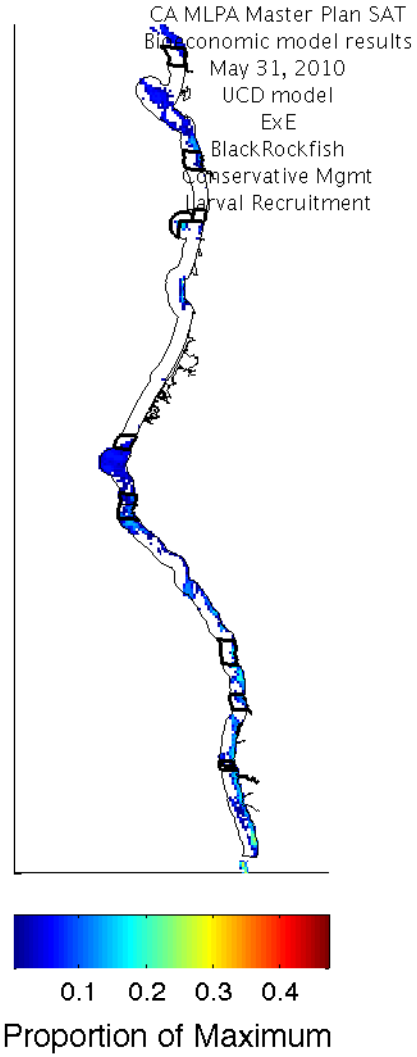

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
UnsucMgmt
Scaled Knockout Index
0
2
4
% Contribution

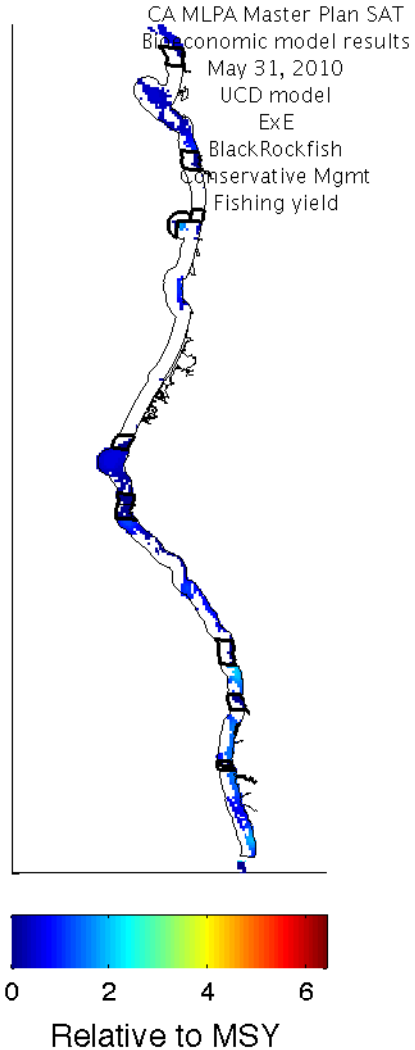

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
Conservative Mgmt
Biomass
0
1
2
Relative to unfished

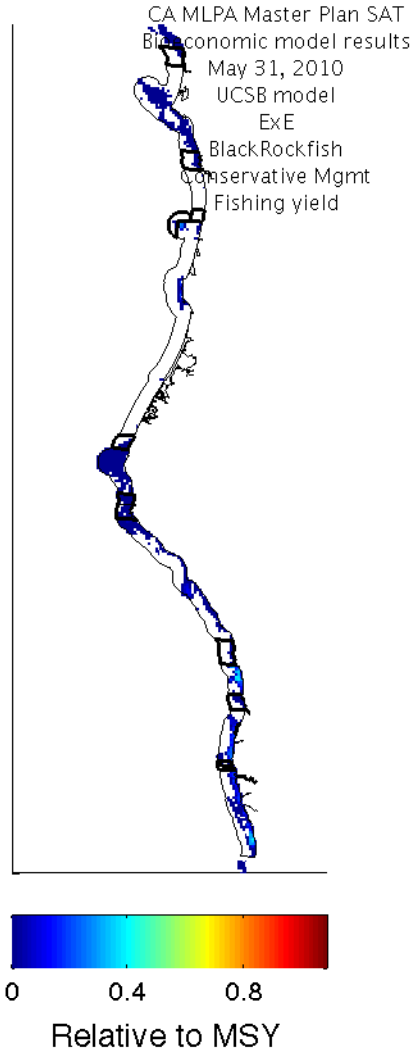

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
Conservative Mgmt
Biomass
0
0.1
0.2
0.3
0.4
0.5
Relative to unfished

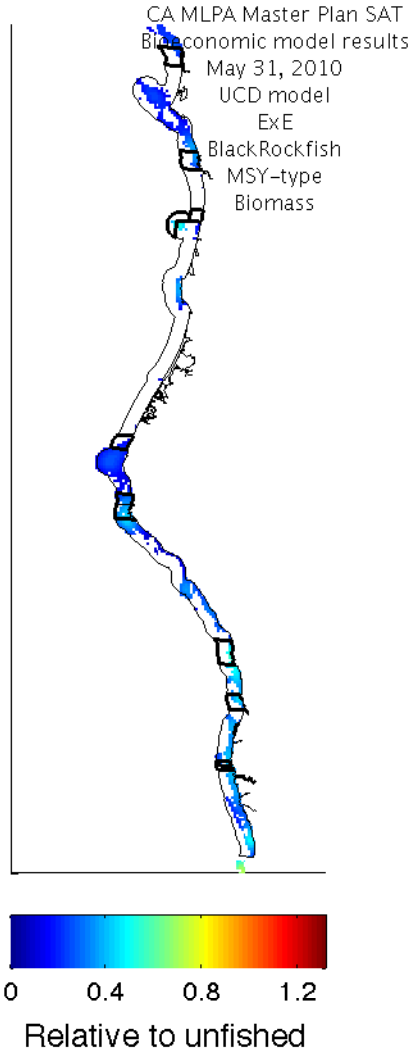

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
Conservative Mgmt
Fishing effort
0.2 0.4 0.6 0.8 1 1.2
Relative to MSY maximum effort

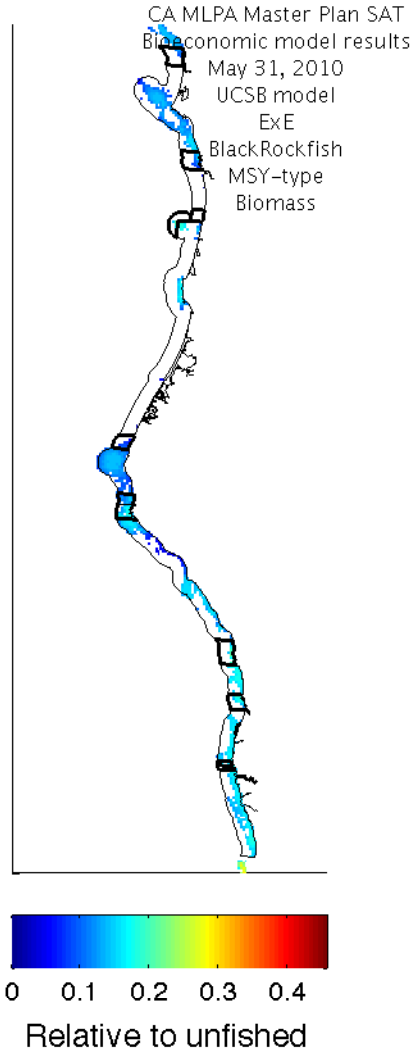

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
Conservative Mgmt
Fishing effort
0 5 10 15
Relative to MSY maximum effort

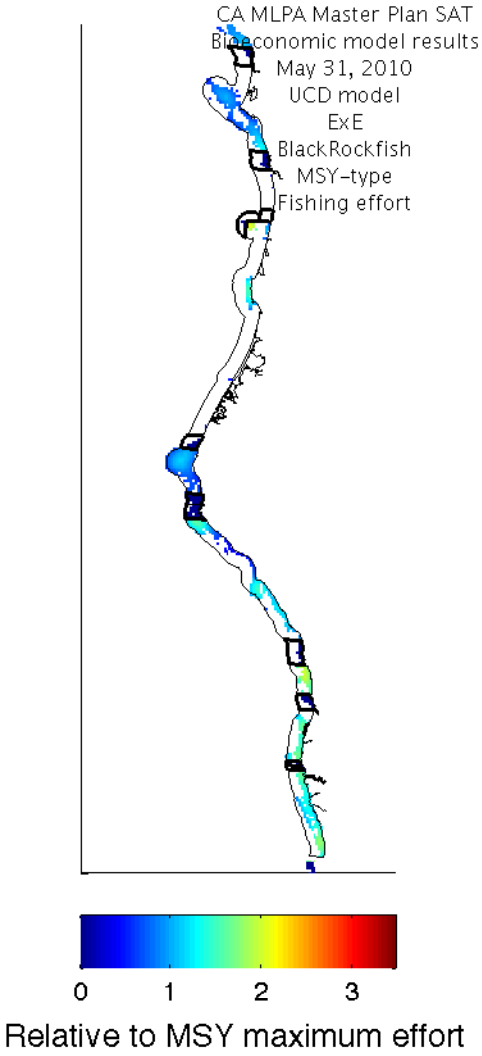

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
0.4
Proportion of Maximum

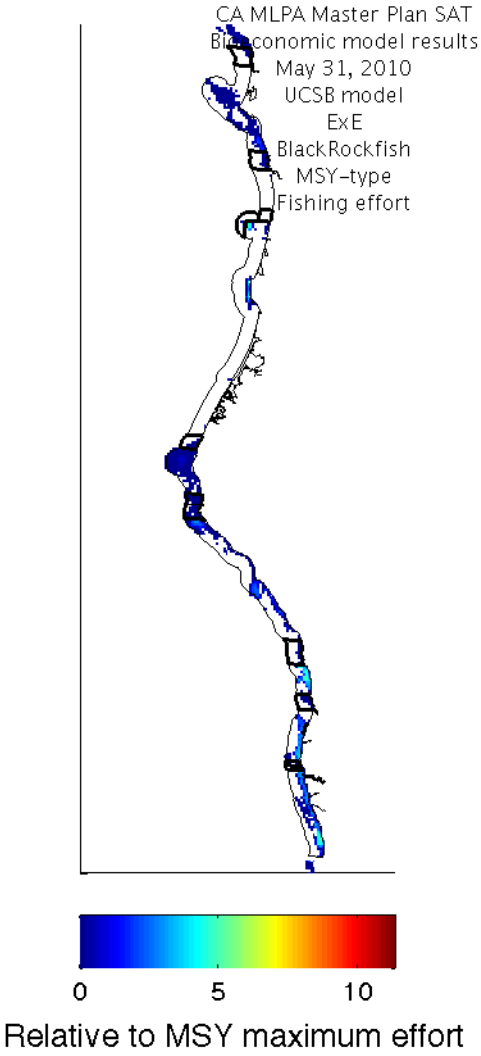

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
Conservative Mgmt
Fishing yield
0
2
4
6
Relative to MSY

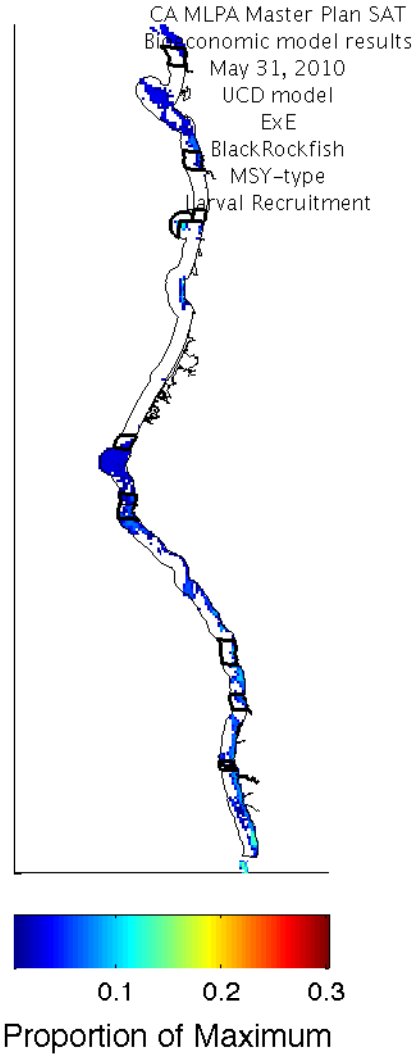

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY

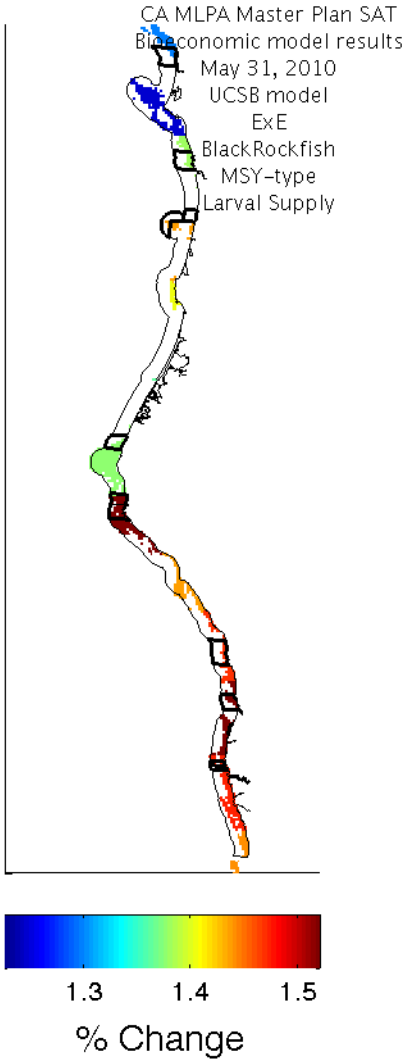

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
MSY-type
Biomass
0
0.4
0.8
1.2
Relative to unfished

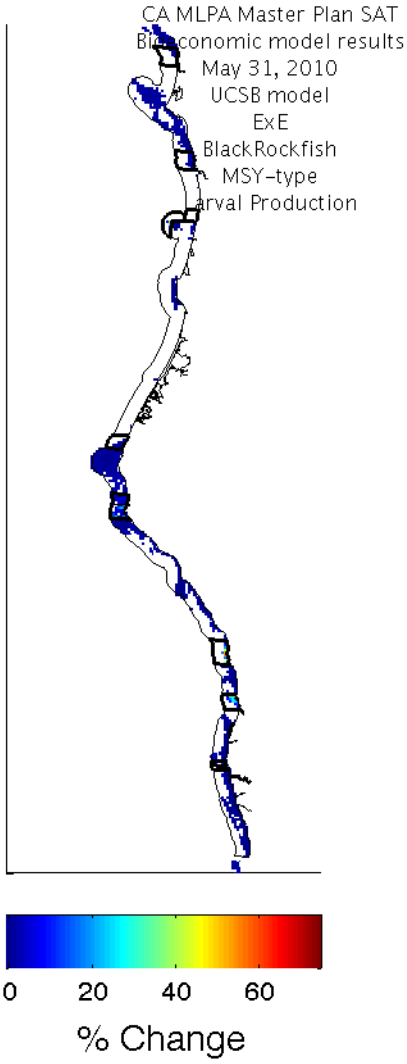

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
MSY-type
Biomass
0
0.1
0.2
0.3
0.4
Relative to unfished

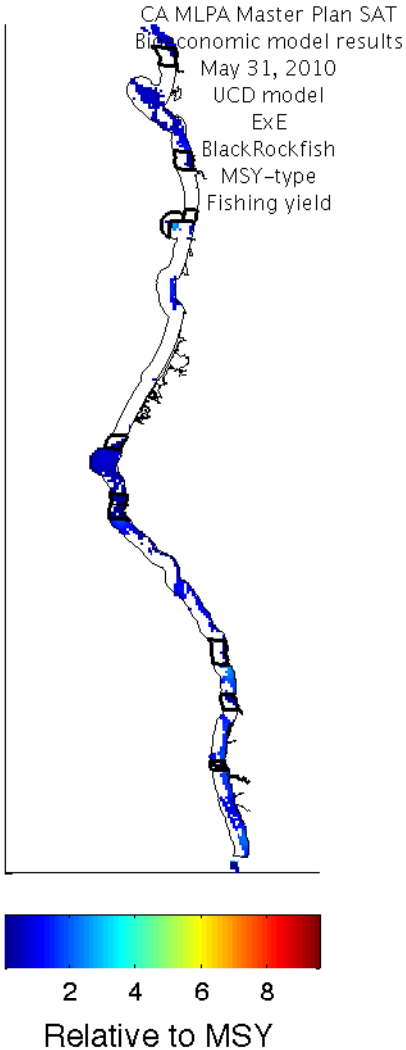

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
MSY-type
Fishing effort
0
1
2
3
Relative to MSY maximum effort

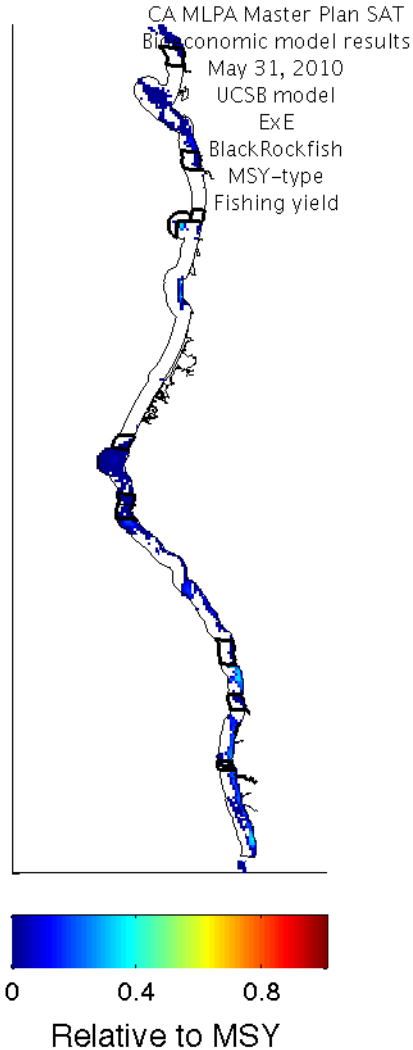

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
MSY-type
Fishing effort
0
5
10
Relative to MSY maximum effort

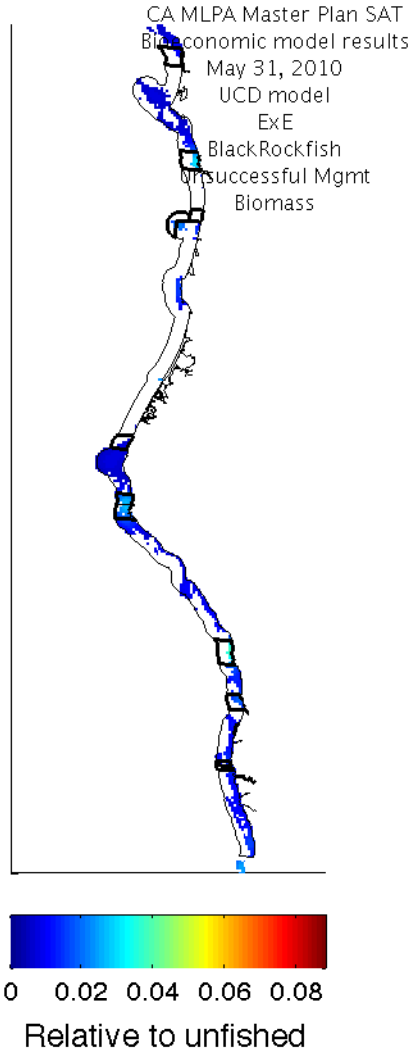

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
MSY-type
Larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

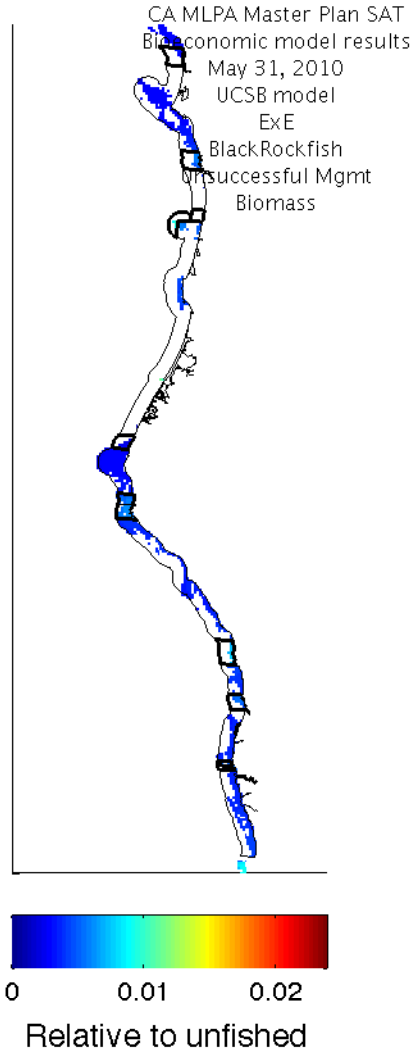

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
MSY-type
Larval Supply
1.3
1.4
1.5
% Change

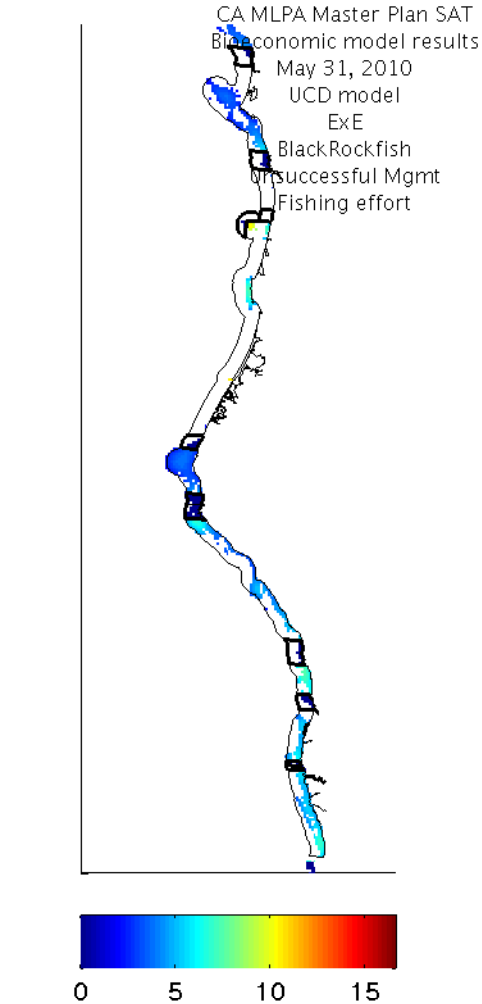

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
MSY-type
Larval Production
0
20
40
60
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
MSY-type
Fishing yield
2
4
6
8
Relative to MSY

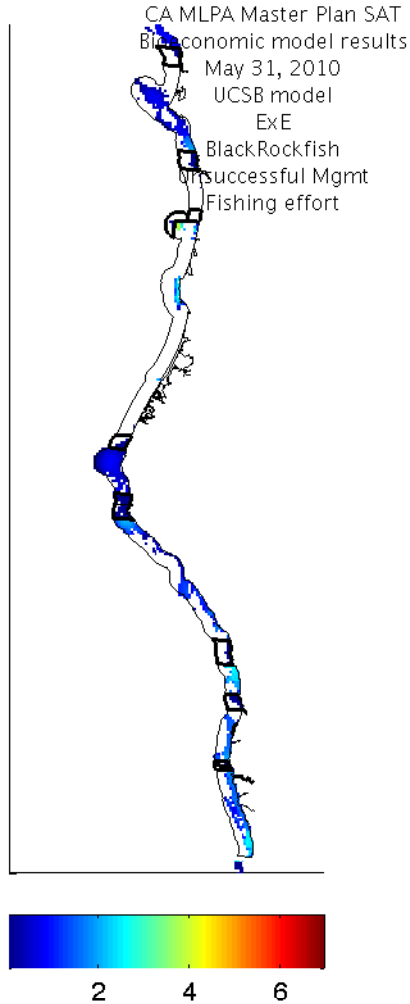

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
Unsuccessful Mgmt
Biomass
0
0.02
0.04
0.06
0.08
Relative to unfished

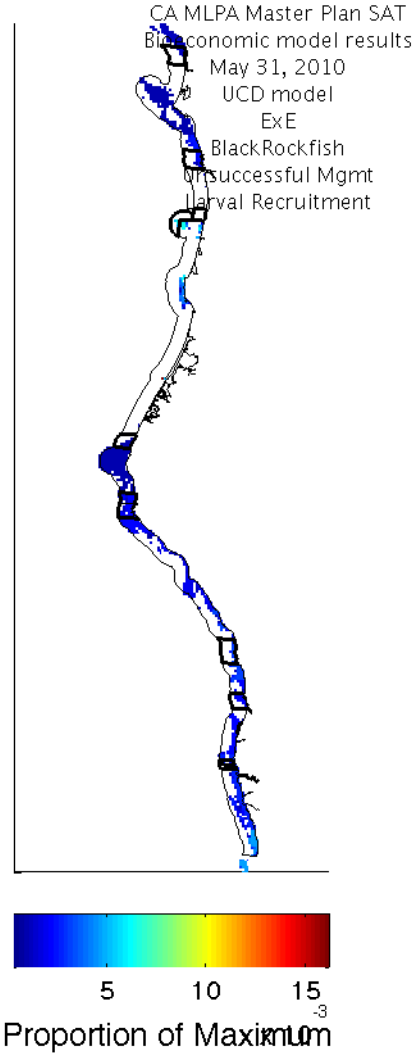

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
Unsuccessful Mgmt
Biomass
0
0.01
0.02
Relative to unfished

