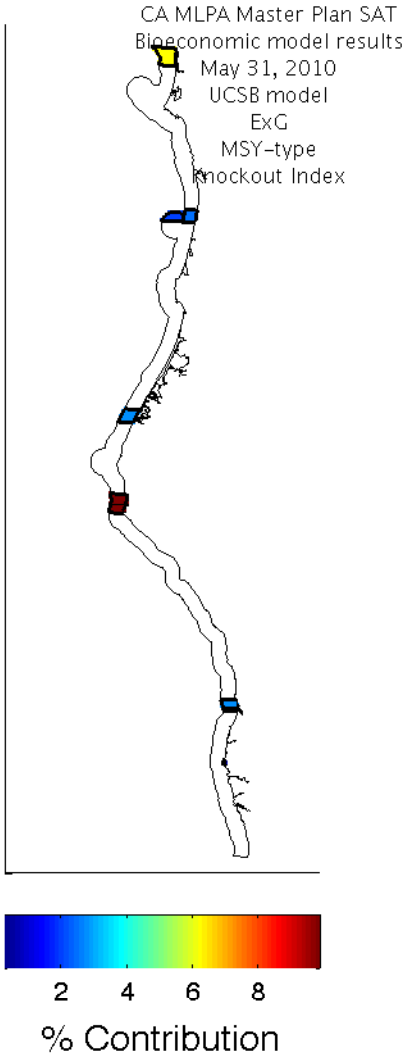
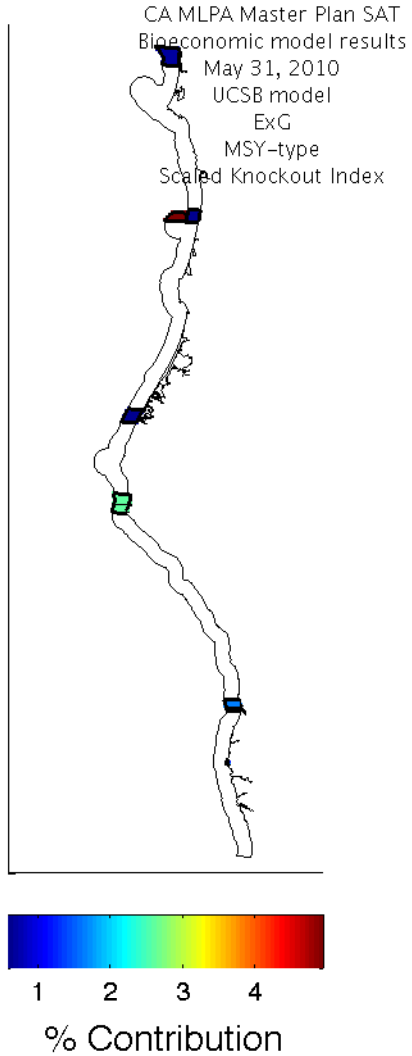
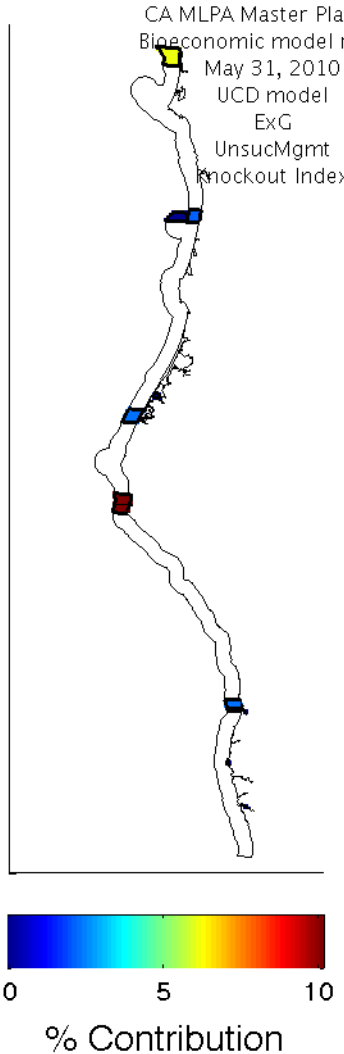

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
MSY-type
Knockout Index
2
4
6
8
% Contribution


CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
MSY-type
Scaled Knockout Index
1
2
3
4