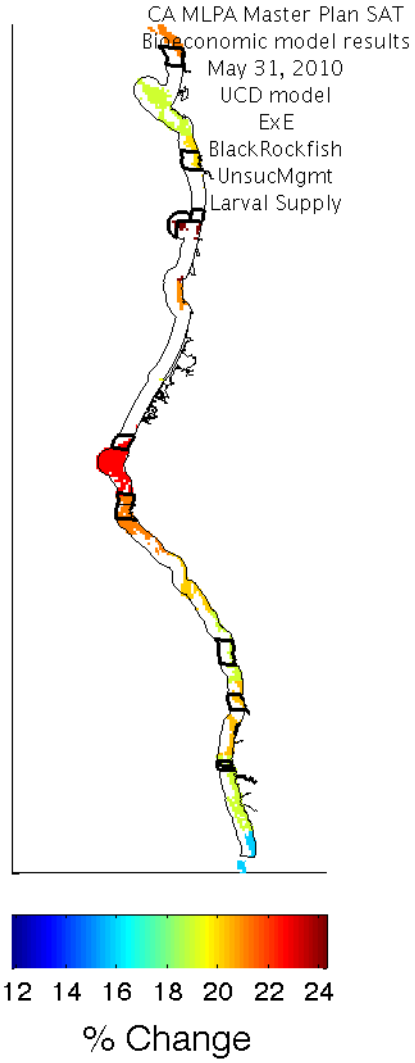


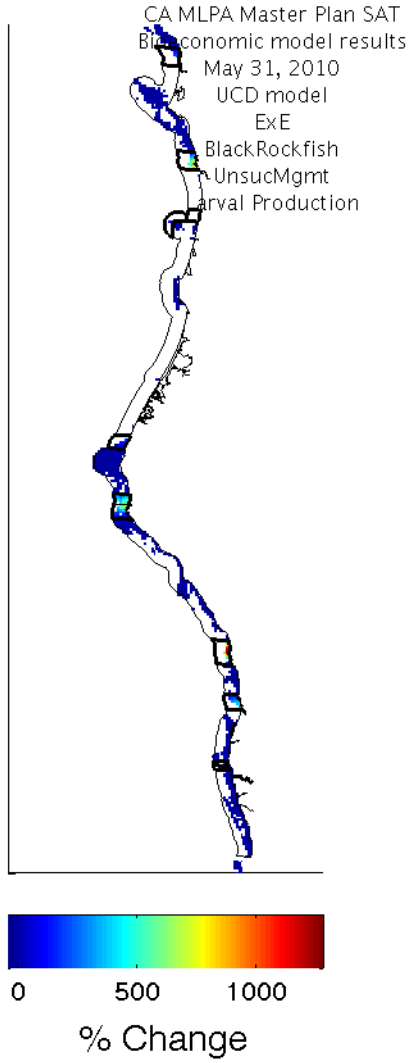
Relative to MSY maximum effort

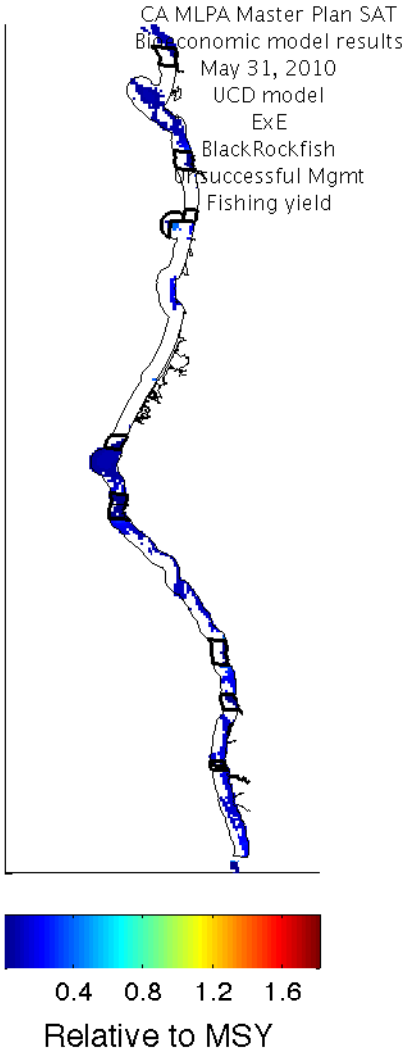


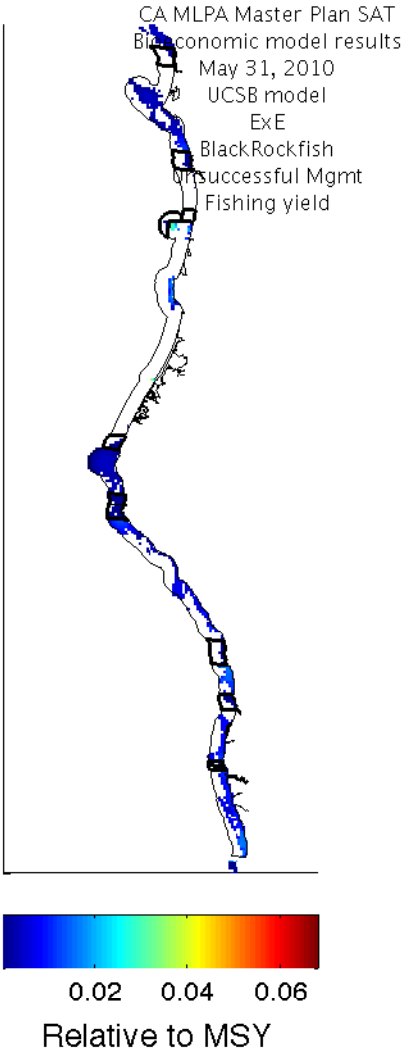
Relative to MSY maximum effort

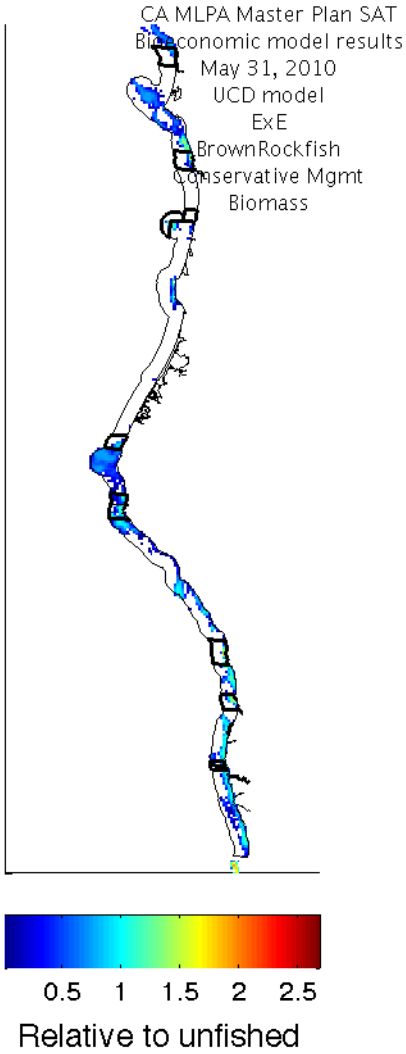

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
Unsuccessful Mgmt
Larval Recruitment
5
10
15
x10^-3
Proportion of Maximum

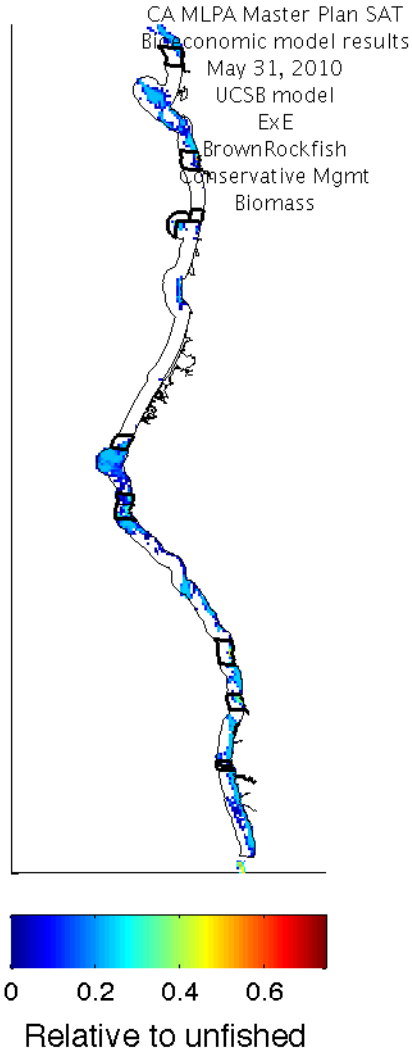

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
UnsucMgmt
Larval Supply
12 14 16 18 20 22 24
% Change

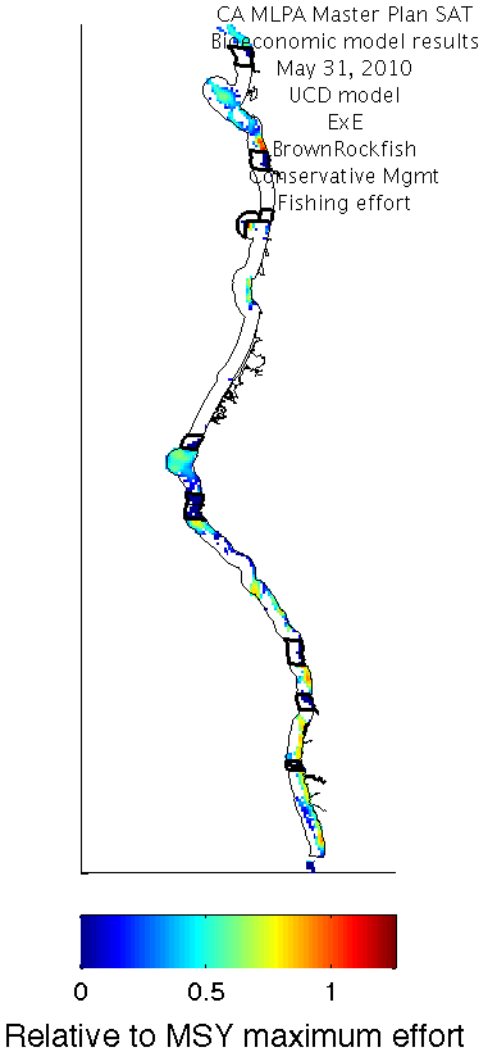

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
UnsucMgmt
arval Production
0 500 1000
% Change

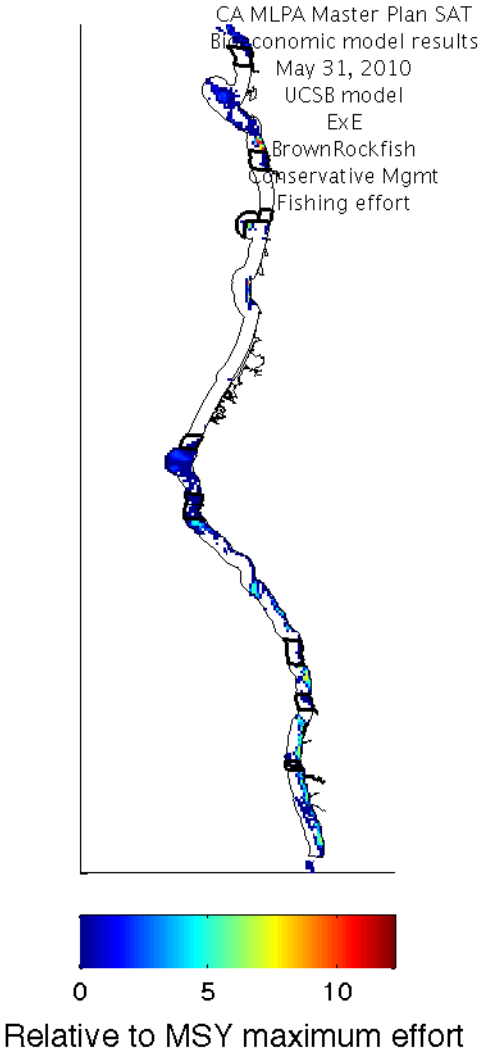

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0.4
0.8
1.2
1.6
Relative to MSY

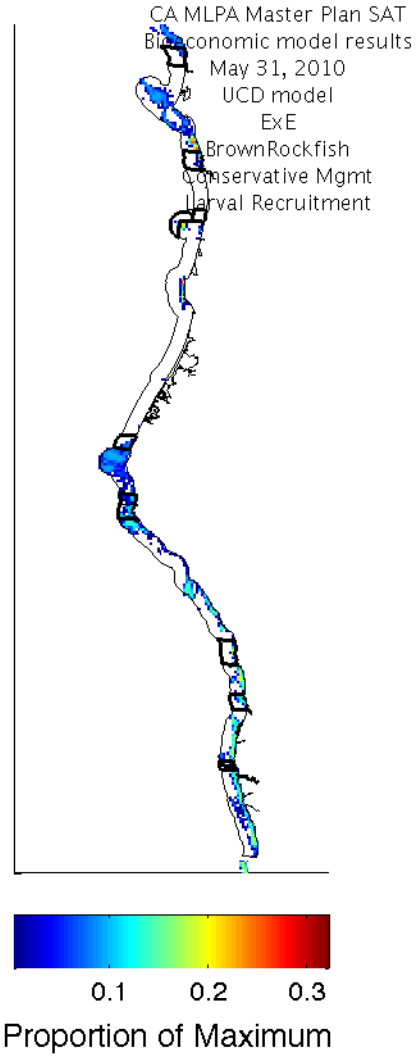

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0.02
0.04
0.06
Relative to MSY

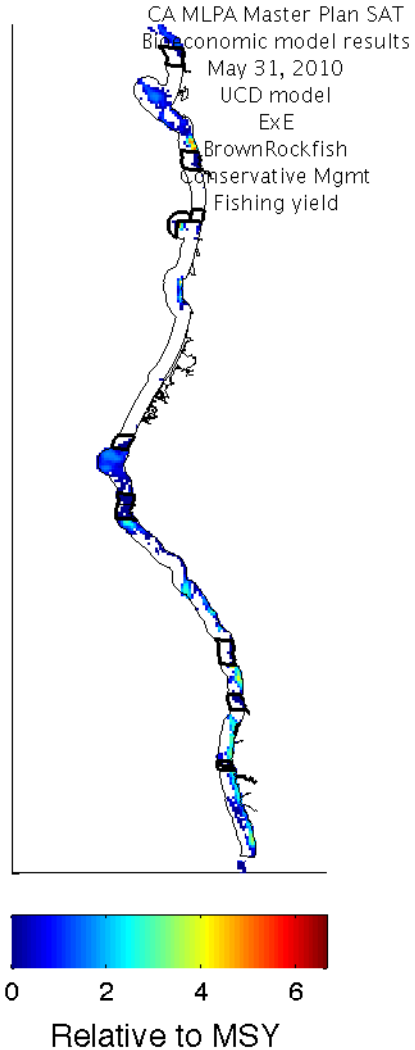

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Conservative Mgmt
Biomass
0.5
1
1.5
2
2.5
Relative to unfished

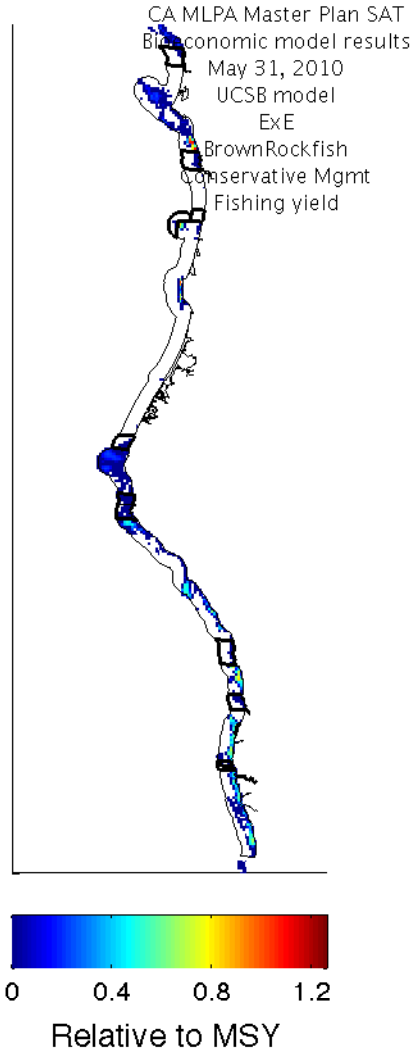

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
Relative to unfished

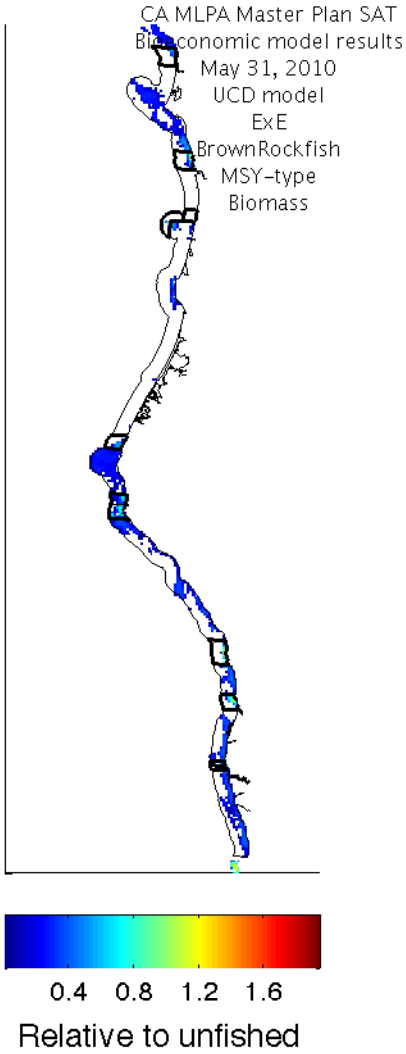

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Conservative Mgmt
Fishing effort
0
0.5
1
Relative to MSY maximum effort

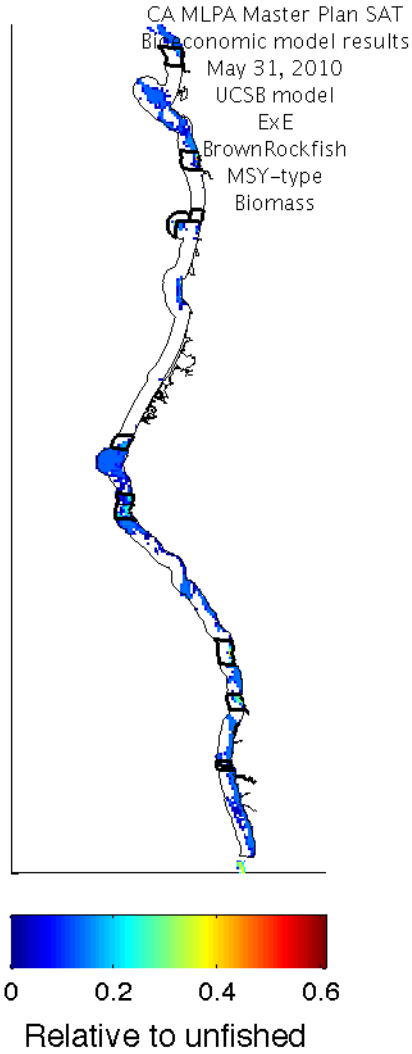

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

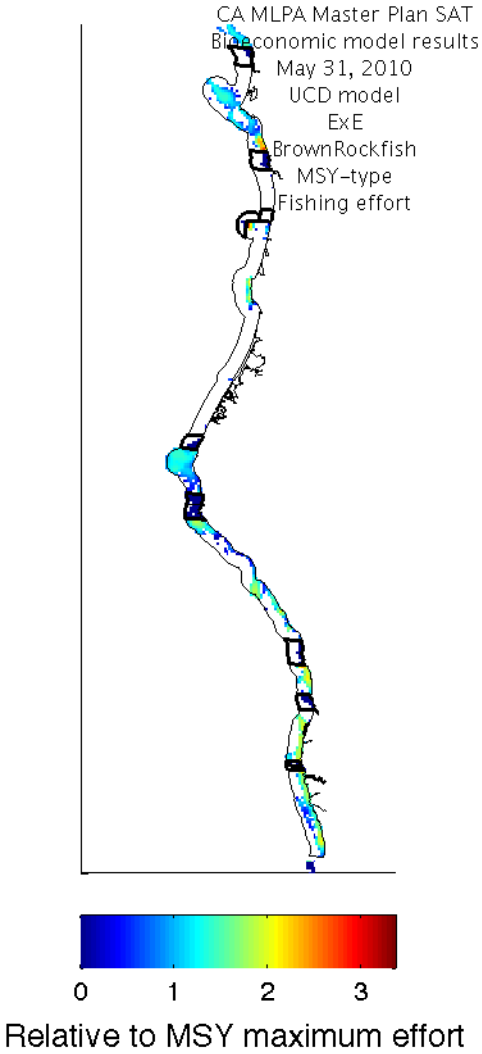

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

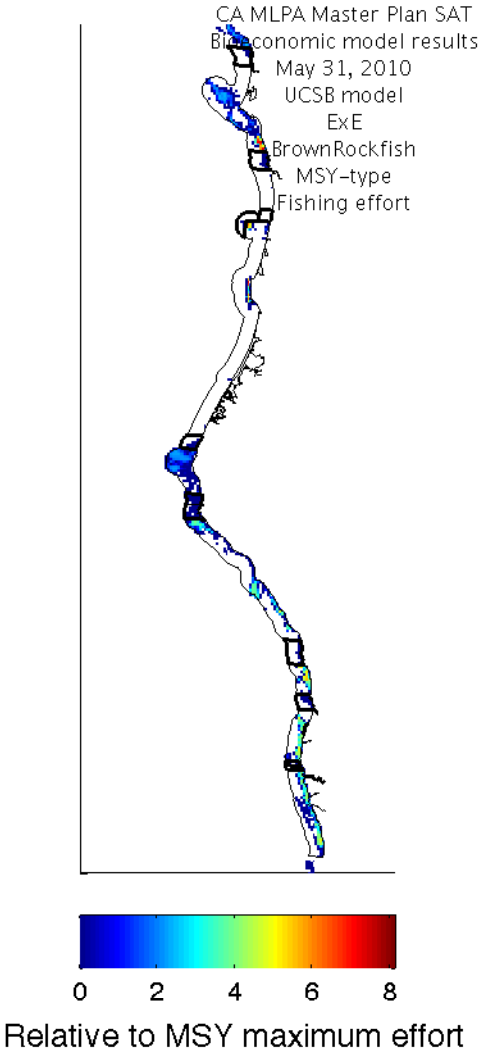

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Conservative Mgmt
Fishing yield
0
2
4
6
Relative to MSY

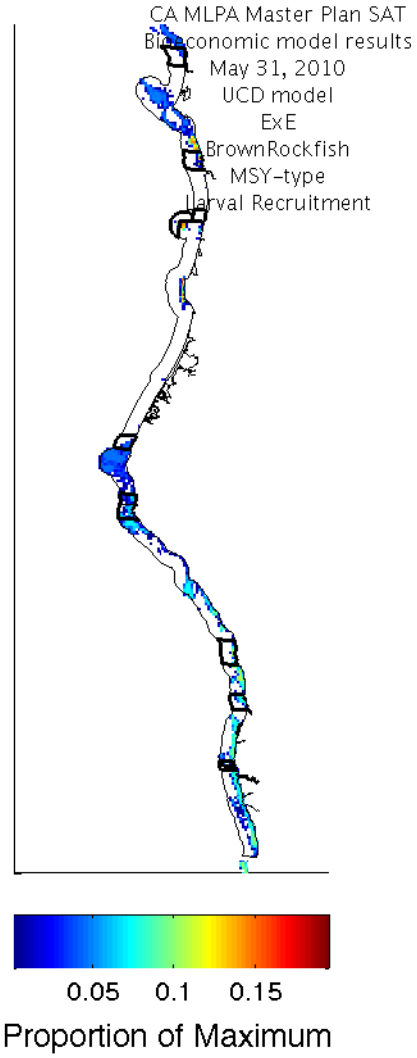

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
Conservative Mgmt
Fishing yield
0
0.4
0.8
1.2
Relative to MSY

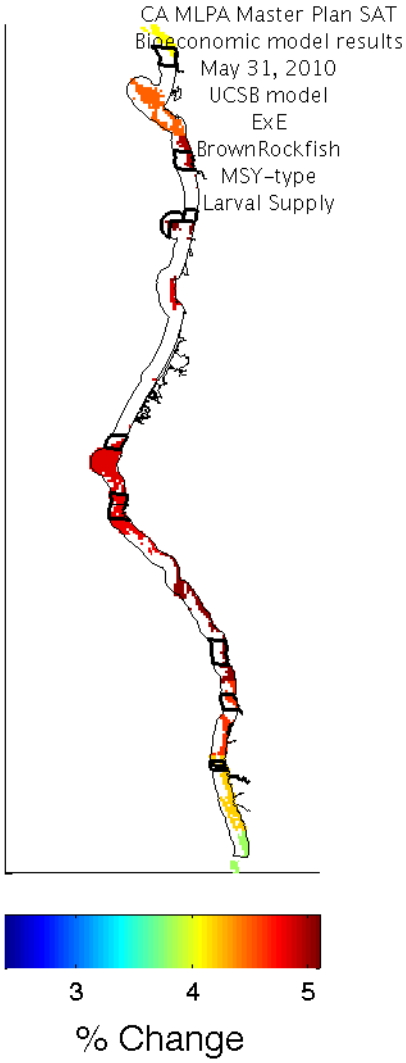

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
MSY-type
Biomass
0.4
0.8
1.2
1.6
Relative to unfished

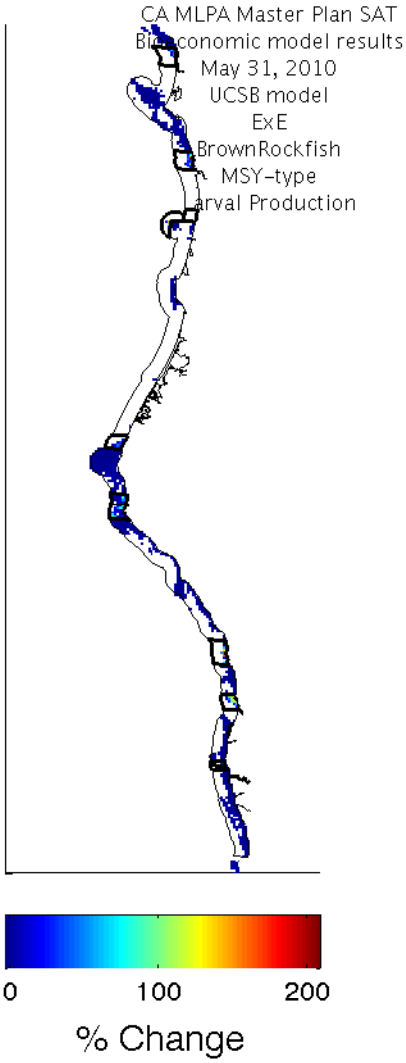

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
MSY-type
Biomass
0
0.2
0.4
0.6
Relative to unfished

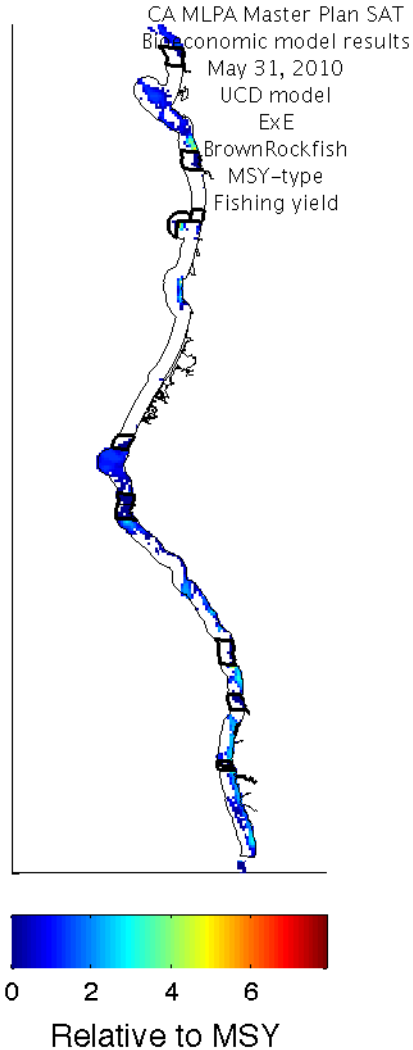

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
MSY-type
Fishing effort
0
1
2
3
Relative to MSY maximum effort

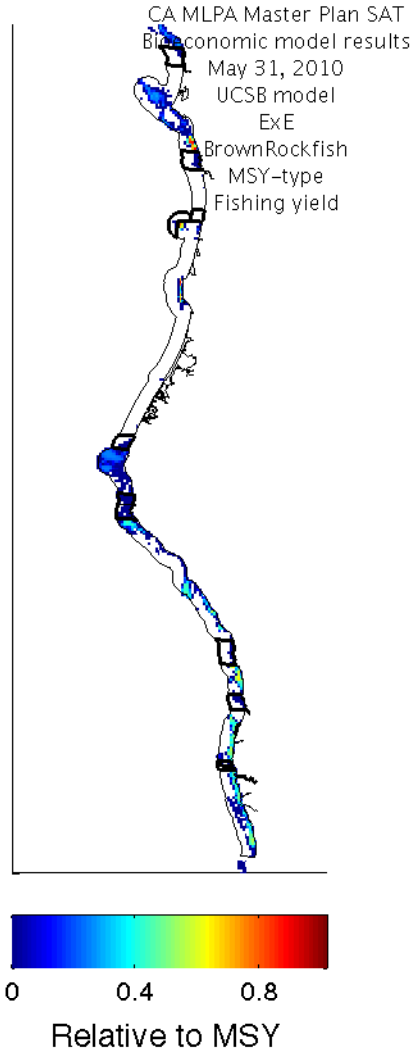

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
MSY-type
Fishing effort
0
2
4
6
8
Relative to MSY maximum effort

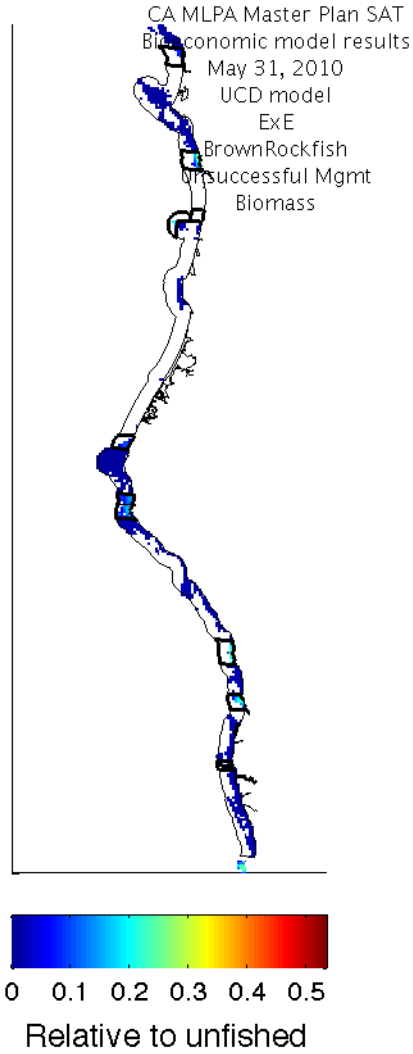

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
MSY-type
Larval Recruitment
0.05
0.1
0.15
Proportion of Maximum

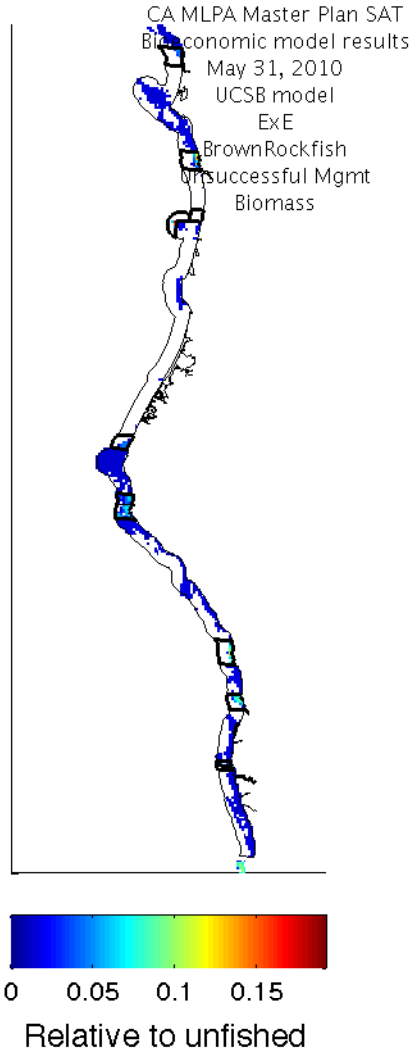

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
MSY-type
Larval Supply
3
4
5
% Change

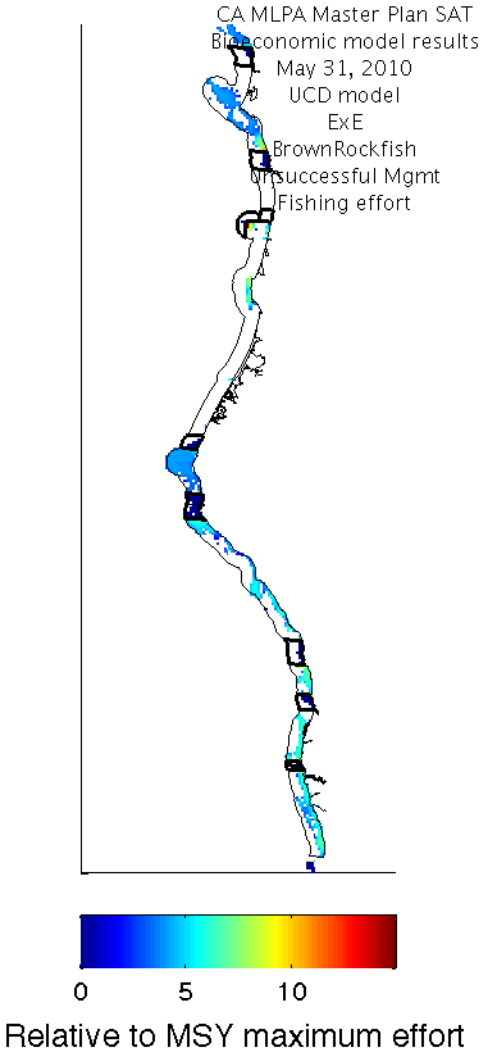

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
MSY-type
arval Production
0
100
200
% Change

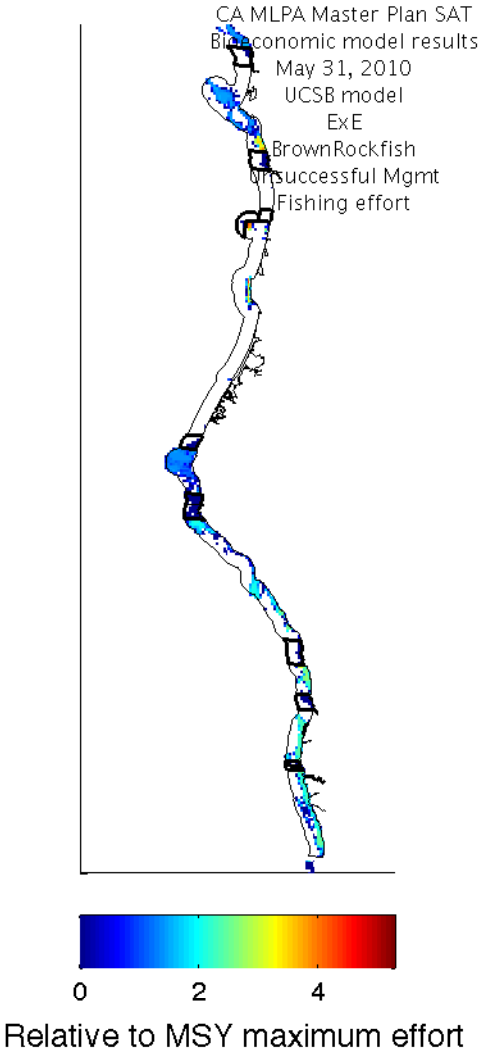

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
MSY-type
Fishing yield
0
2
4
6
Relative to MSY

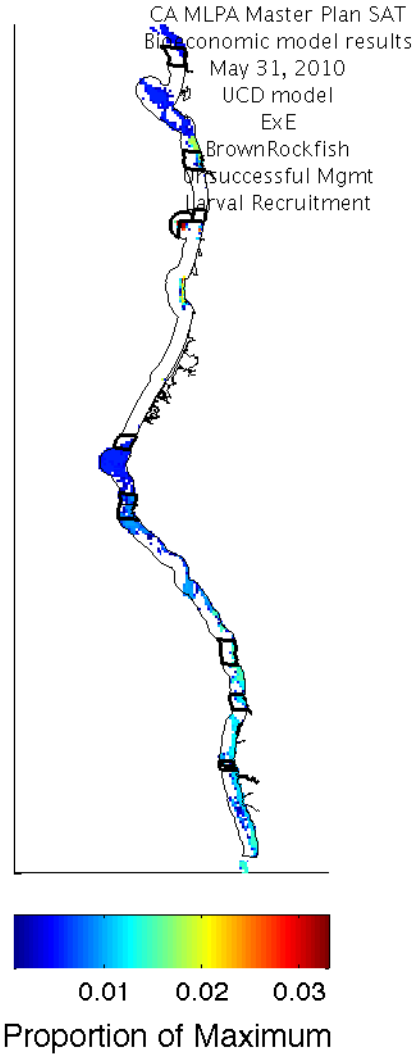

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

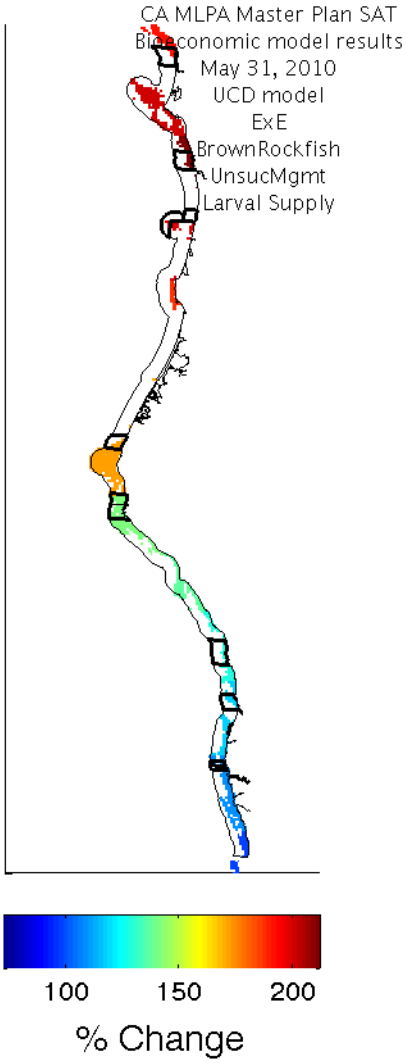

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Unsuccessful Mgmt
Biomass
0
0.1
0.2
0.3
0.4
0.5
Relative to unfished

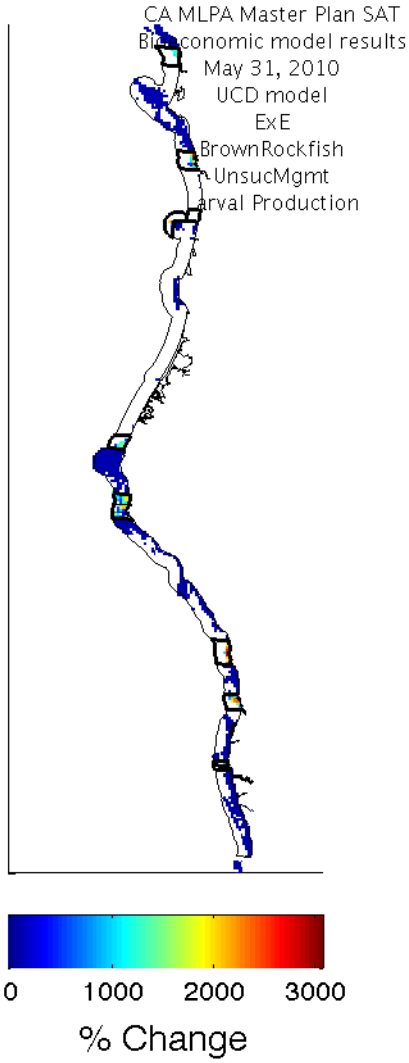

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
Unsuccessful Mgmt
Biomass
0
0.05
0.1
0.15
Relative to unfished

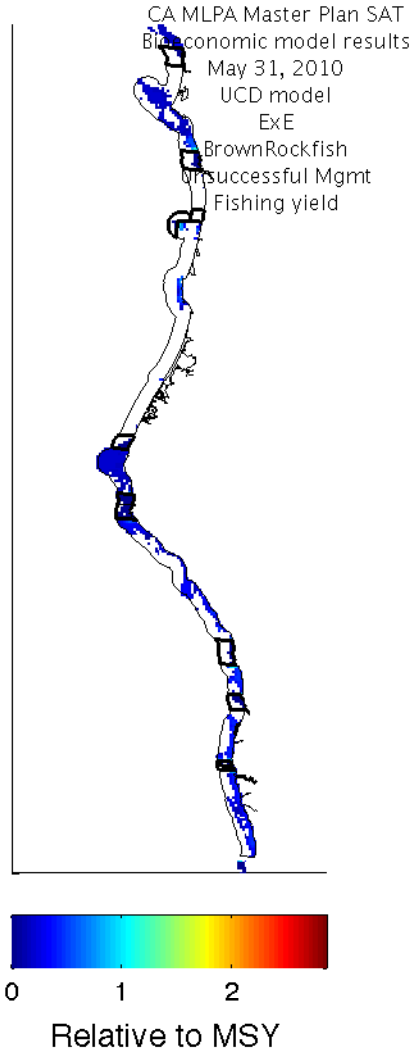

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Unsuccessful Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

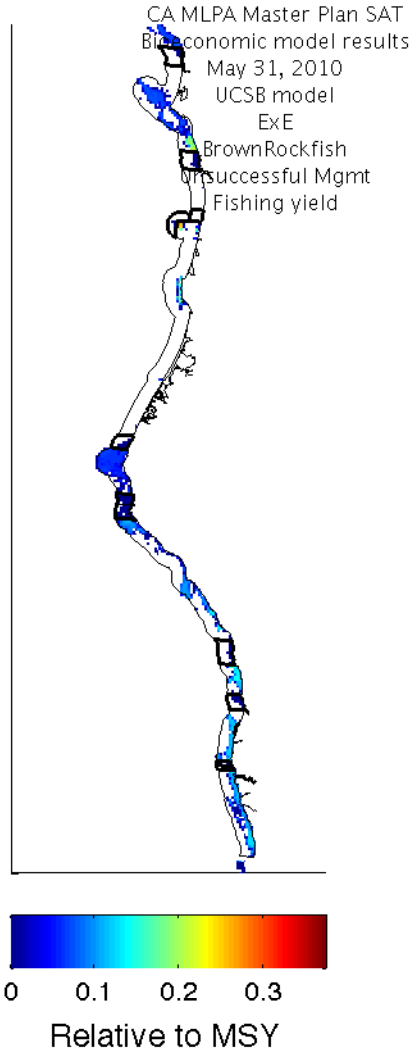

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort

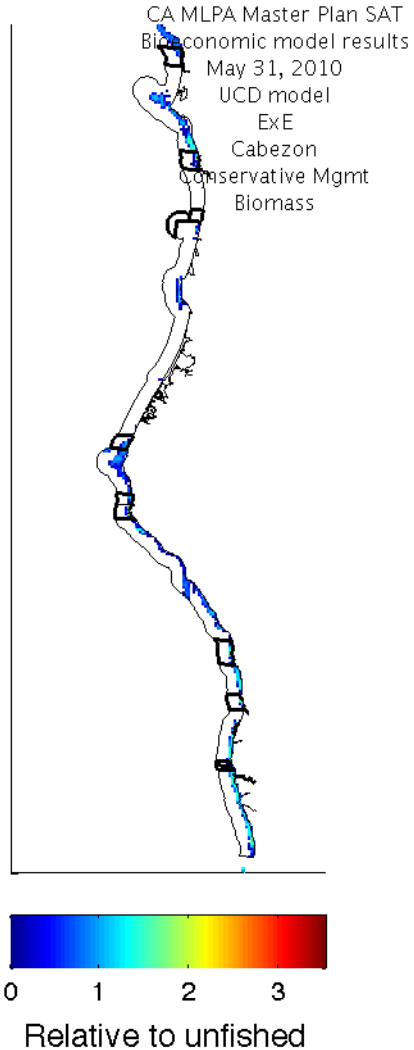

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Unsuccessful Mgmt
Larval Recruitment
0.01
0.02
0.03
Proportion of Maximum

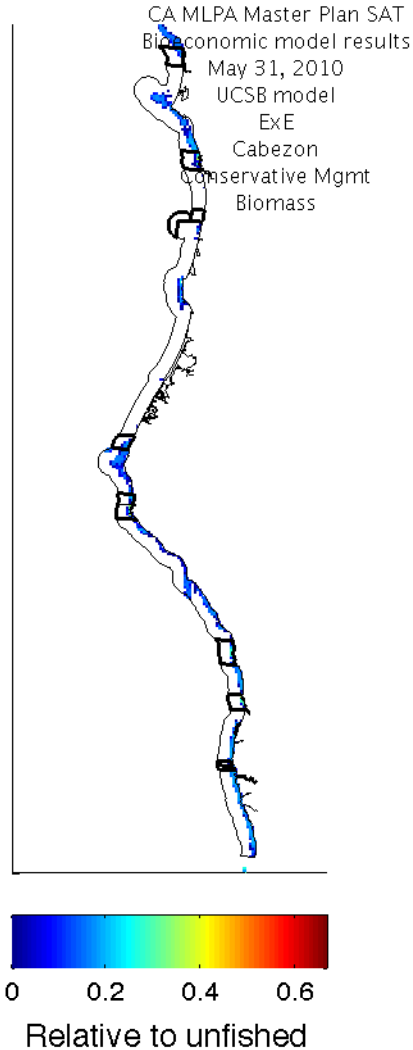

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
UnsucMgmt
Larval Supply
100
150
200
% Change

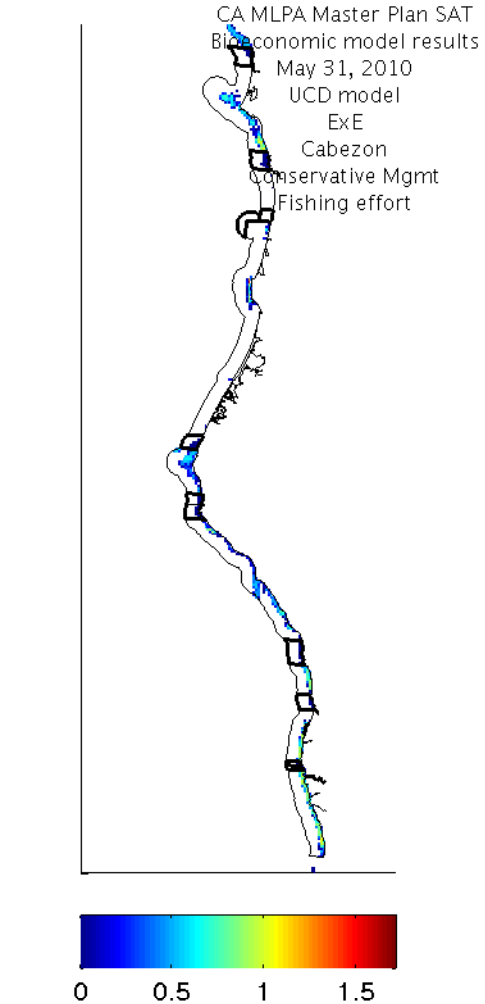

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
UnsucMgmt
arval Production
0
1000
2000
3000
% Change

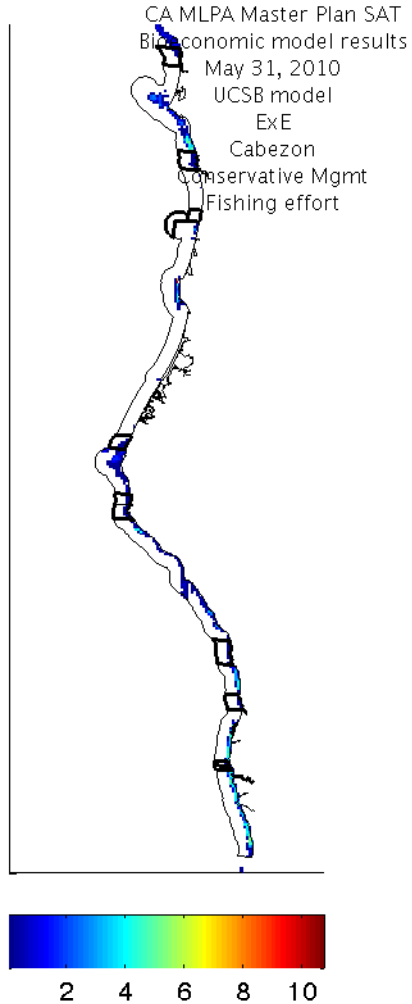

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
BrownRockfish
Unsuccessful Mgmt
Fishing yield
0
1
2
Relative to MSY

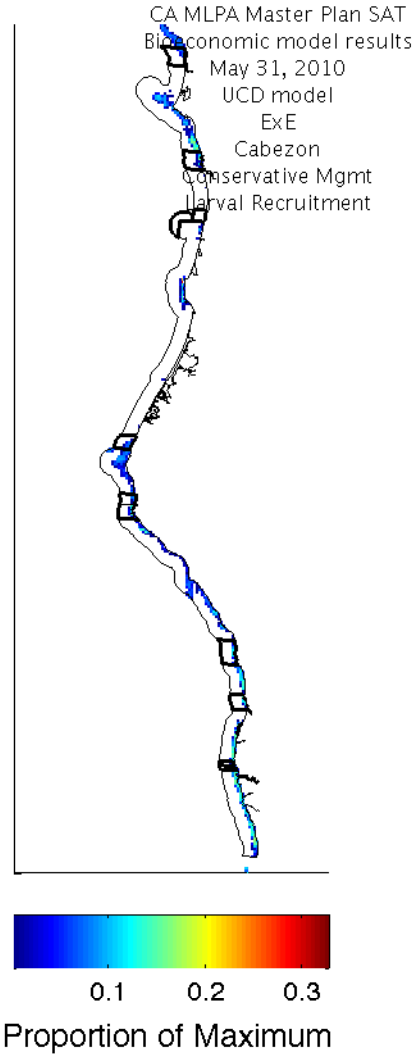

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
BrownRockfish
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
0.3
Relative to MSY

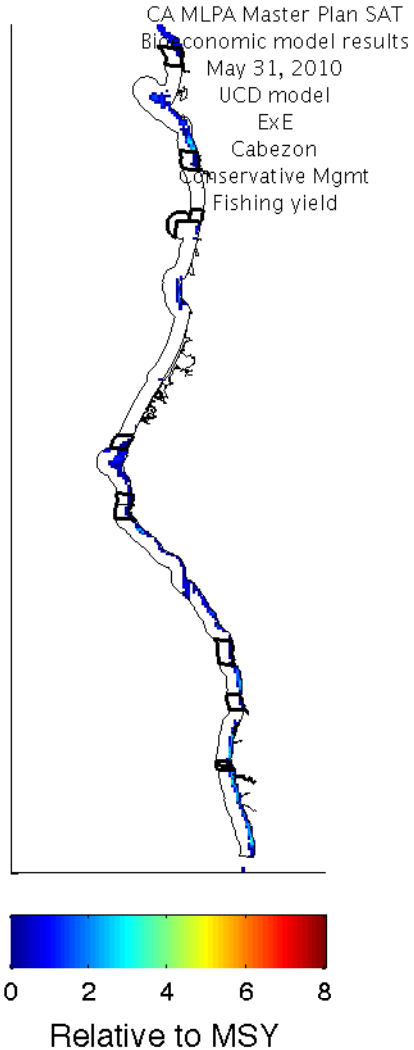

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
Conservative Mgmt
Biomass
0
1
2
3
Relative to unfished

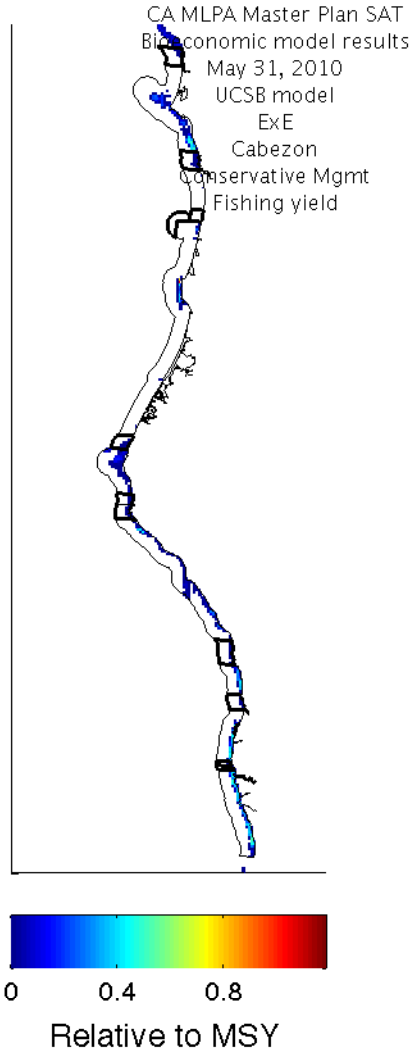

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
Relative to unfished

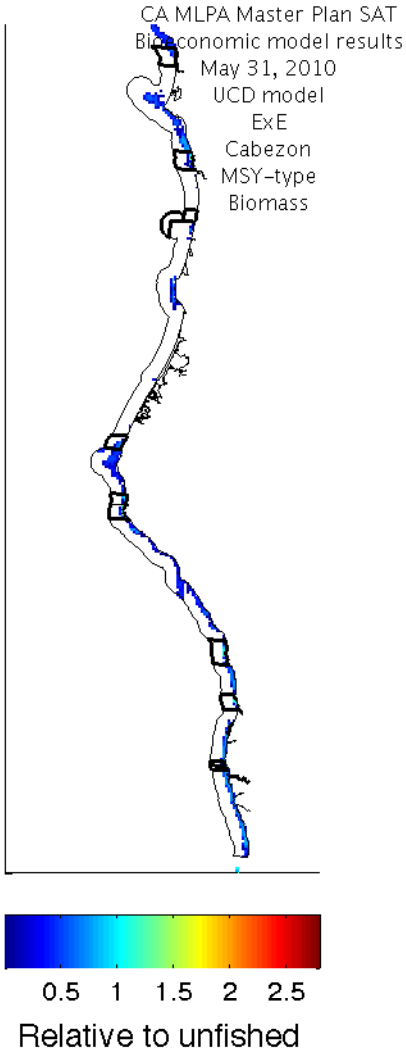

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
Conservative Mgmt
Fishing effort
0
0.5
1
1.5
Relative to MSY maximum effort

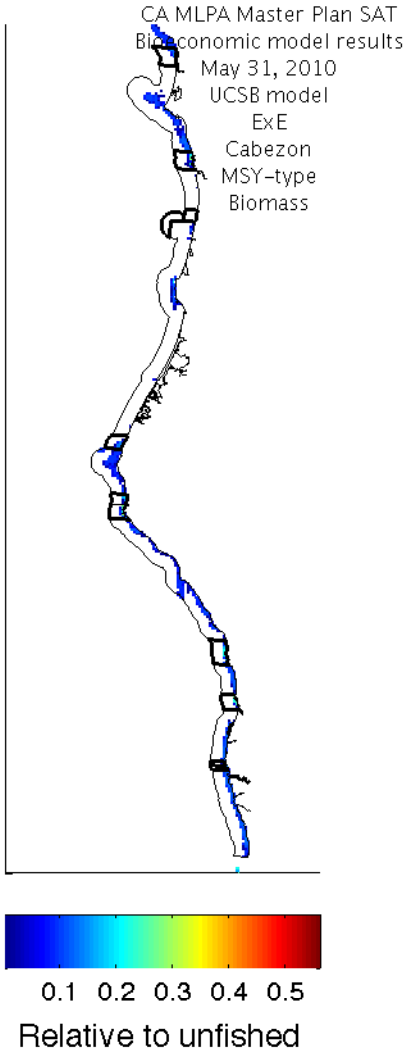

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
Conservative Mgmt
Fishing effort
2
4
6
8
10
Relative to MSY maximum effort

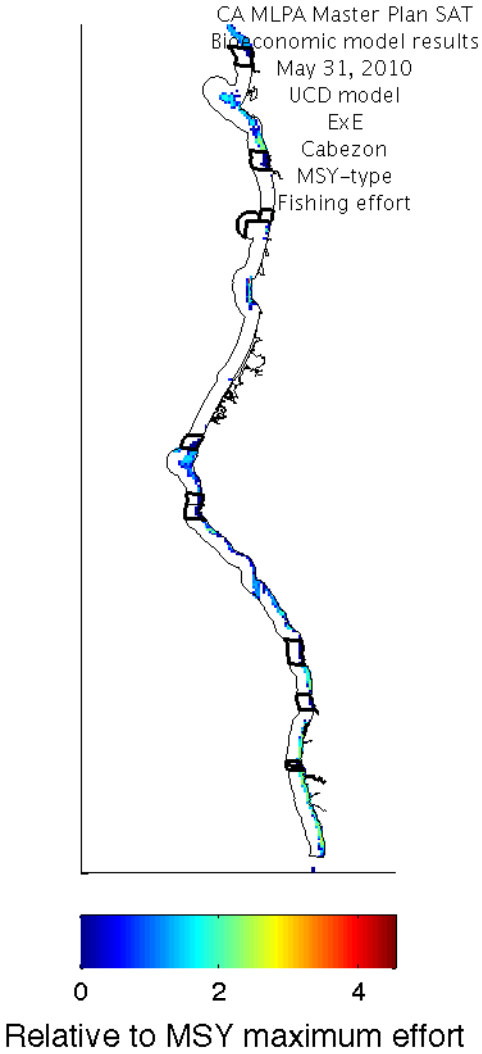

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

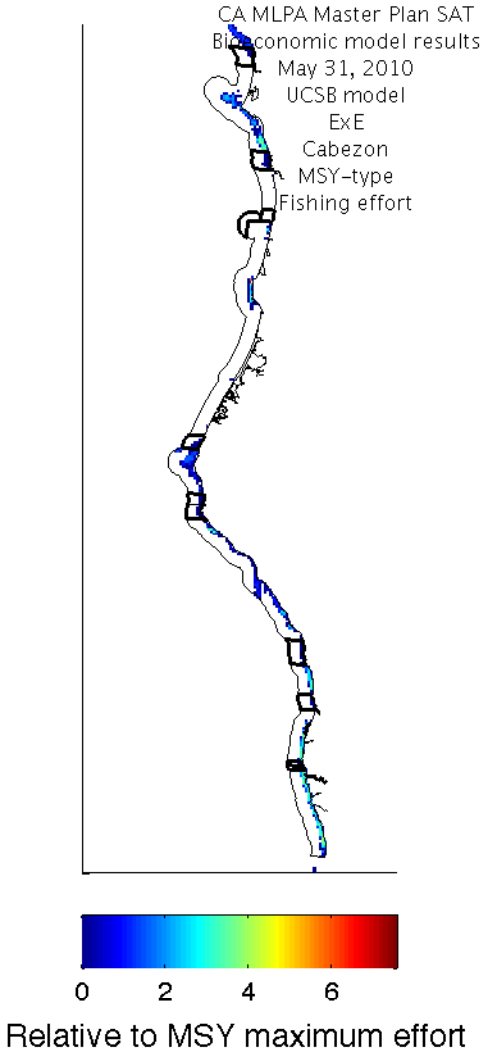

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
Conservative Mgmt
Fishing yield
0
2
4
6
8
Relative to MSY

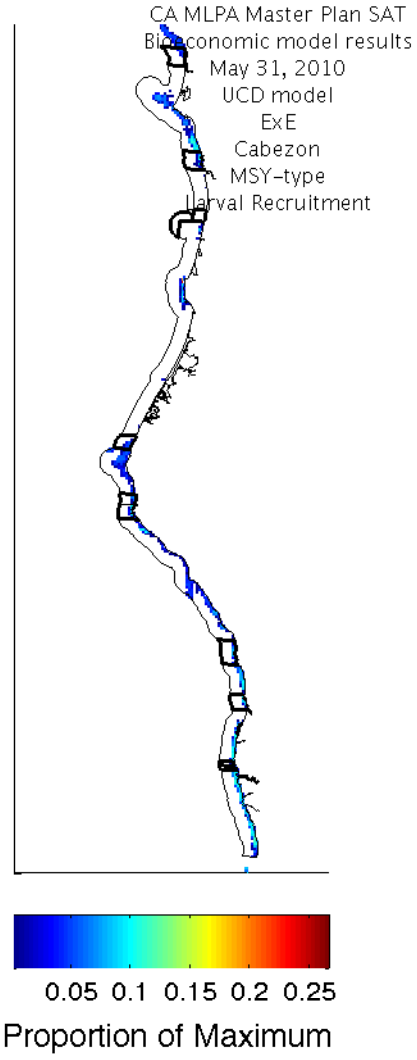

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY

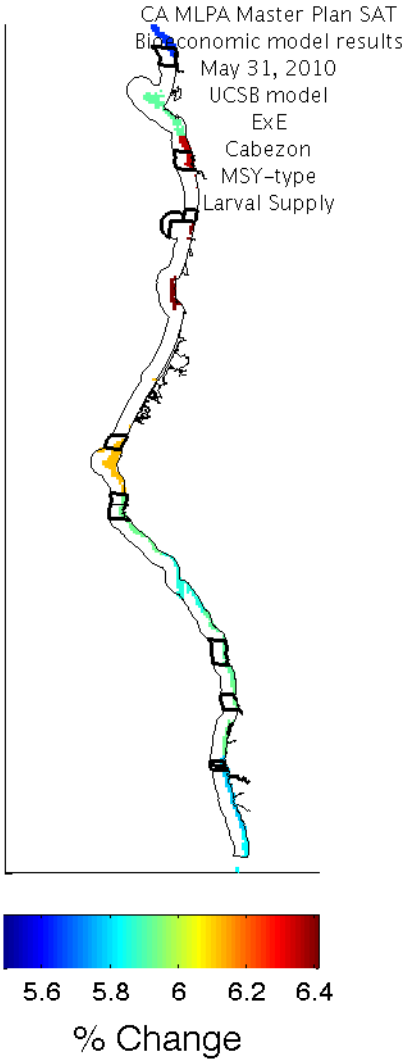

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
MSY-type
Biomass
0.5 1 1.5 2 2.5
Relative to unfished

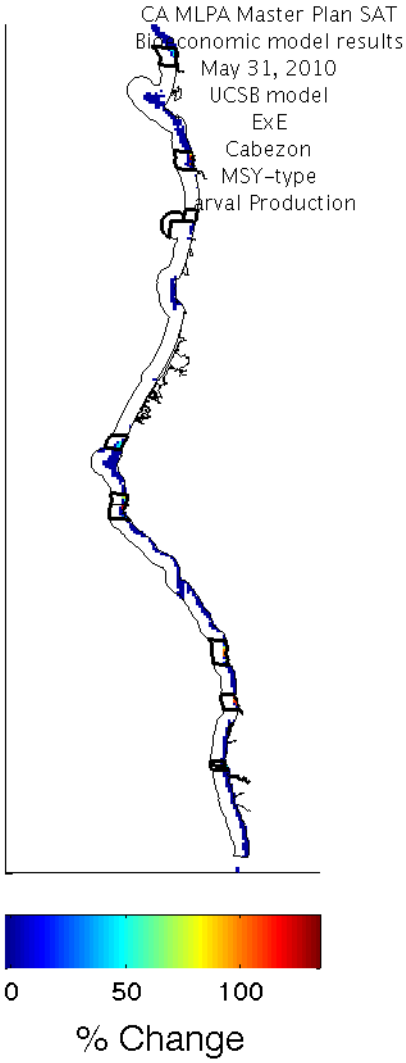

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
MSY-type
Biomass
0.1 0.2 0.3 0.4 0.5
Relative to unfished

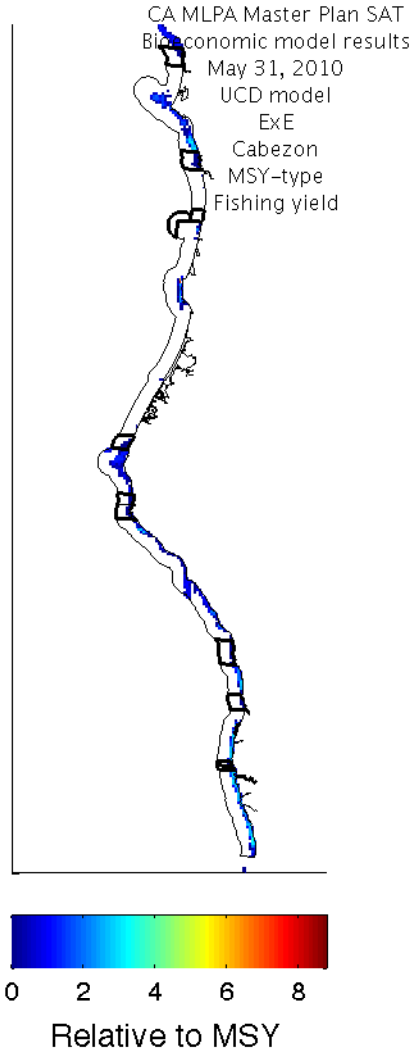

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
MSY-type
Fishing effort
0
2
4
Relative to MSY maximum effort

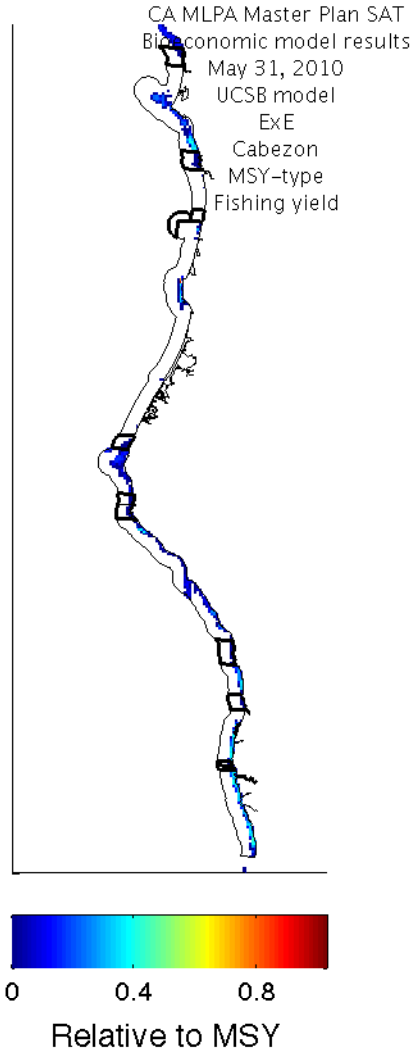

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
MSY-type
Fishing effort
0
2
4
6
Relative to MSY maximum effort

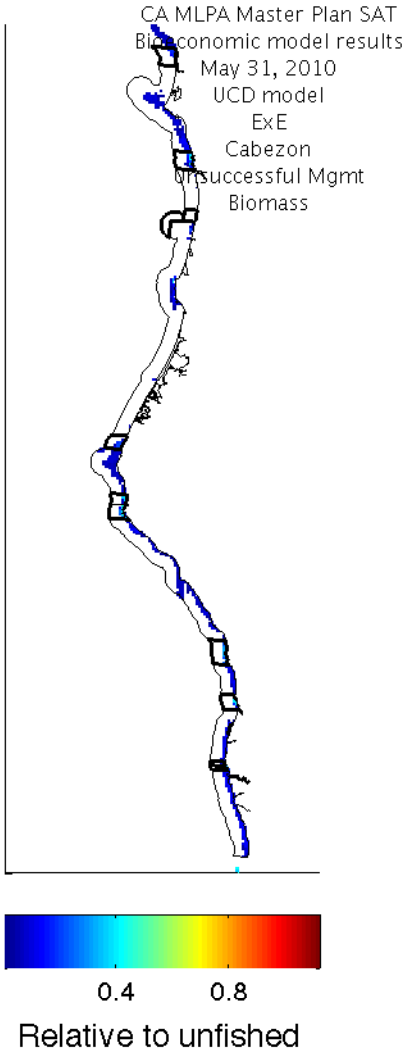

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
MSY-type
larval Recruitment
0.05 0.1 0.15 0.2 0.25
Proportion of Maximum

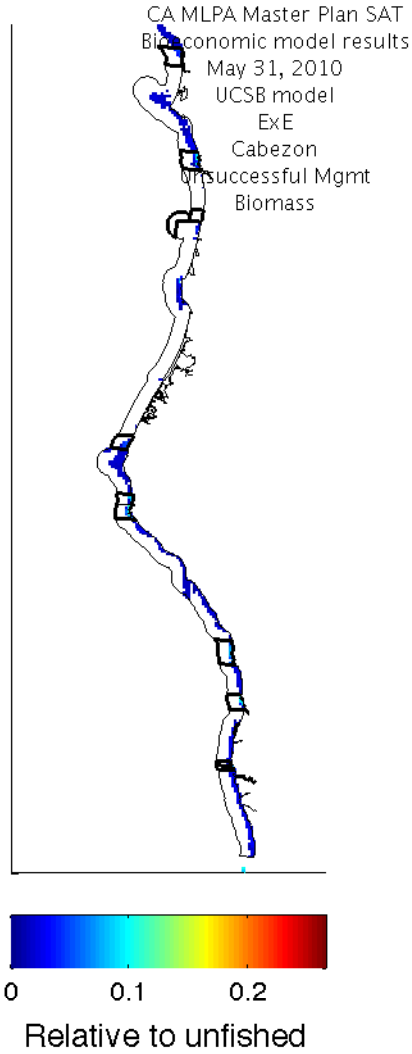

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
MSY-type
Larval Supply
5.6
5.8
6
6.2
6.4
% Change

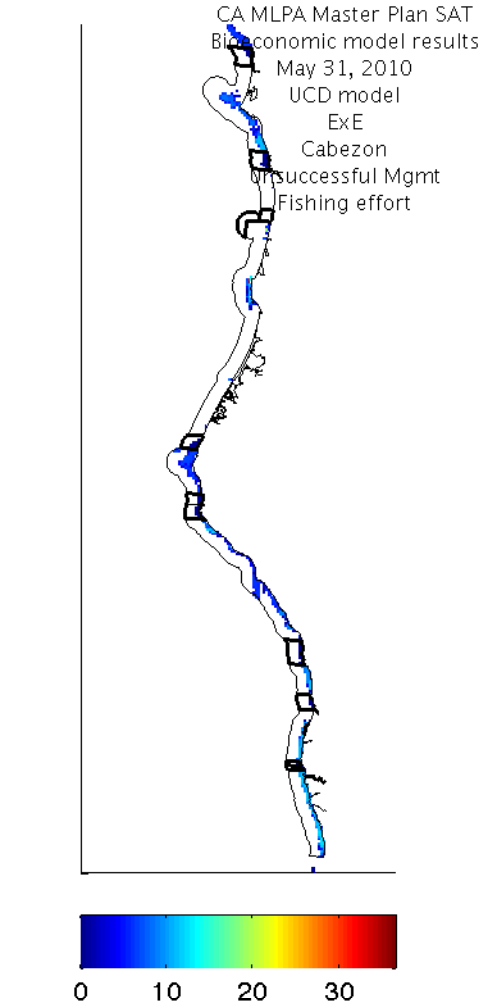

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
MSY-type
arval Production
0
50
100
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
MSY-type
Fishing yield
0
2
4
6
8
Relative to MSY

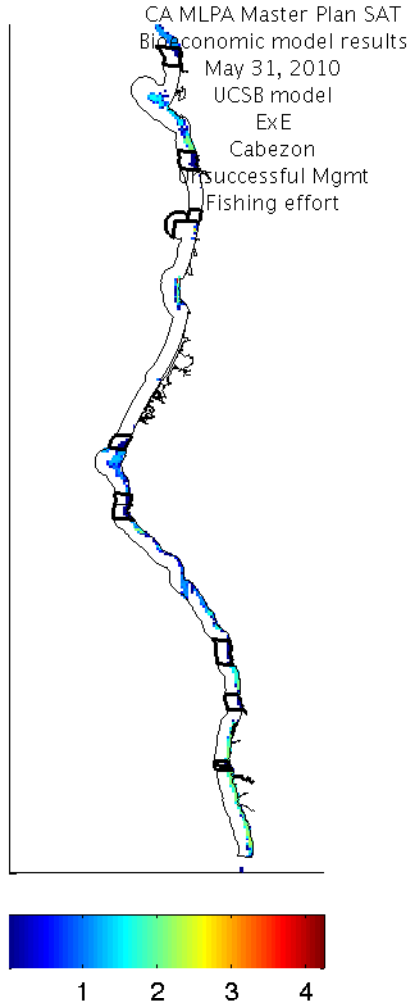

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
Unsuccessful Mgmt
Biomass
0.4
0.8
Relative to unfished

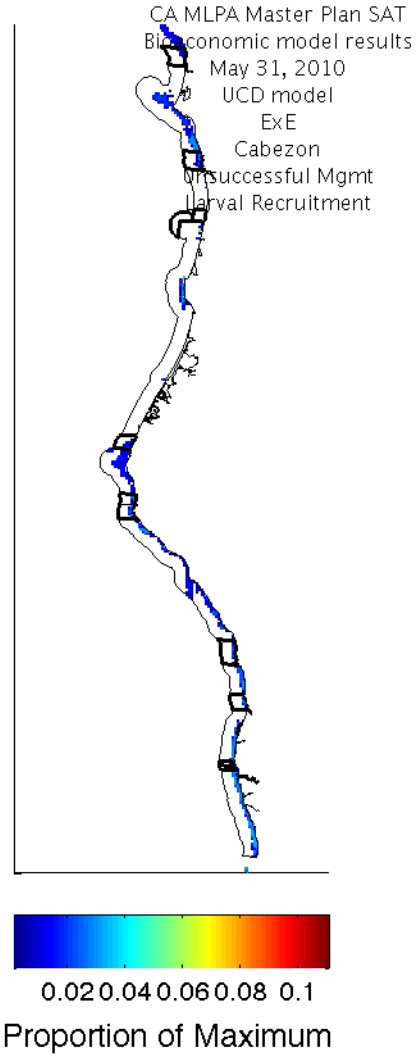

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
Unsuccessful Mgmt
Biomass
0
0.1
0.2
Relative to unfished

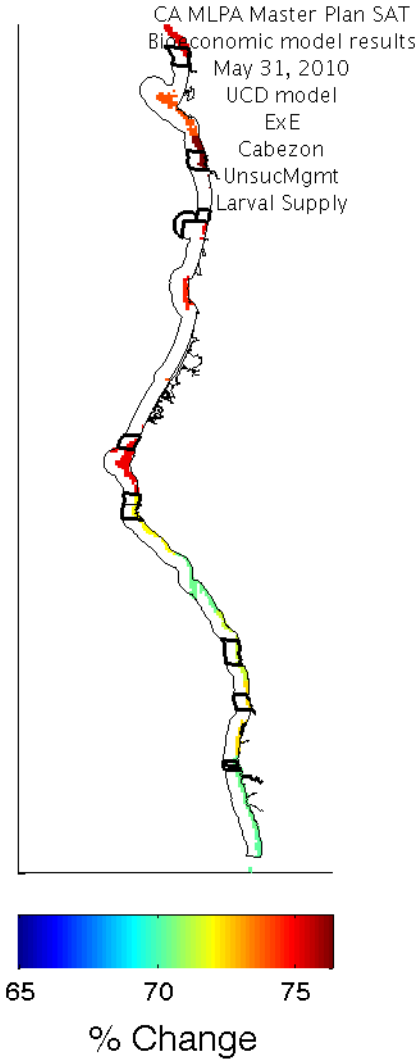


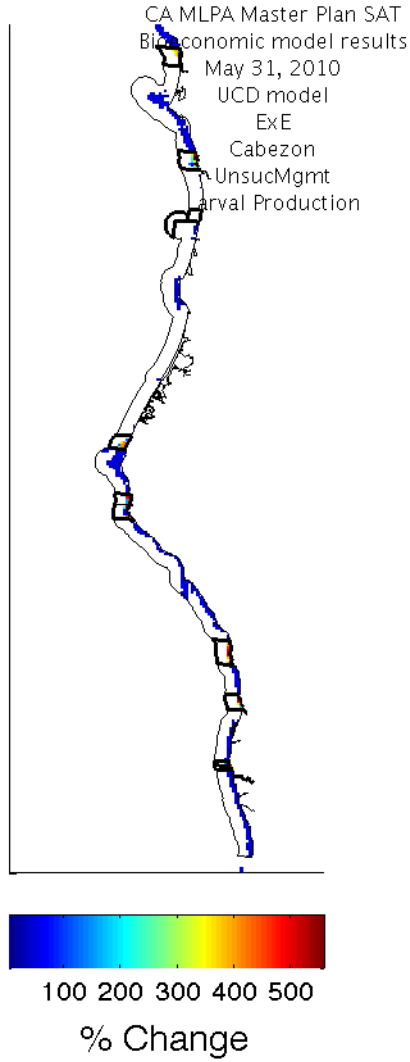
Relative to MSY maximum effort

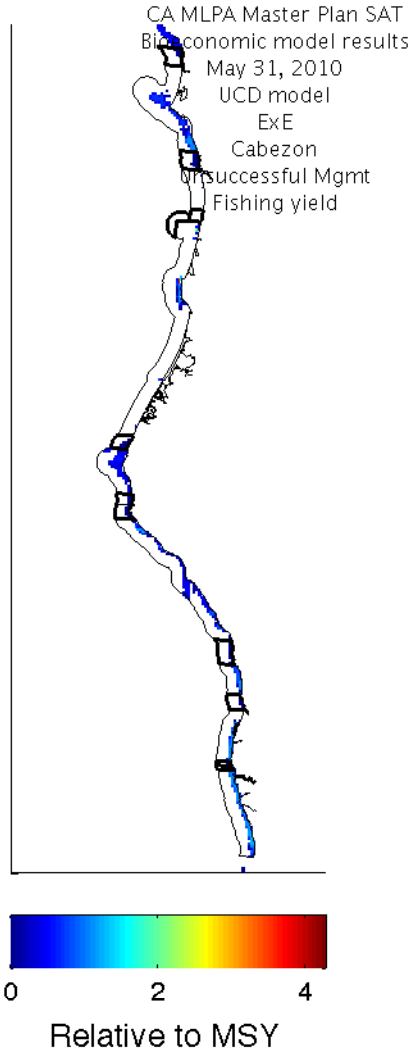


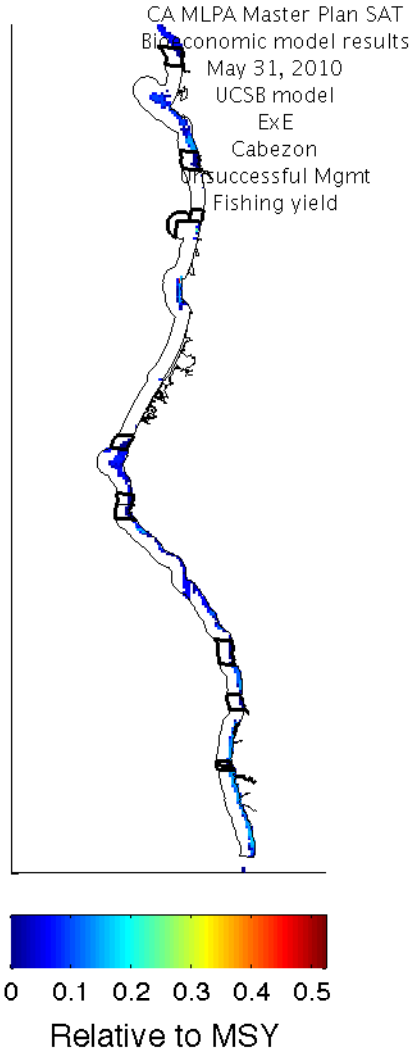
Relative to MSY maximum effort

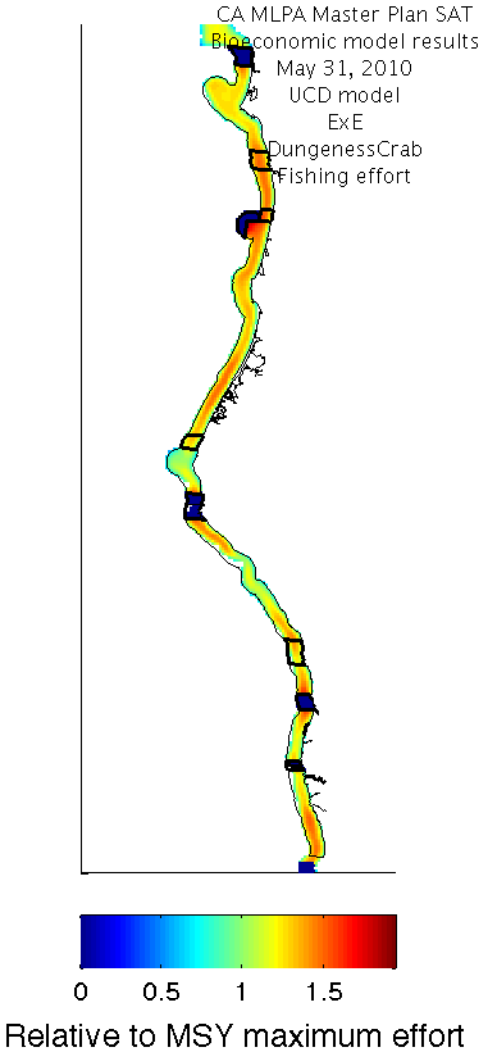

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
Unsuccessful Mgmt
Larval Recruitment
0.02 0.04 0.06 0.08 0.1
Proportion of Maximum

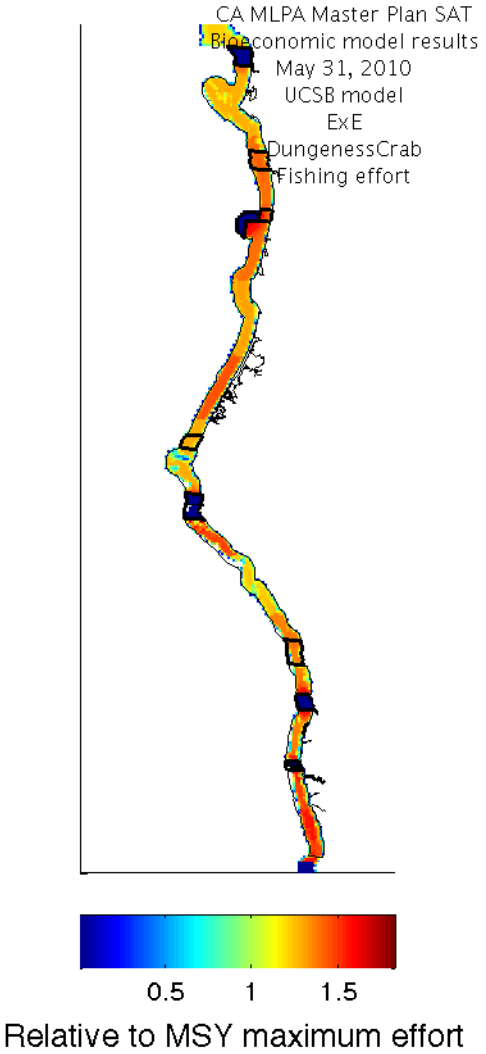

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
UnsucMgmt
Larval Supply
65
70
75
% Change

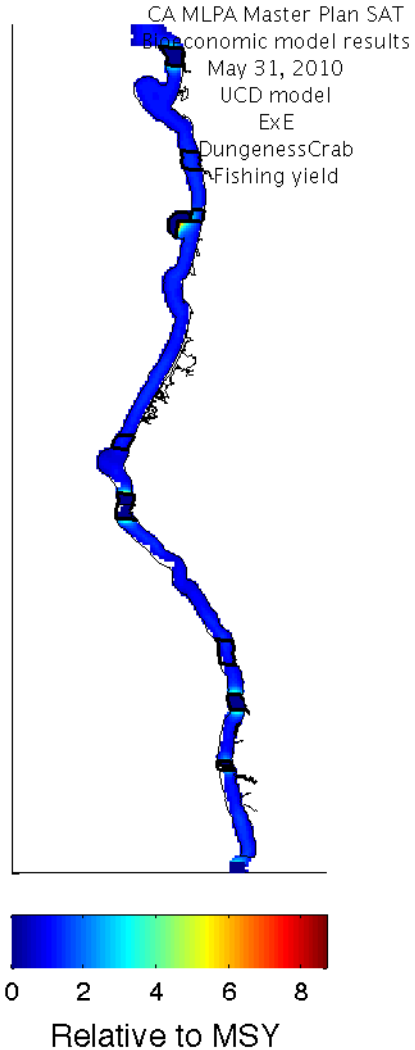

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
UnsucMgmt
arval Production
100 200 300 400 500
% Change

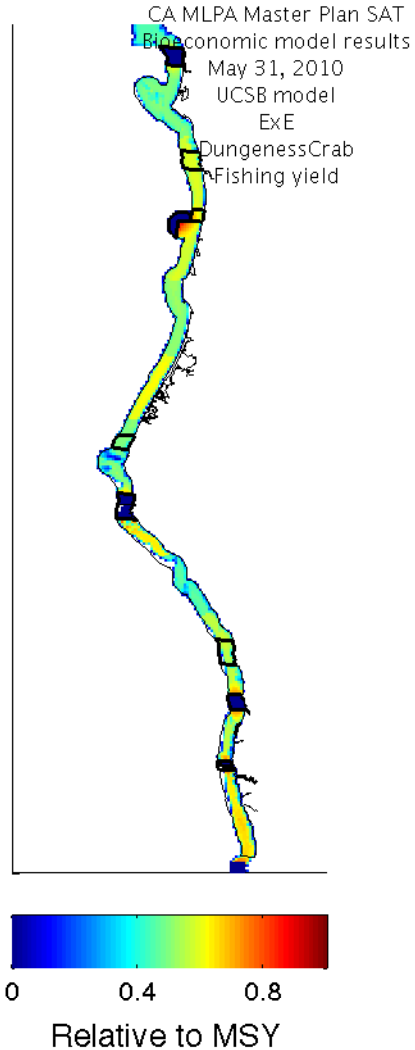

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
Cabezon
Unsuccessful Mgmt
Fishing yield
0
2
4
Relative to MSY

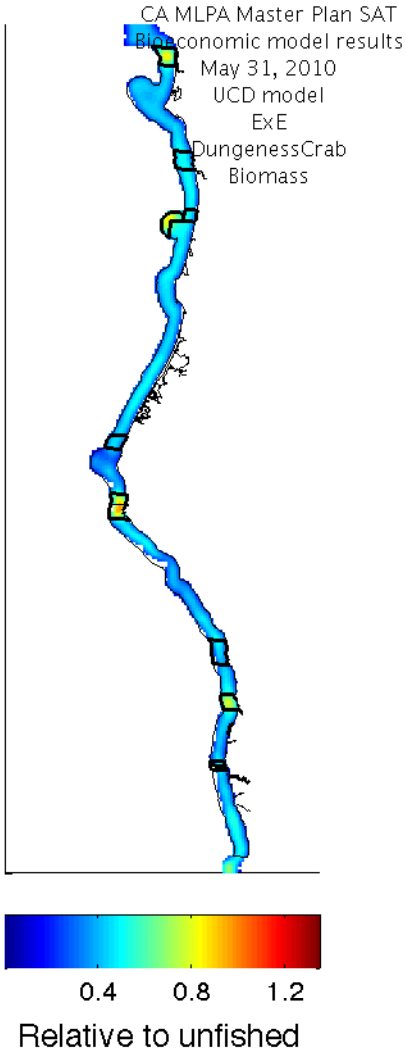

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
Cabezon
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
0.3
0.4
0.5
Relative to MSY

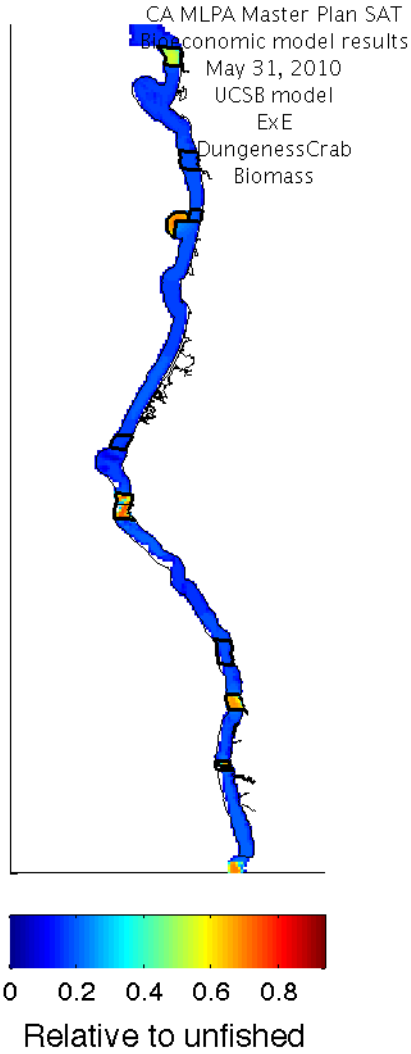

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
DungenessCrab
Fishing effort
0
0.5
1
1.5
Relative to MSY maximum effort

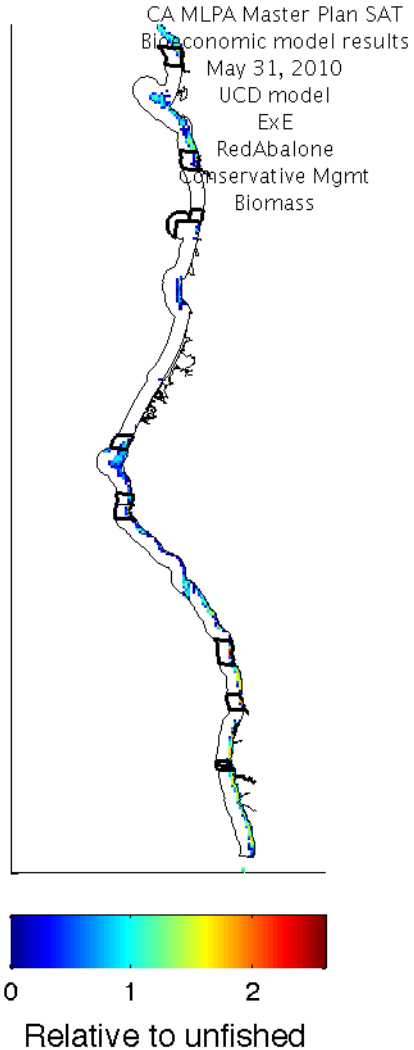

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
DungenessCrab
Fishing effort
0.5
1
1.5
Relative to MSY maximum effort

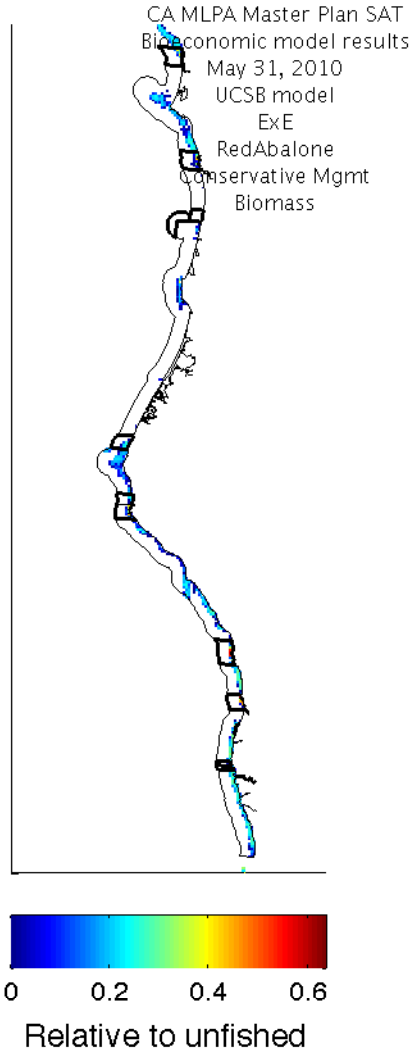

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
DungenessCrab
Fishing yield
0
2
4
6
8
Relative to MSY

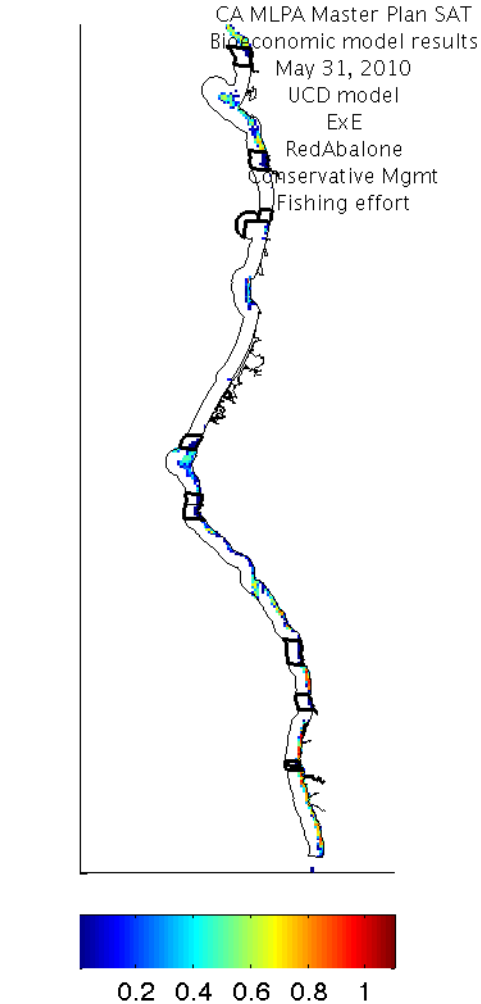

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
DungenessCrab
Fishing yield
0
0.4
0.8
Relative to MSY

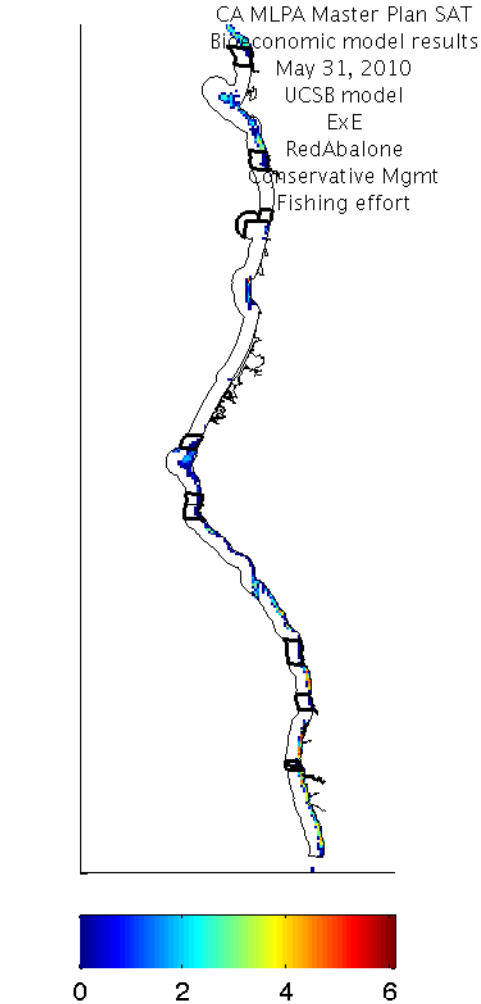

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
DungenessCrab
Biomass
0.4
0.8
1.2
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
DungenessCrab
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
Conservative Mgmt
Biomass
0
1
2
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
Conservative Mgmt
Fishing effort
0.2 0.4 0.6 0.8 1
Relative to MSY maximum effort


CA MLPA Master Plan SAT
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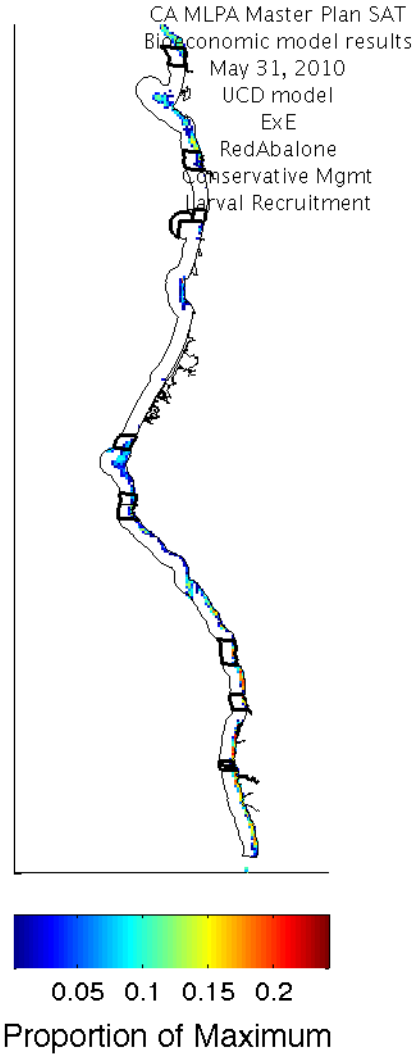
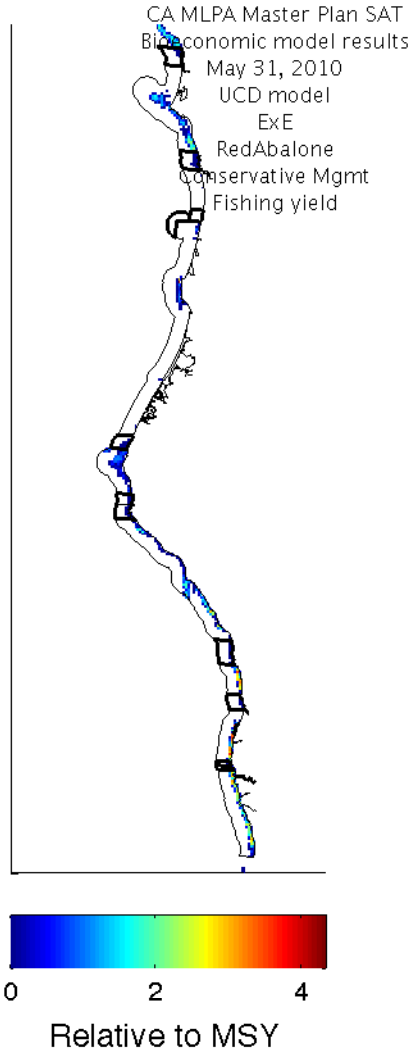
May 31, 2010
UCSB model
ExE
RedAbalone
Conservative Mgmt
Fishing effort
0 2 4 6
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
Conservative Mgmt
larval Recruitment
0.05
0.1
0.15
0.2
Proportion of Maximum


CA MLPA Master Plan SAT
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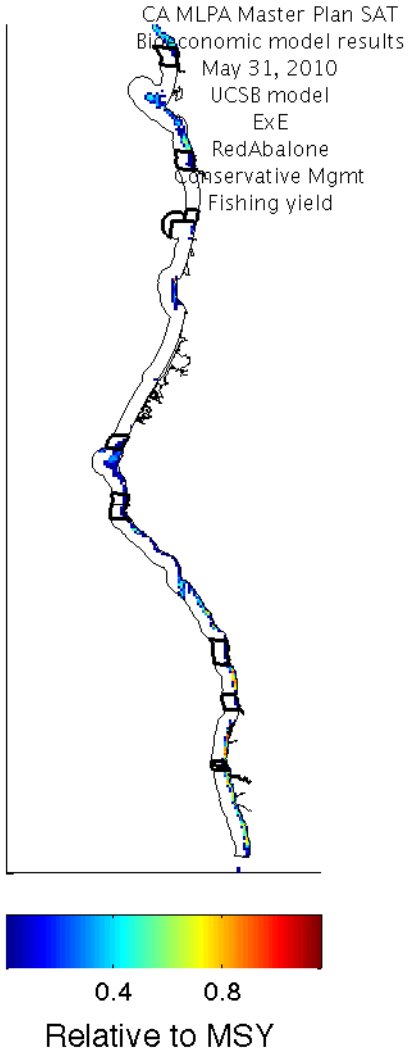
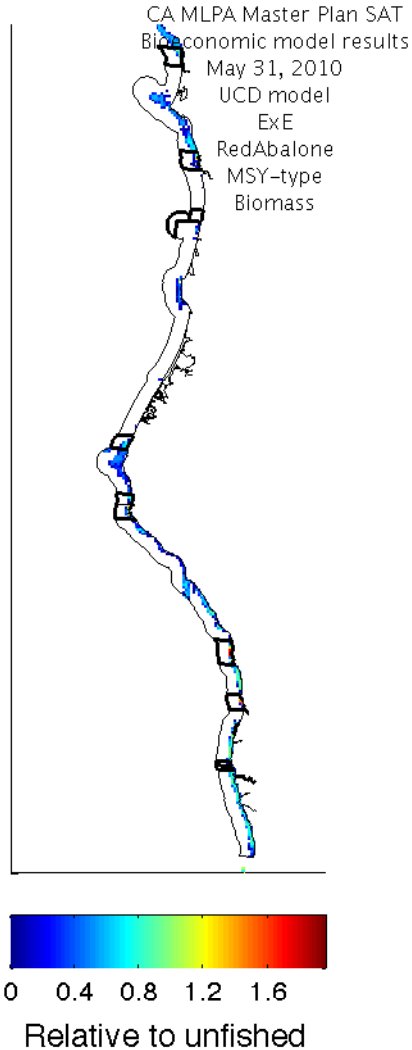
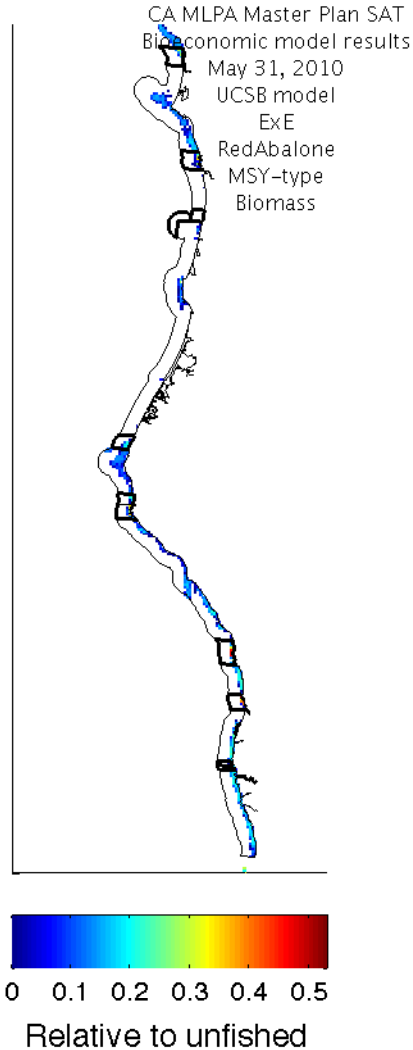
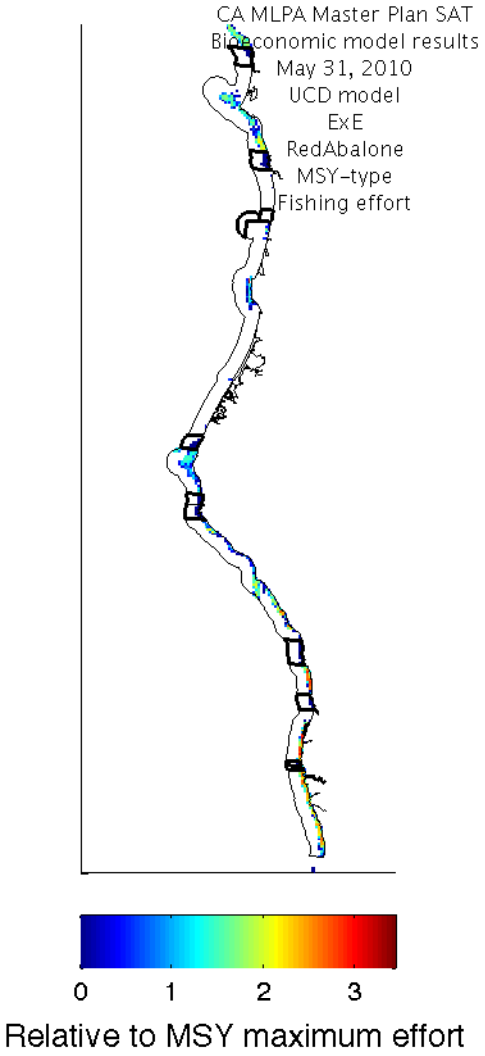
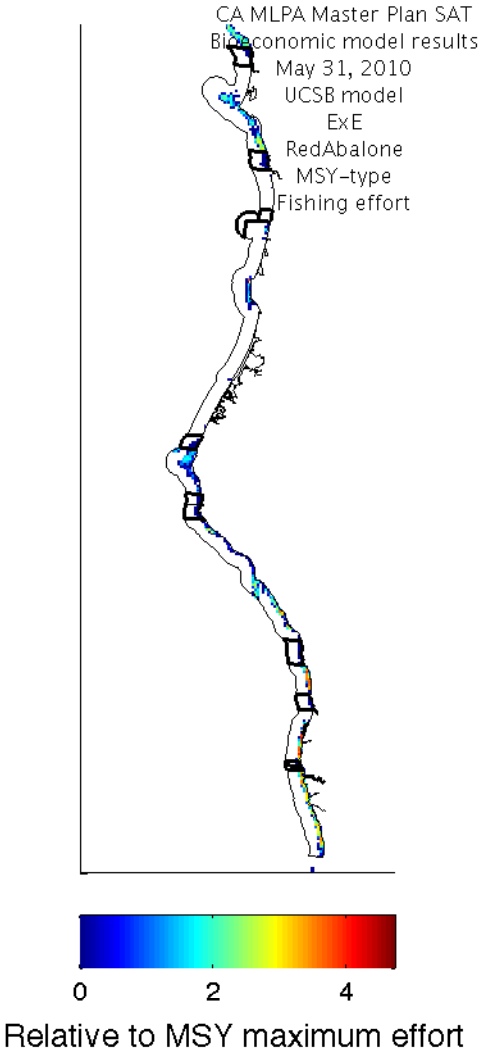
May 31, 2010
UCD model
ExE
RedAbalone
Conservative Mgmt
Fishing yield
0
2
4
Relative to MSY

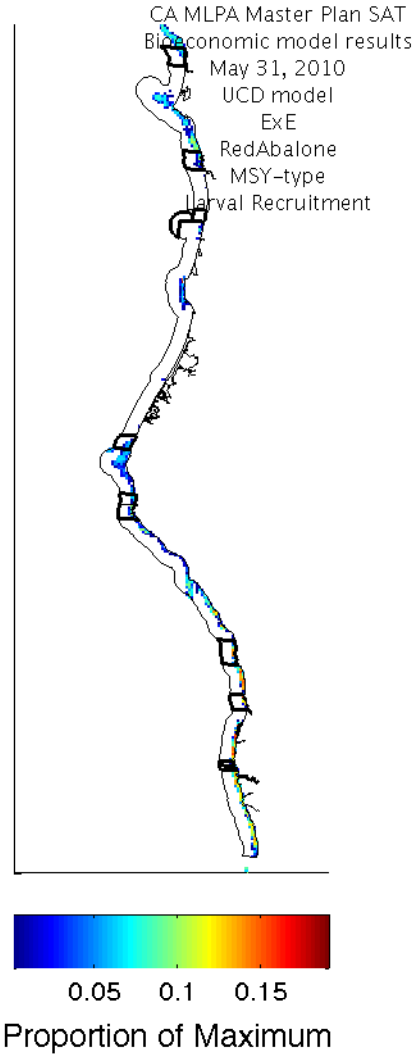

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
Conservative Mgmt
Fishing yield
0.4
0.8
Relative to MSY

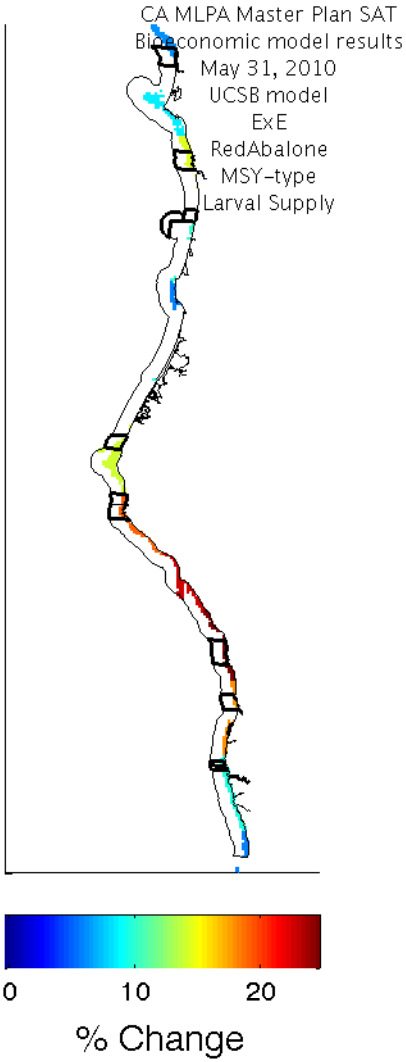

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
MSY-type
Biomass
0
0.4
0.8
1.2
1.6
Relative to unfished

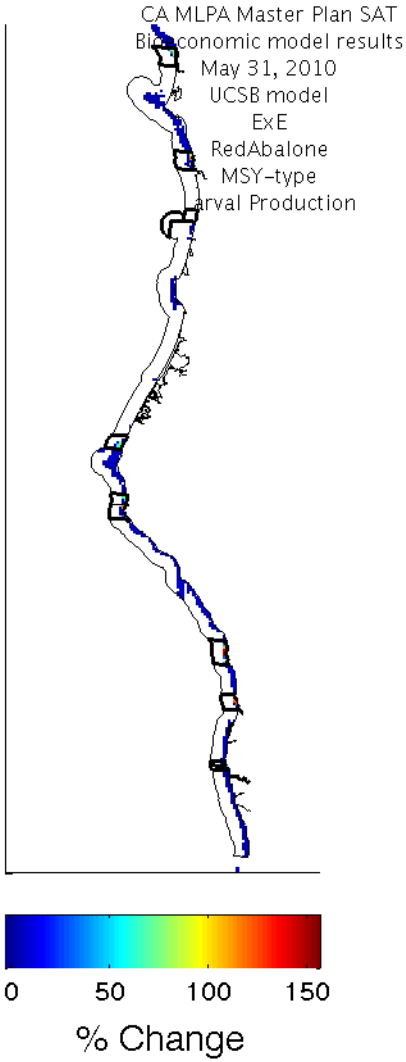

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
MSY-type
Biomass
0
0.1
0.2
0.3
0.4
0.5
Relative to unfished

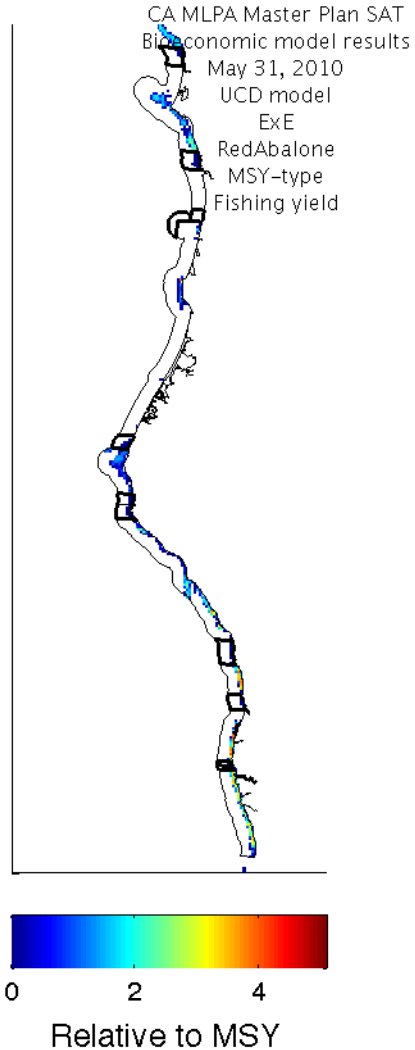

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
MSY-type
Fishing effort
0
1
2
3
Relative to MSY maximum effort

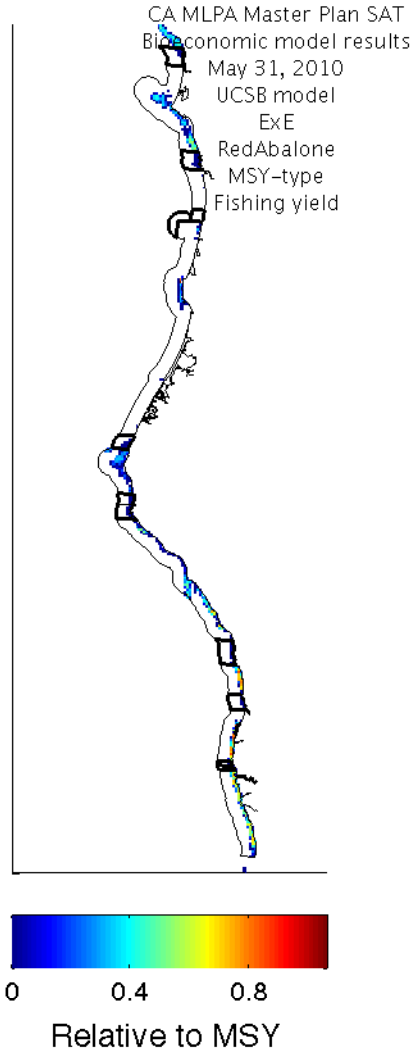

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
MSY-type
Fishing effort
0
2
4
Relative to MSY maximum effort

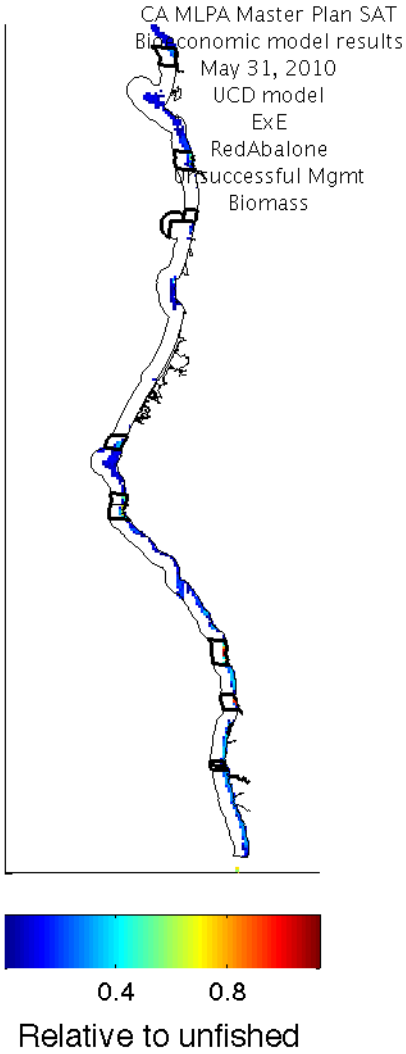

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
MSY-type
Larval Recruitment
0.05
0.1
0.15
Proportion of Maximum

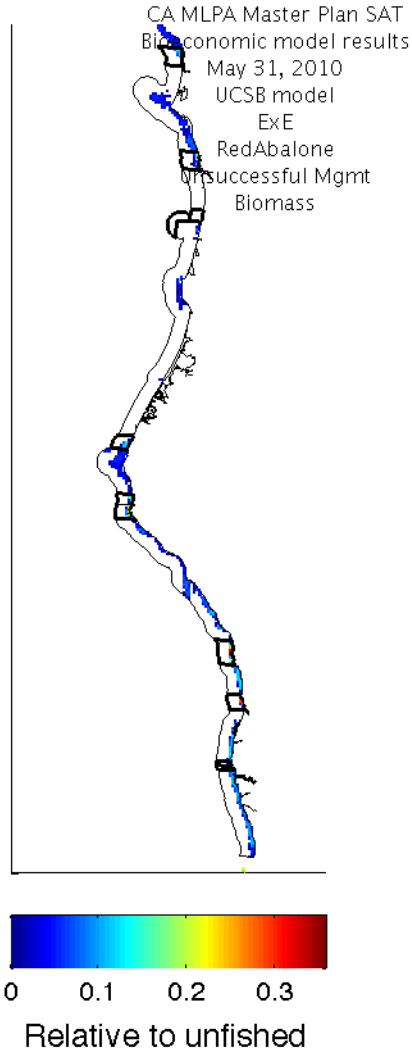

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
MSY-type
Larval Supply
0
10
20
% Change

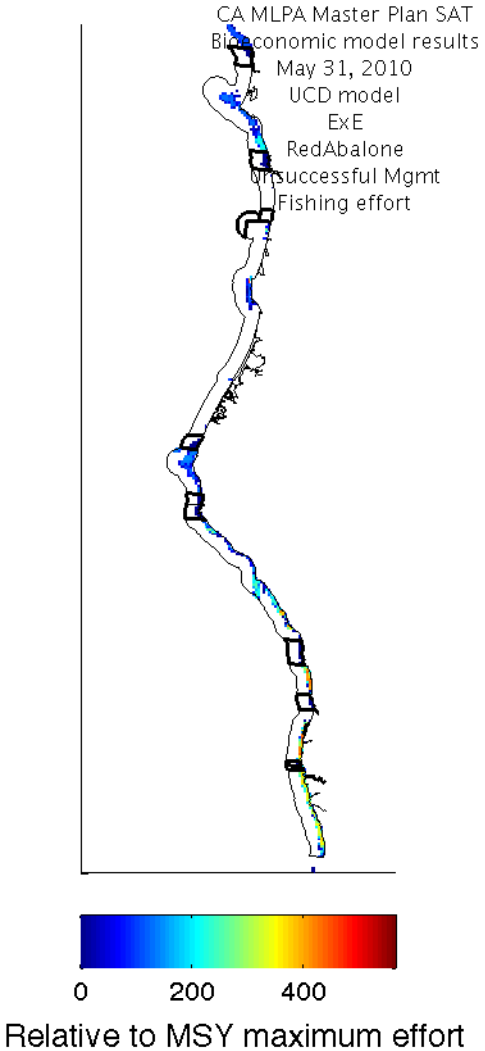

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
MSY-type
arval Production
0
50
100
150
% Change

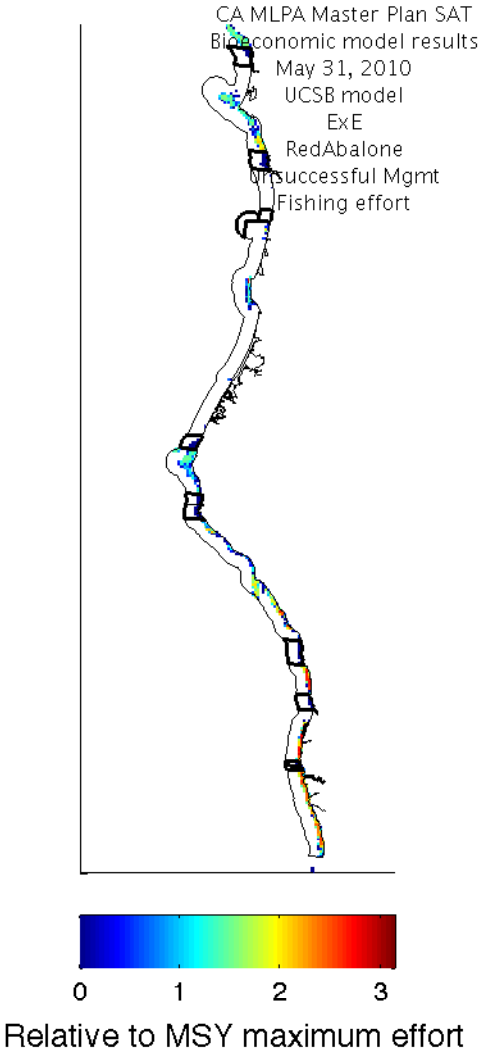

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
MSY-type
Fishing yield
0
2
4
Relative to MSY

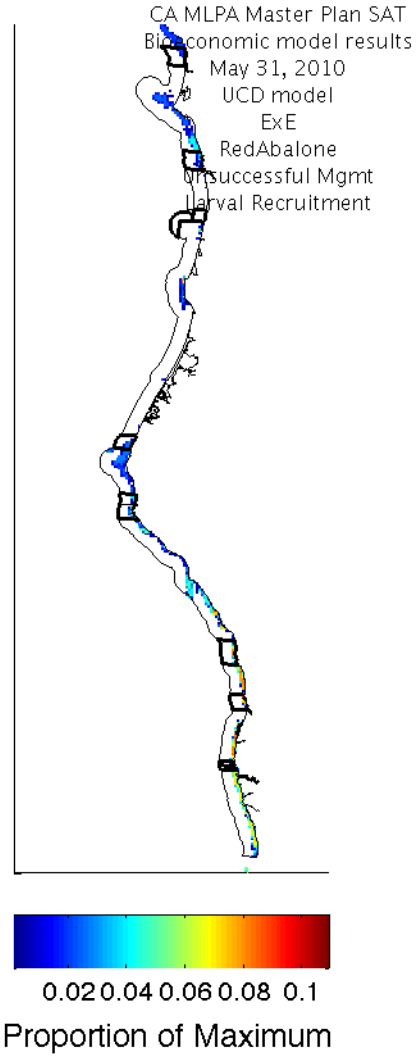

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
Unsuccessful Mgmt
Biomass
0.4
0.8
Relative to unfished

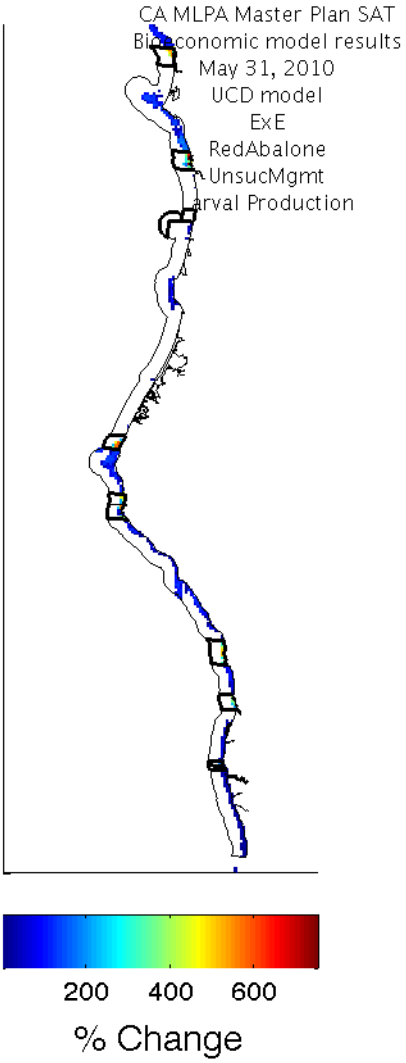

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
Unsuccessful Mgmt
Biomass
0
0.1
0.2
0.3
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
Unsuccessful Mgmt
Fishing effort
0
200
400
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
Unsuccessful Mgmt
Fishing effort
0
1
2
3
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
Unsuccessful Mgmt
Larval Recruitment
0.02 0.04 0.06 0.08 0.1
Proportion of Maximum

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
UnsucMgmt
Larval Supply
50
100
150
200
% Change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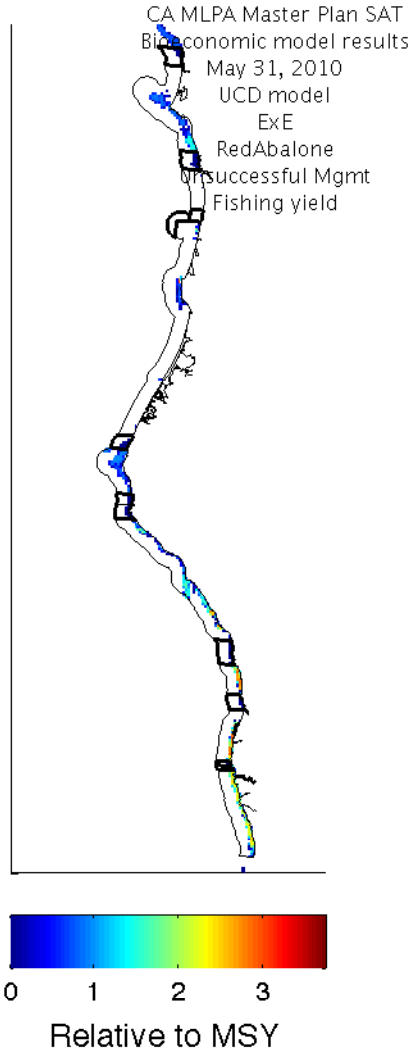
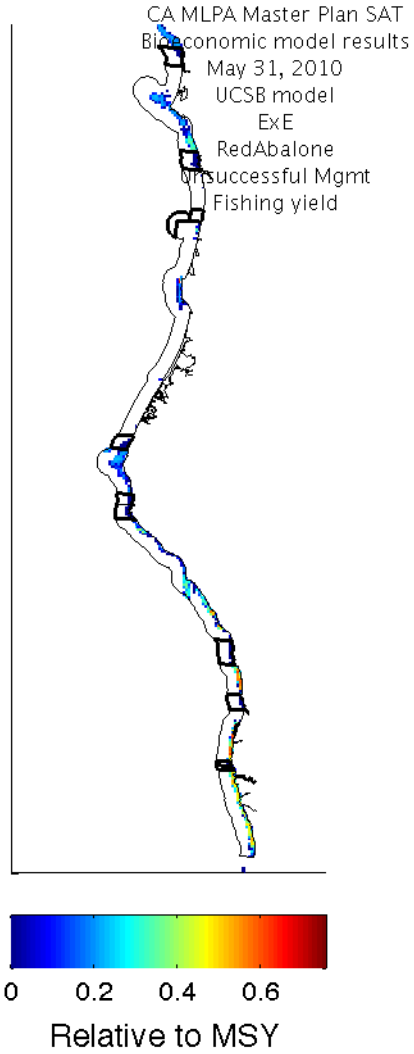
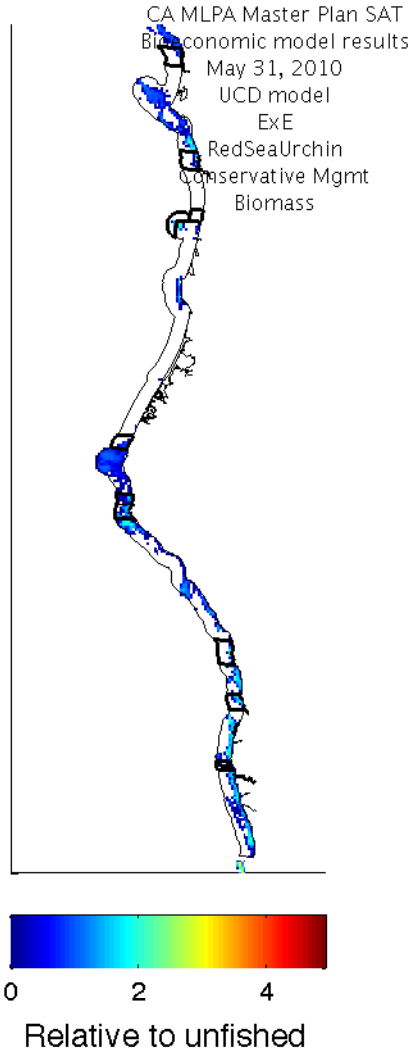
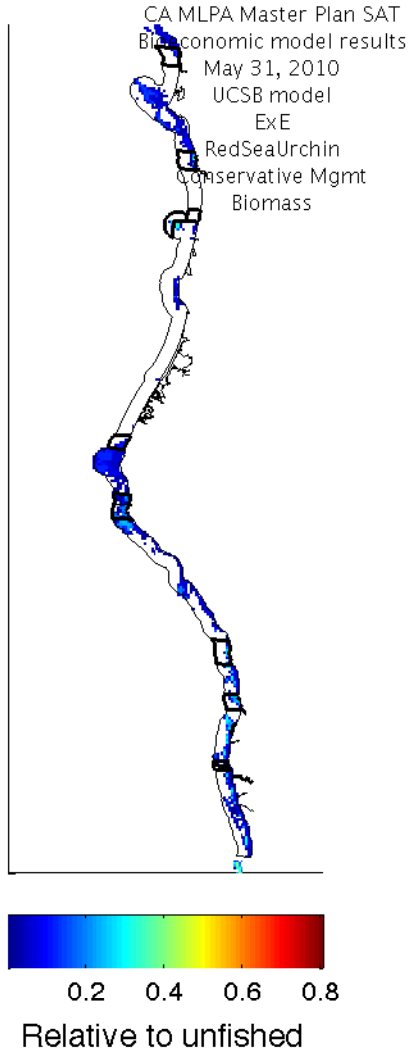
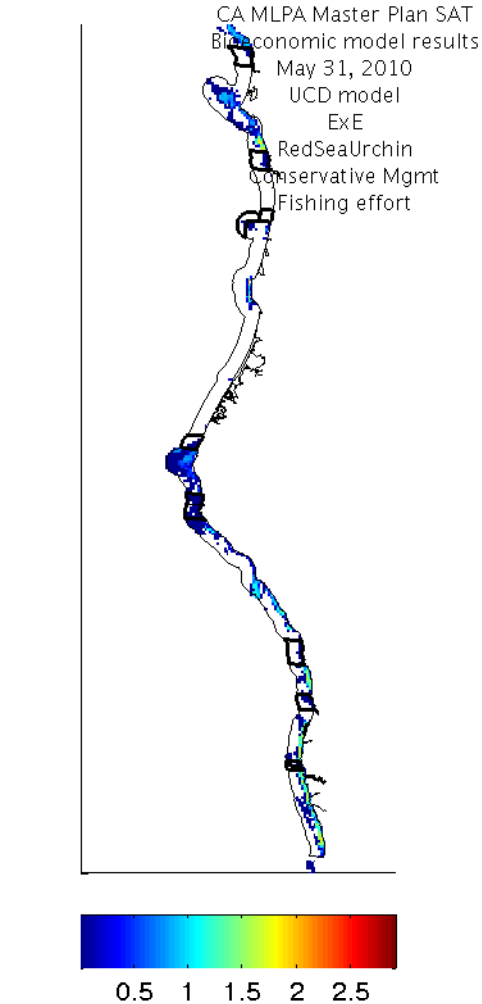
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
UnsucMgmt
arval Production
200
400
600
% Change

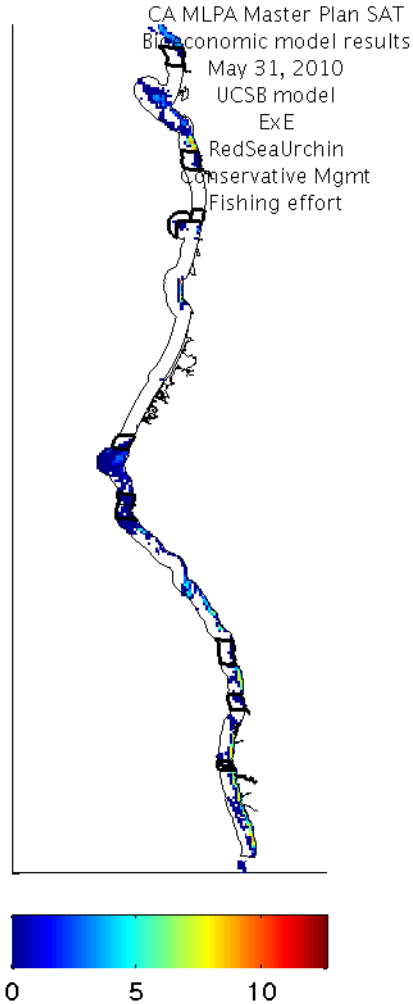

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedAbalone
Unsuccessful Mgmt
Fishing yield
0
1
2
3
Relative to MSY

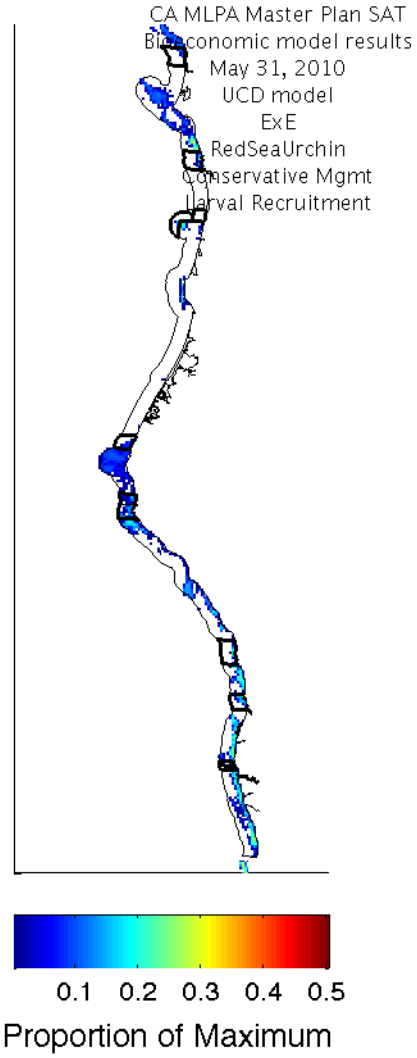

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedAbalone
Unsuccessful Mgmt
Fishing yield
0
0.2
0.4
0.6
Relative to MSY

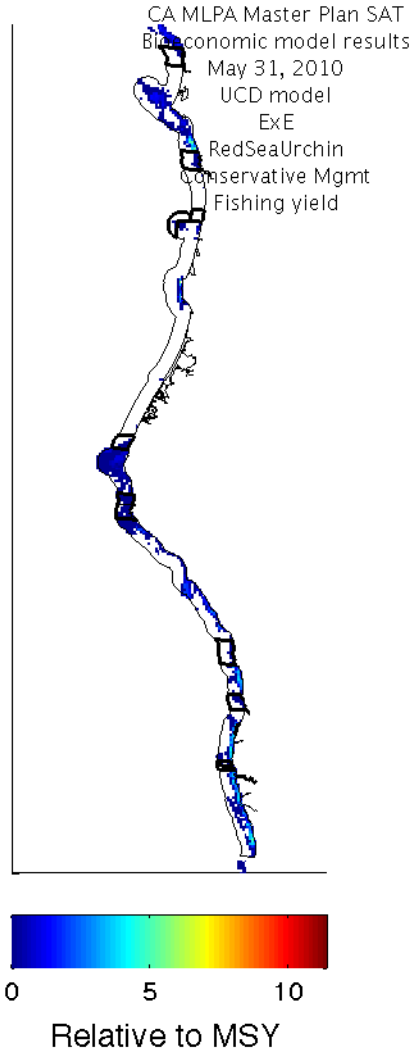

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Conservative Mgmt
Biomass
0
2
4
Relative to unfished

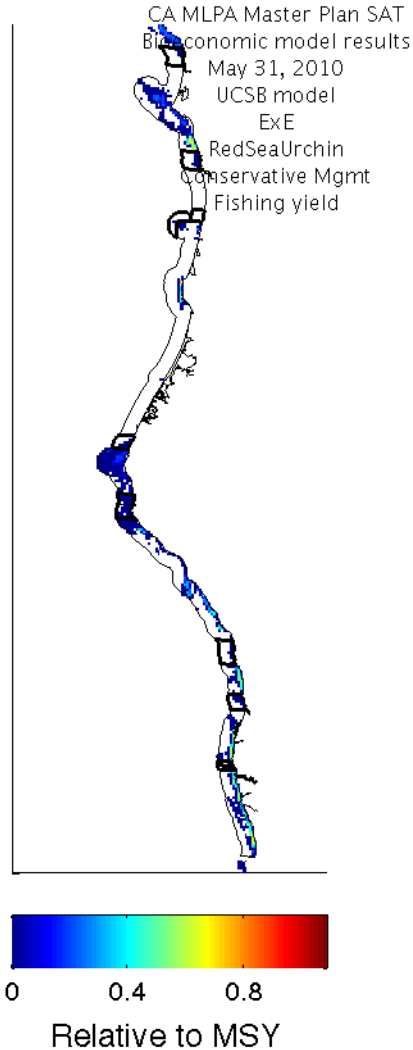

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
Conservative Mgmt
Biomass
0.2
0.4
0.6
0.8
Relative to unfished

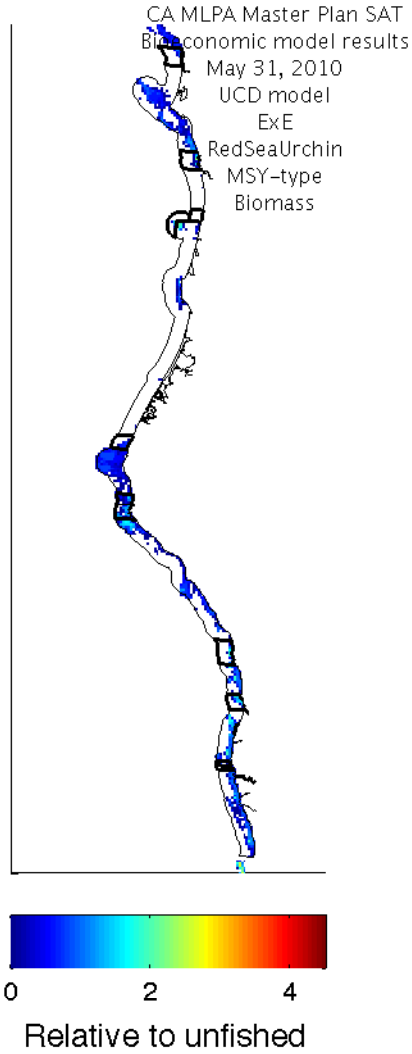

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Conservative Mgmt
Fishing effort
0.5
1
1.5
2
2.5
Relative to MSY maximum effort

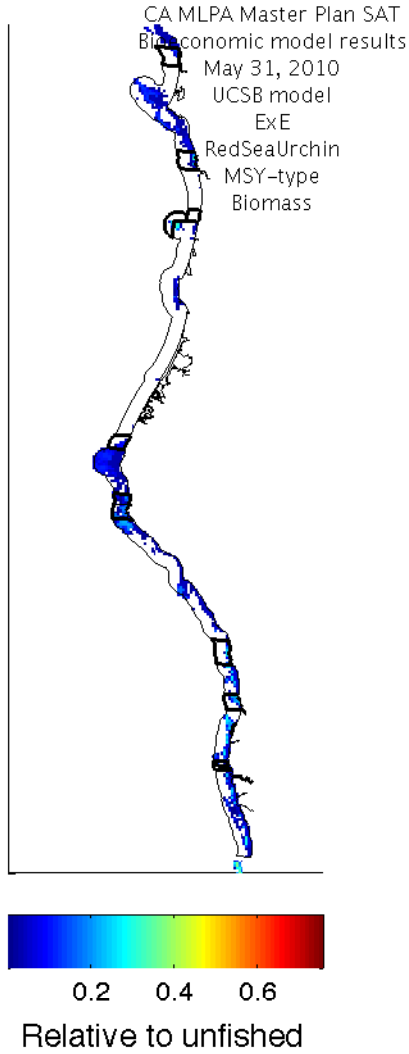

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

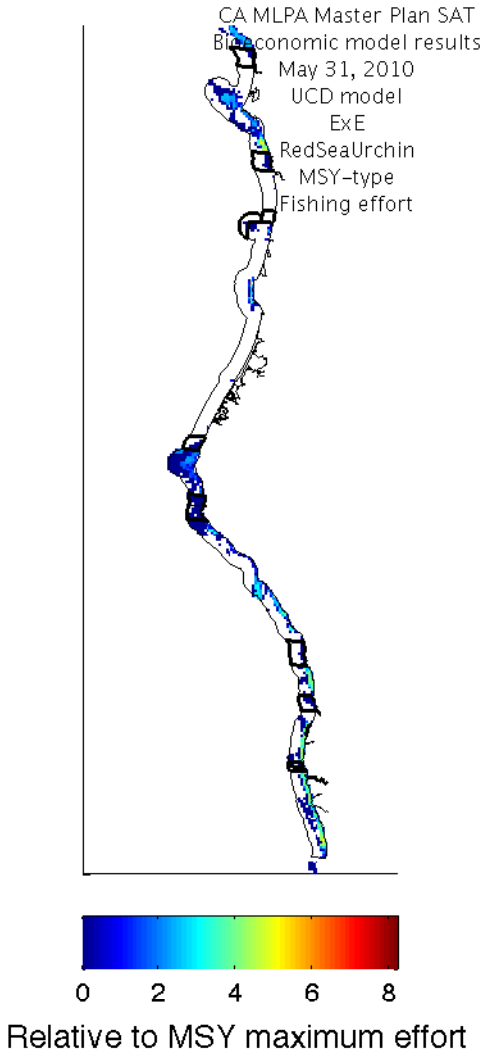

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
0.4
0.5
Proportion of Maximum

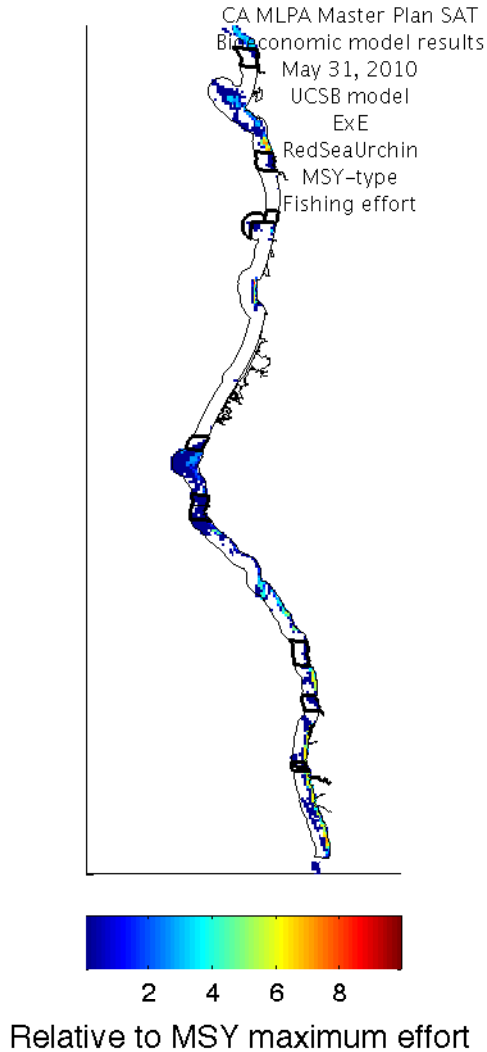

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Conservative Mgmt
Fishing yield
0
5
10
Relative to MSY

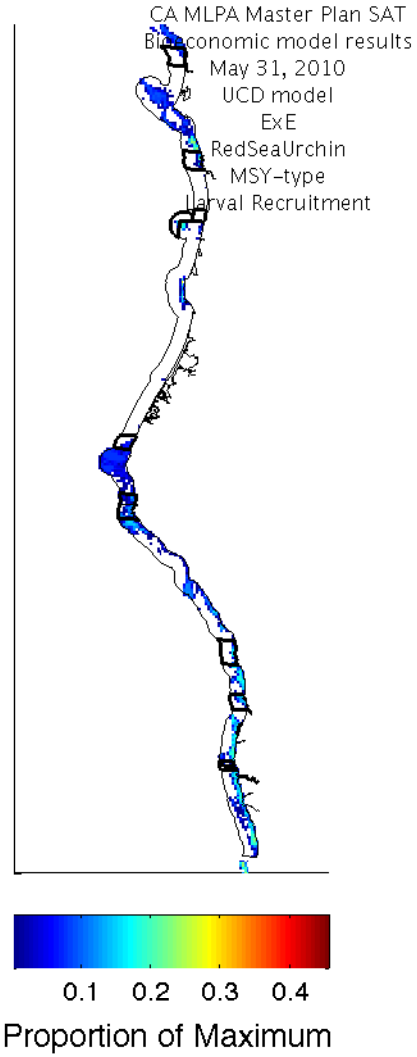

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
MSY-type
Biomass
0
2
4
Relative to unfished

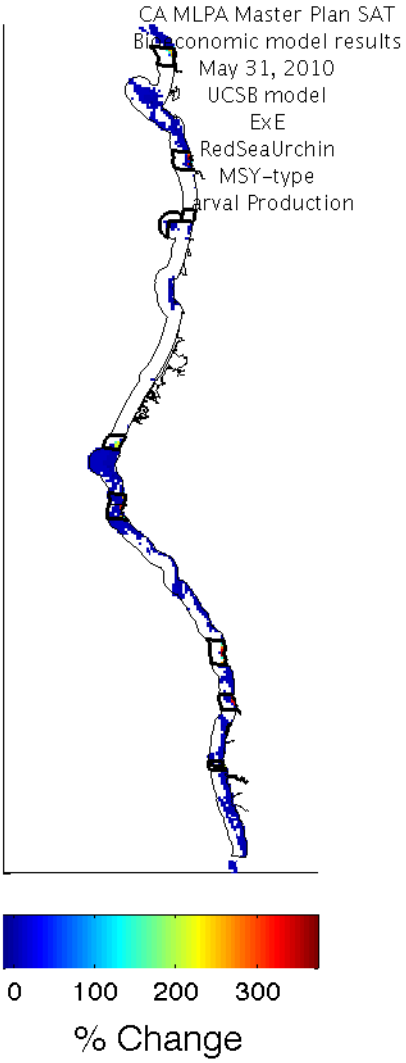

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
MSY-type
Biomass
0.2
0.4
0.6
Relative to unfished

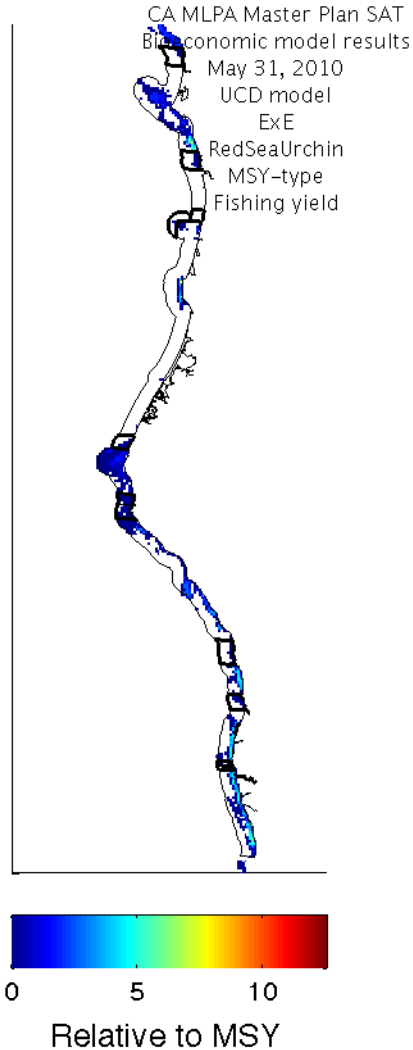

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
MSY-type
Fishing effort
0
2
4
6
8
Relative to MSY maximum effort

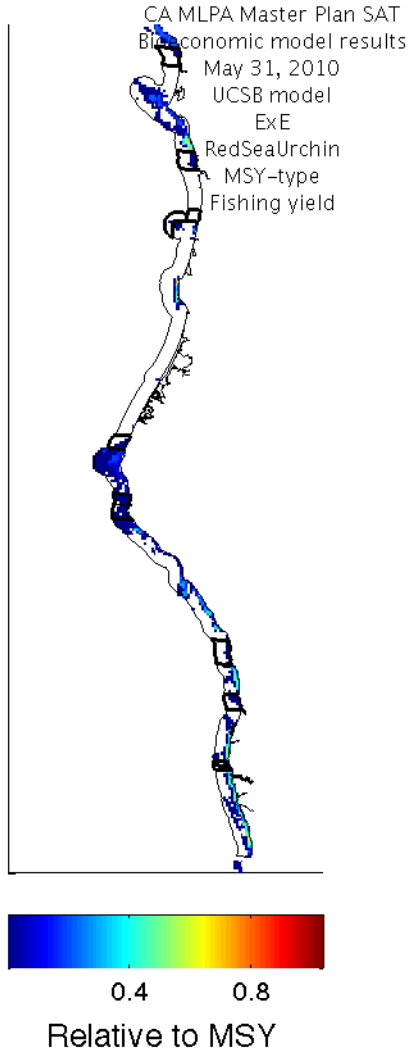

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
MSY-type
Fishing effort
2
4
6
8
Relative to MSY maximum effort

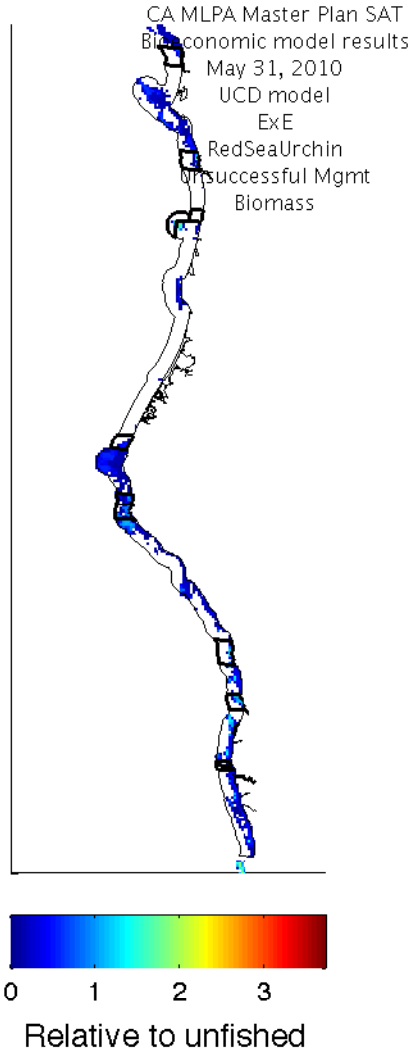

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
MSY-type
Larval Recruitment
0.1
0.2
0.3
0.4
Proportion of Maximum

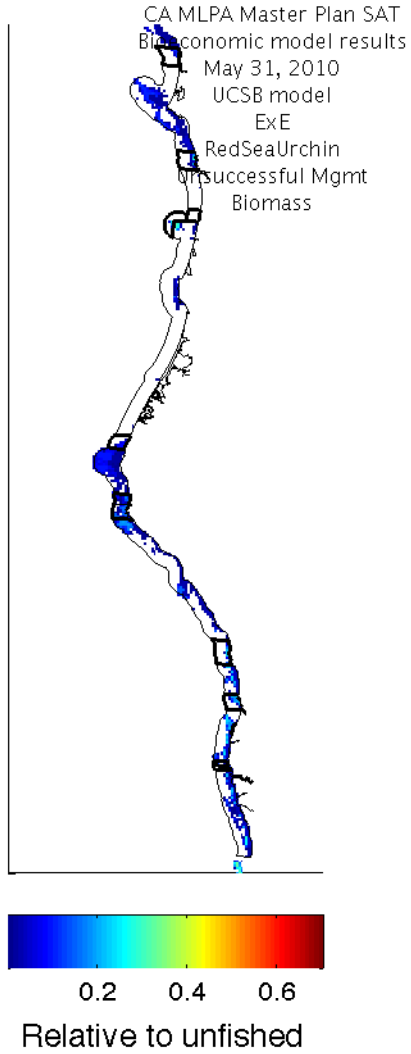
CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
MSY-type
Larval Supply
8
8.5
9
9.5
% Change

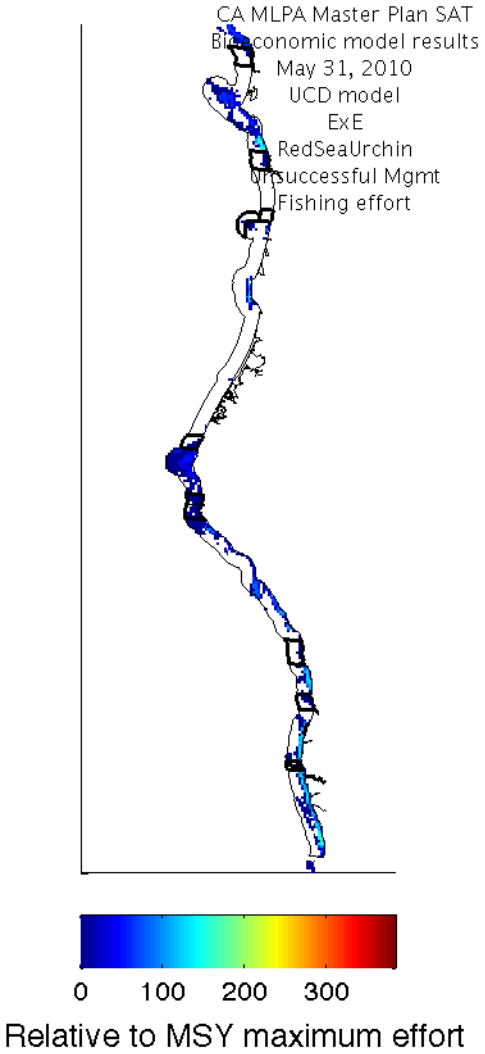

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
MSY-type
arval Production
0
100
200
300
% Change

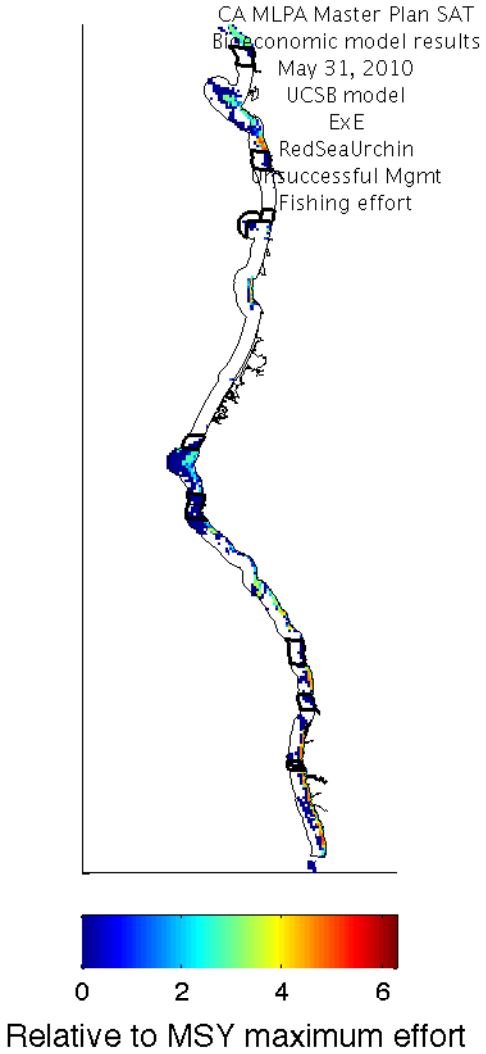

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
MSY-type
Fishing yield
0
5
10
Relative to MSY

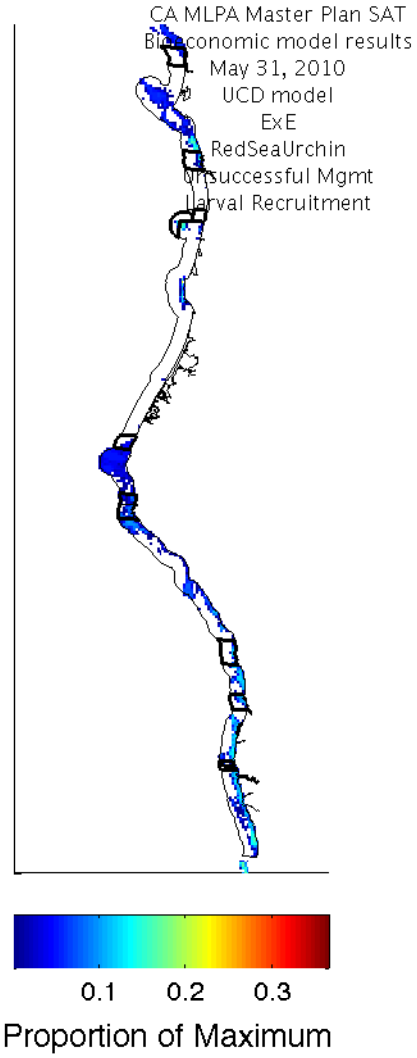

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
MSY-type
Fishing yield
0.4
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Unsuccessful Mgmt
Biomass
0
1
2
3
Relative to unfished

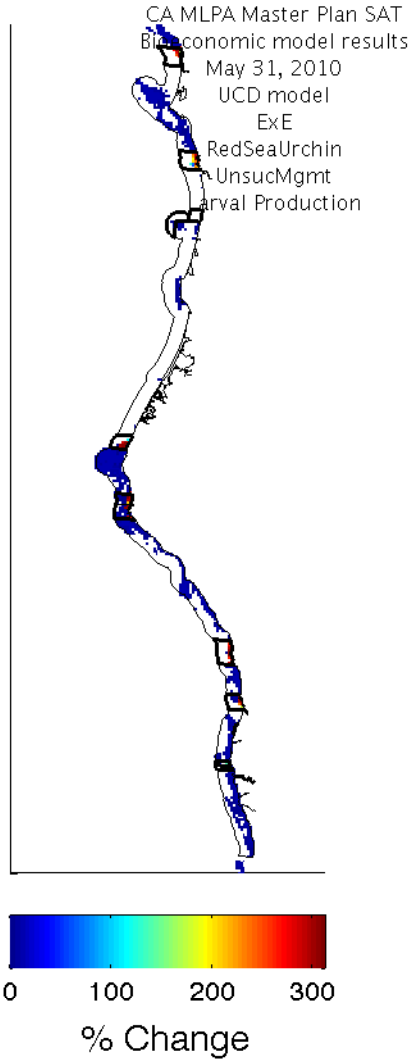

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
Unsuccessful Mgmt
Biomass
0.2
0.4
0.6
Relative to unfished

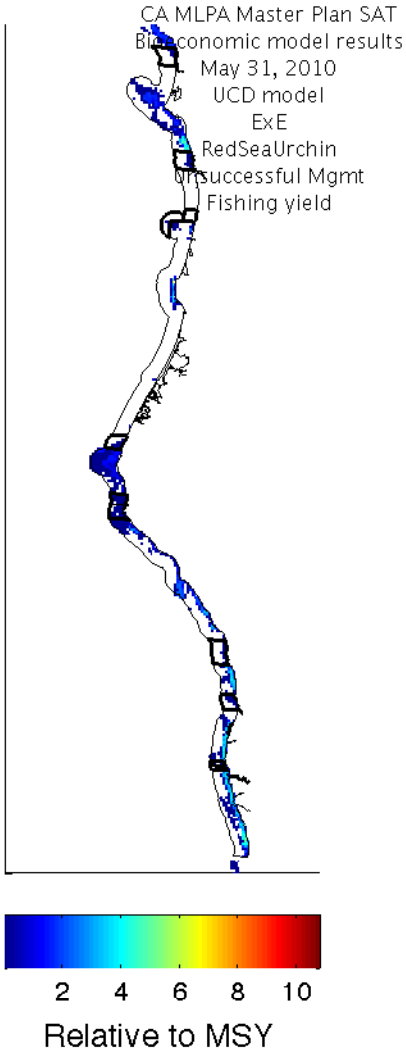

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Unsuccessful Mgmt
Fishing effort
0
100
200
300
Relative to MSY maximum effort

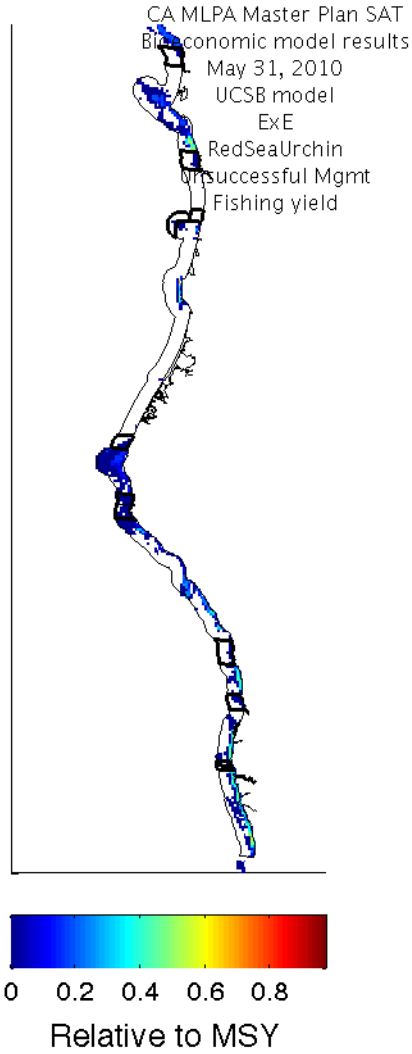

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
Unsuccessful Mgmt
Fishing effort
0
2
4
6
Relative to MSY maximum effort

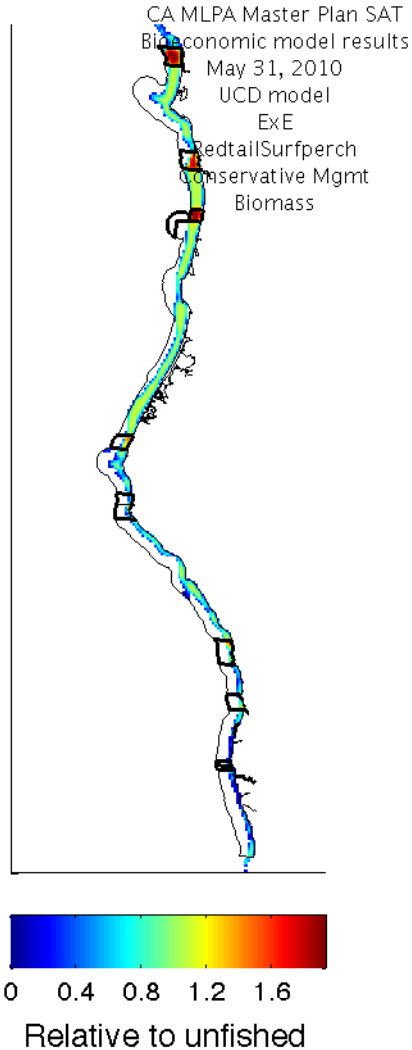

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Unsuccessful Mgmt
Larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

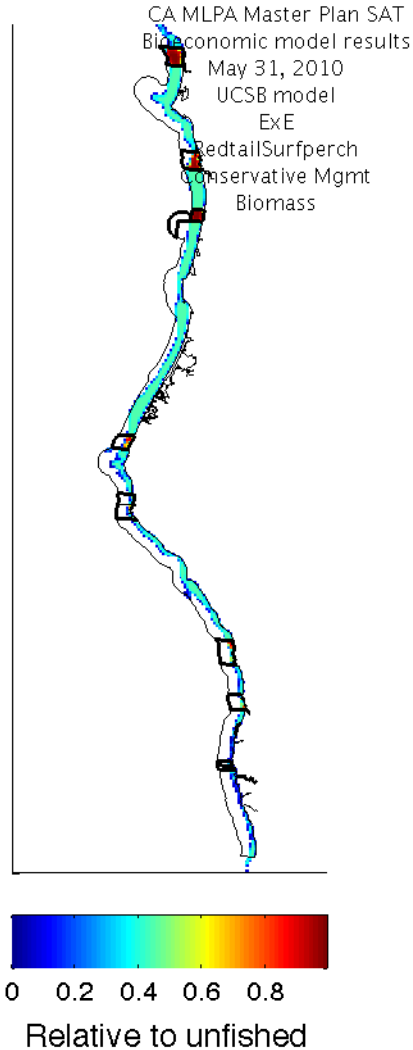
CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
UnsucMgmt
Larval Supply
13
14
15
16
% Change

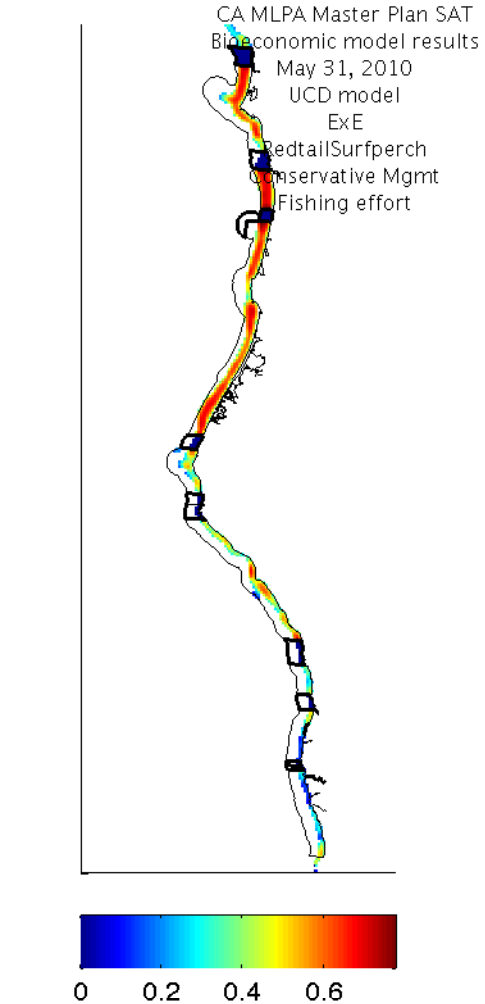

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
UnsucMgmt
arval Production
0
100
200
300
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
2
4
6
8
10
Relative to MSY

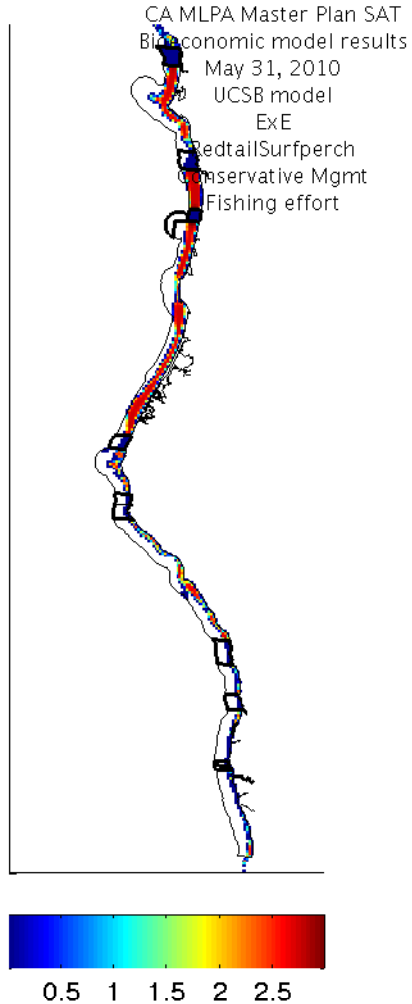

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
0
0.2
0.4
0.6
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
Conservative Mgmt
Biomass
0
0.4
0.8
1.2
1.6
Relative to unfished

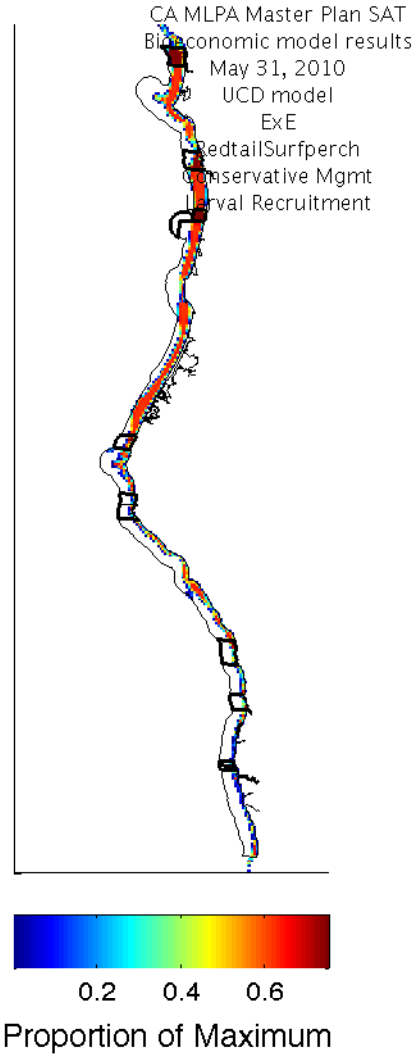

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

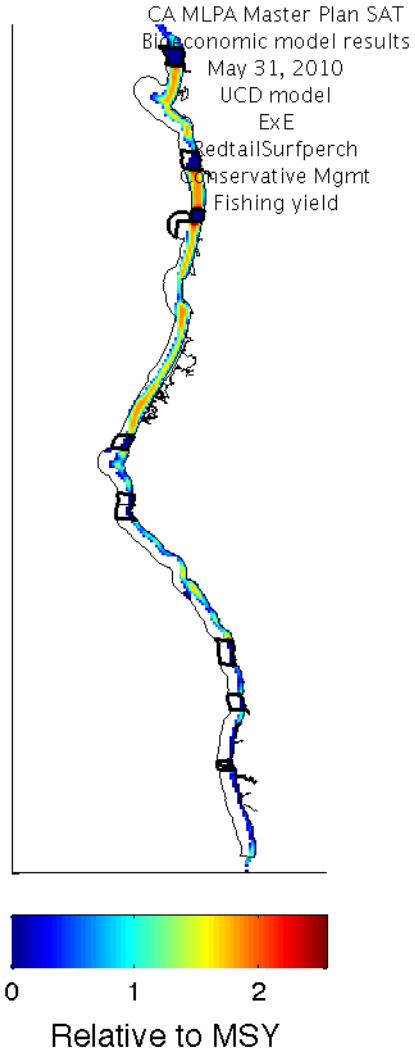


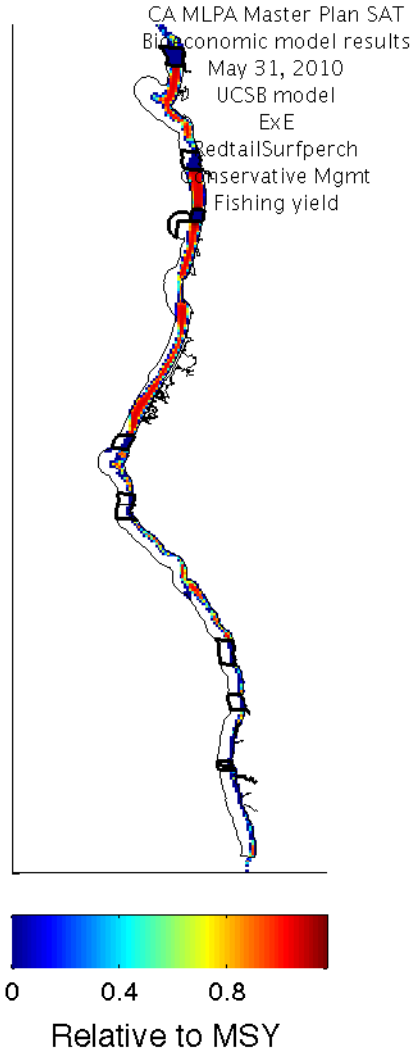
Relative to MSY maximum effort

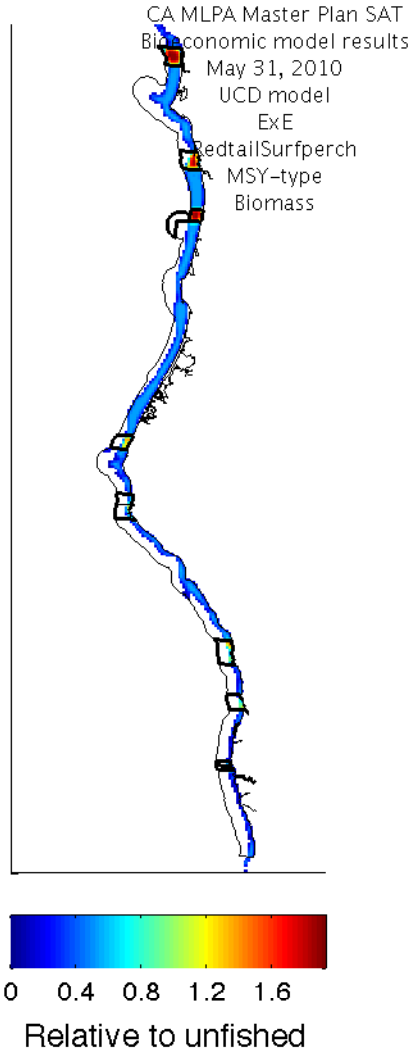


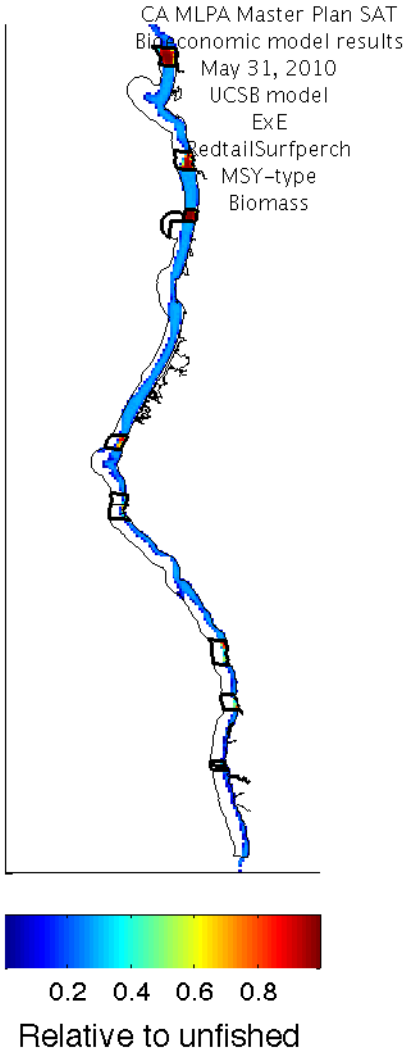
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
Conservative Mgmt
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum

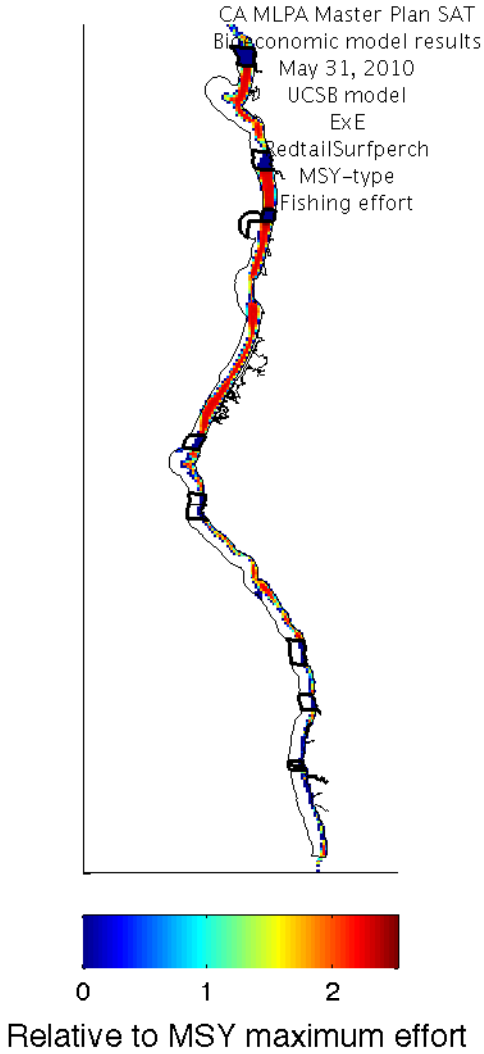

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
Conservative Mgmt
Fishing yield
0
1
2
Relative to MSY

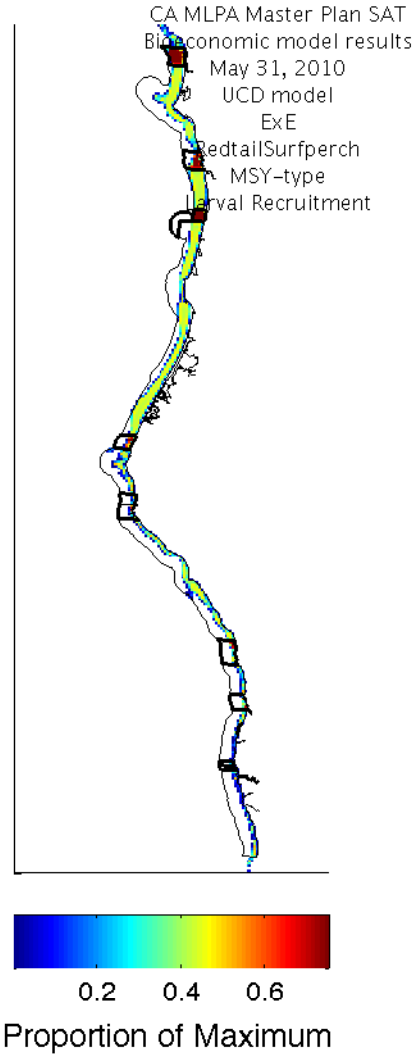

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY

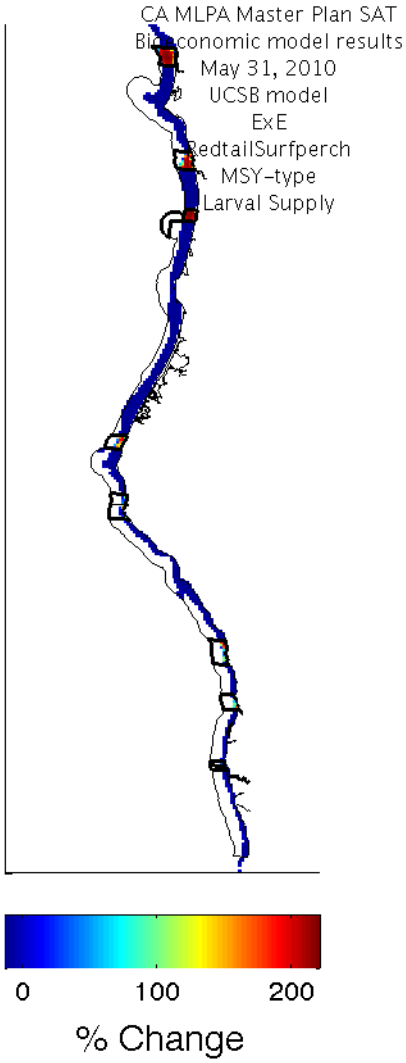

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
MSY-type
Biomass
0
0.4
0.8
1.2
1.6
Relative to unfished

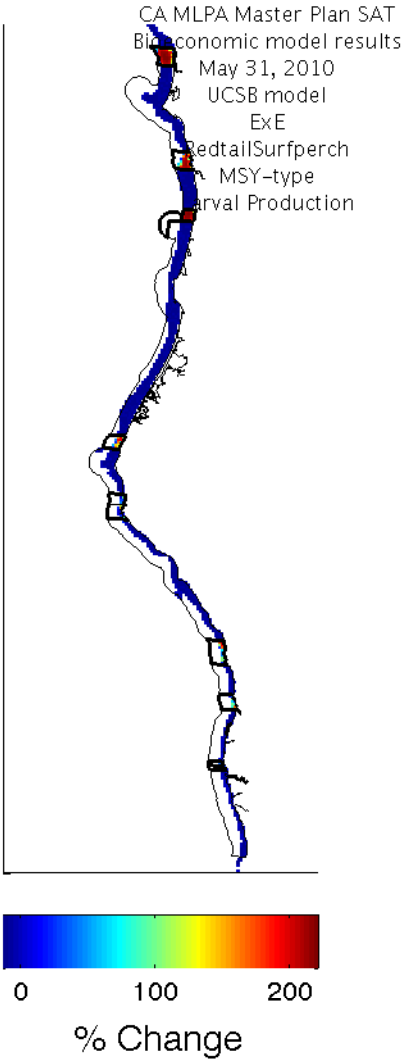

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
MSY-type
Biomass
0.2
0.4
0.6
0.8
Relative to unfished

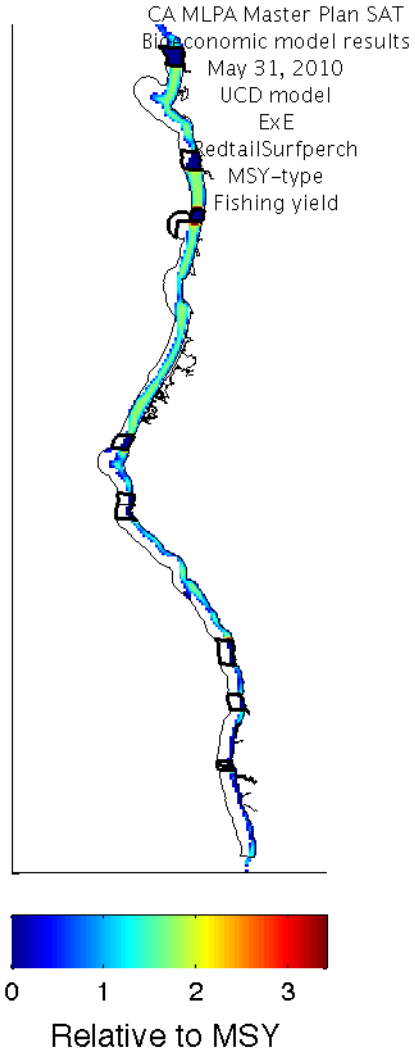
CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
MSY-type
Fishing effort
0.5
1
1.5
2
Relative to MSY maximum effort

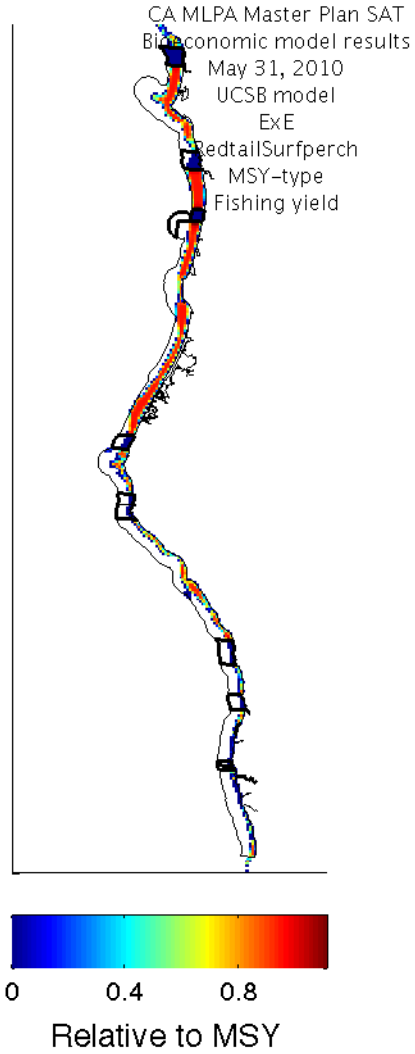

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
MSY-type
Fishing effort
0
1
2
Relative to MSY maximum effort

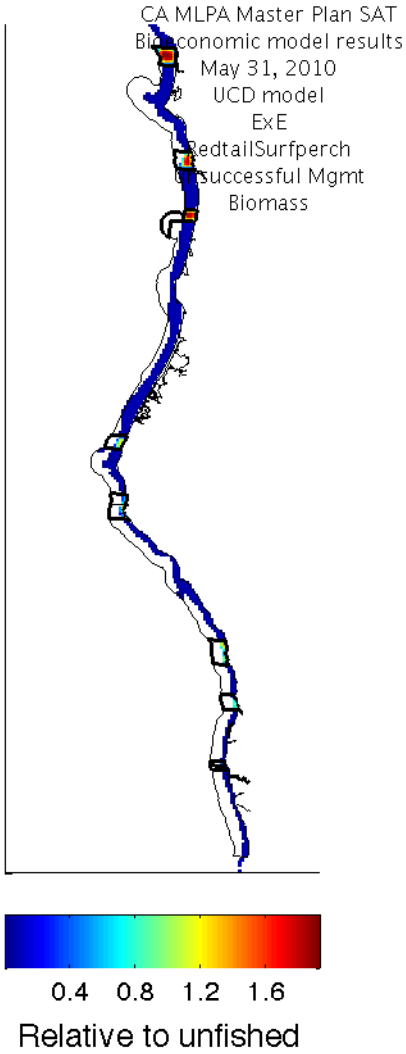

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
MSY-type
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum

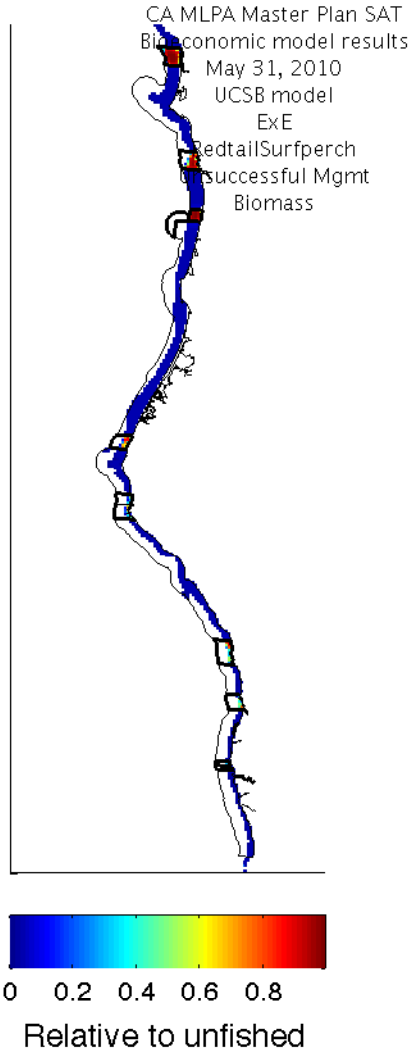

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
MSY-type
Larval Supply
0
100
200
% Change

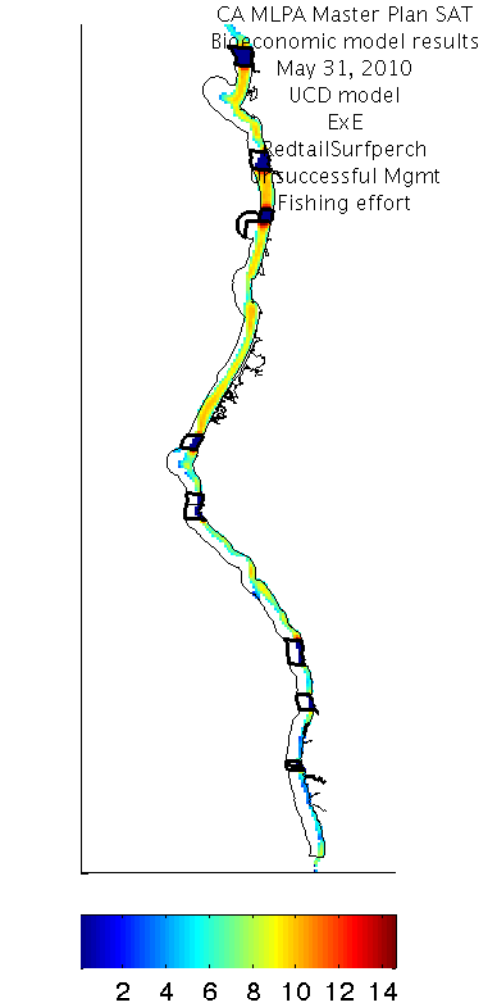

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
MSY-type
Larval Production
0
100
200
% Change

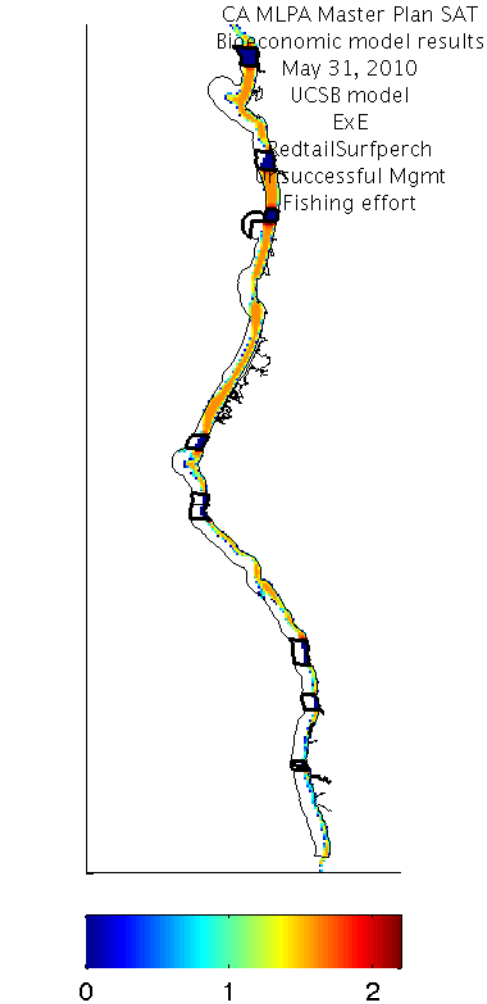

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
MSY-type
Fishing yield
0
1
2
3
Relative to MSY

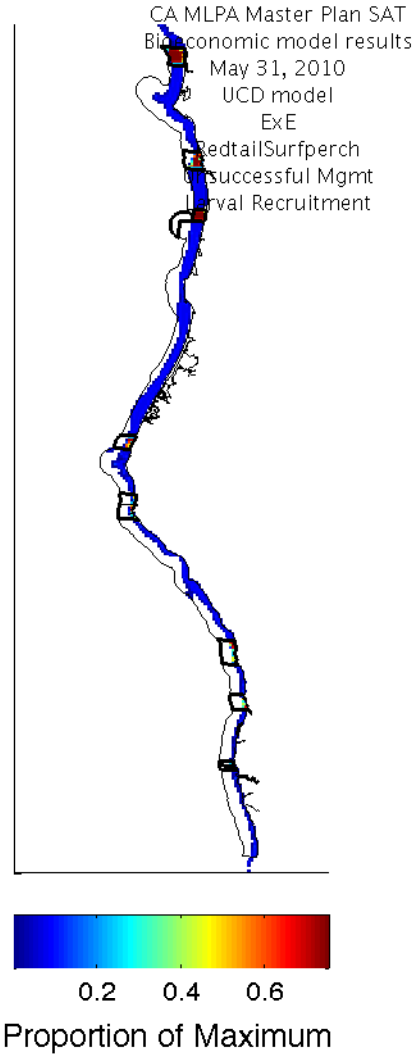

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

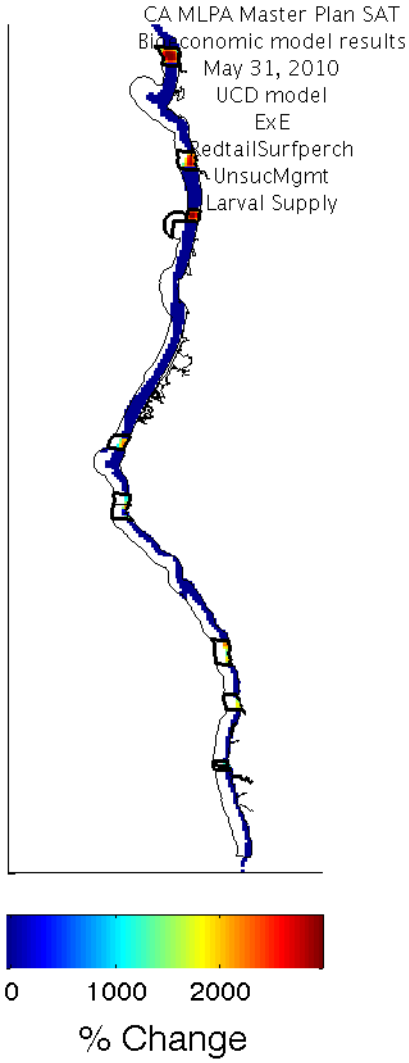

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
Unsuccessful Mgmt
Biomass
0.4
0.8
1.2
1.6
Relative to unfished

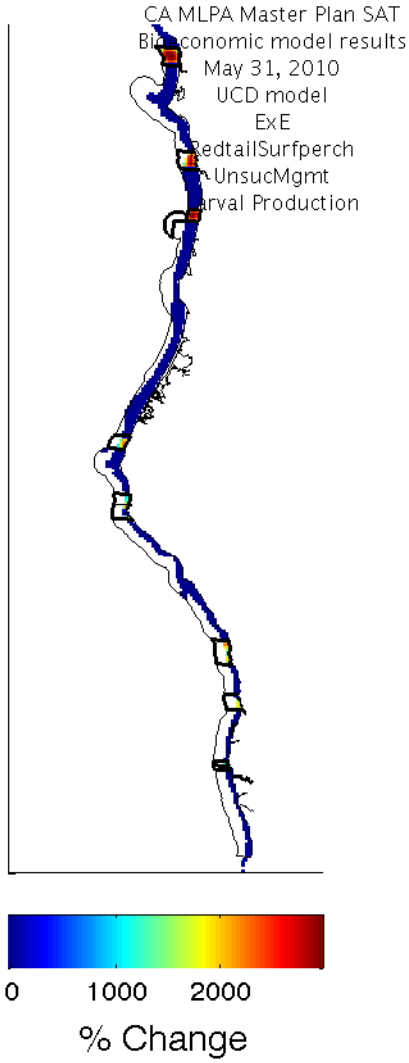

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
Unsuccessful Mgmt
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

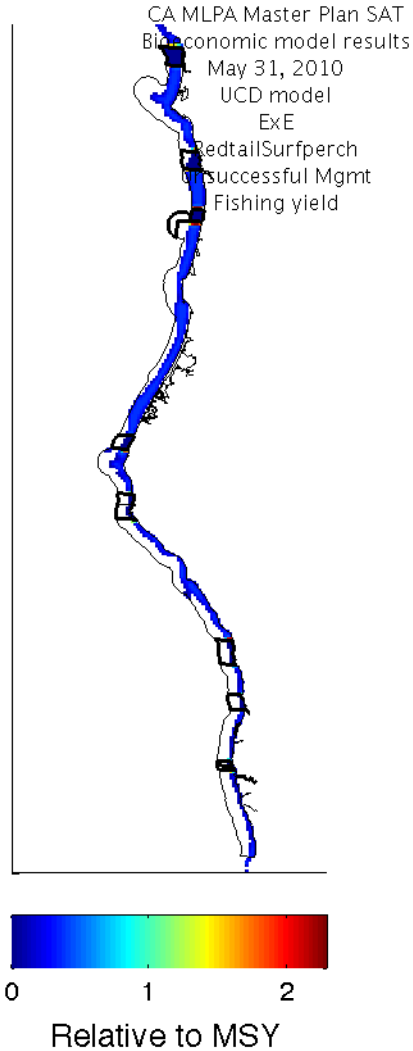

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
Unsuccessful Mgmt
Fishing effort
2 4 6 8 10 12 14
Relative to MSY maximum effort

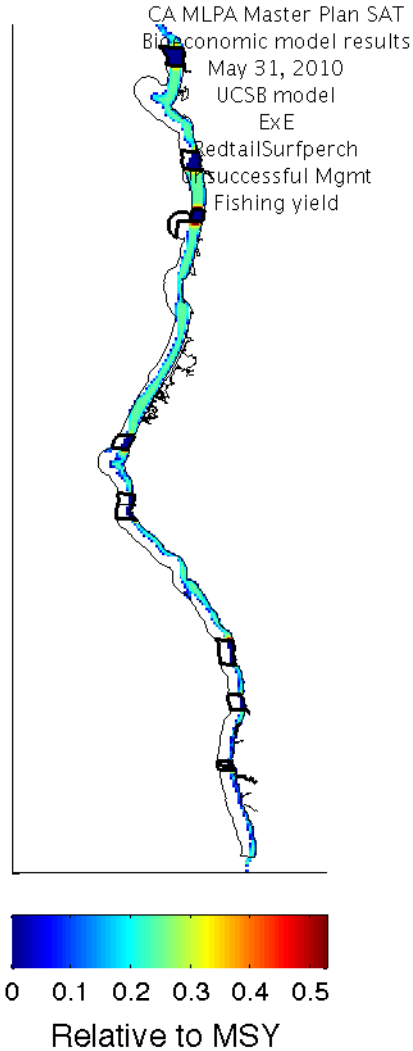

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
Unsuccessful Mgmt
Fishing effort
0 1 2
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
Successful Mgmt
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
UnsucMgmt
Larval Supply
0
1000
2000
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
UnsucMgmt
Larval Production
0
1000
2000
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExE
RedtailSurfperch
Unsuccessful Mgmt
Fishing yield
0
1
2
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExE
RedtailSurfperch
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
0.3
0.4
0.5
Relative to MSY