% Contribution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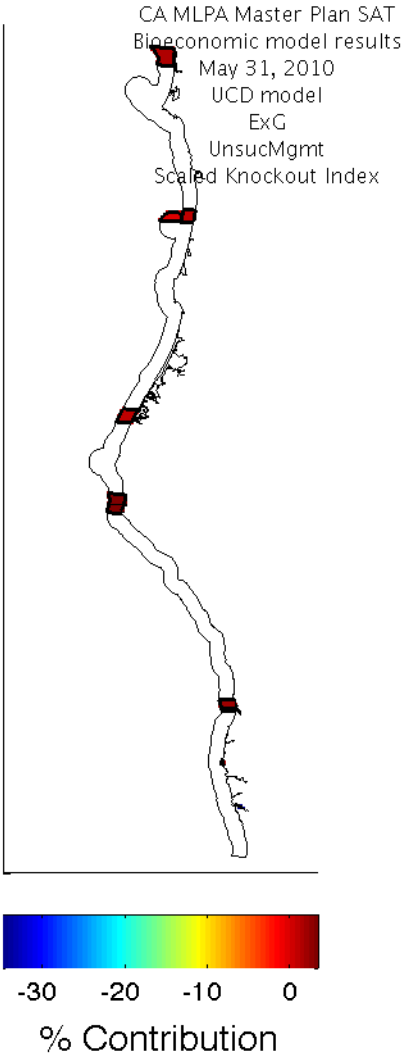
Bioeconomic model results
May 31, 2010
UCD model
ExG
UnsucMgmt
Knockout Index
0
5
10
% Contribution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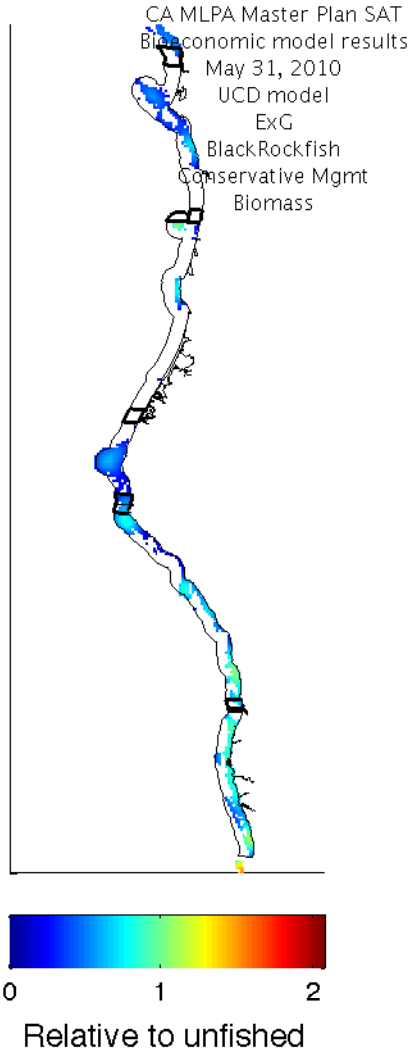
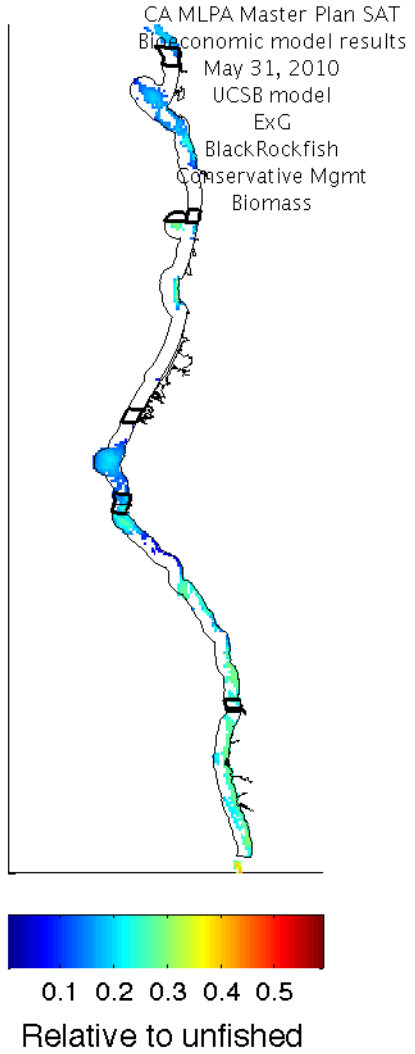
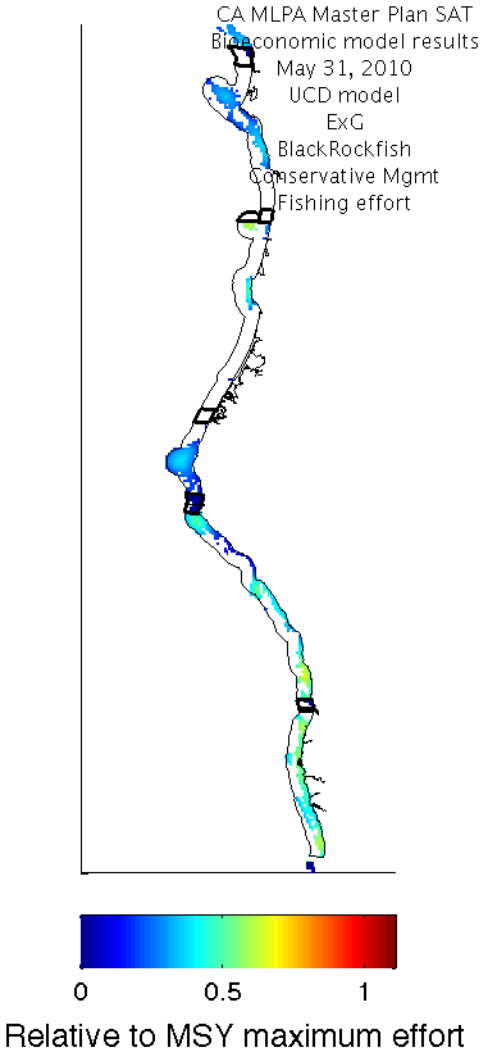
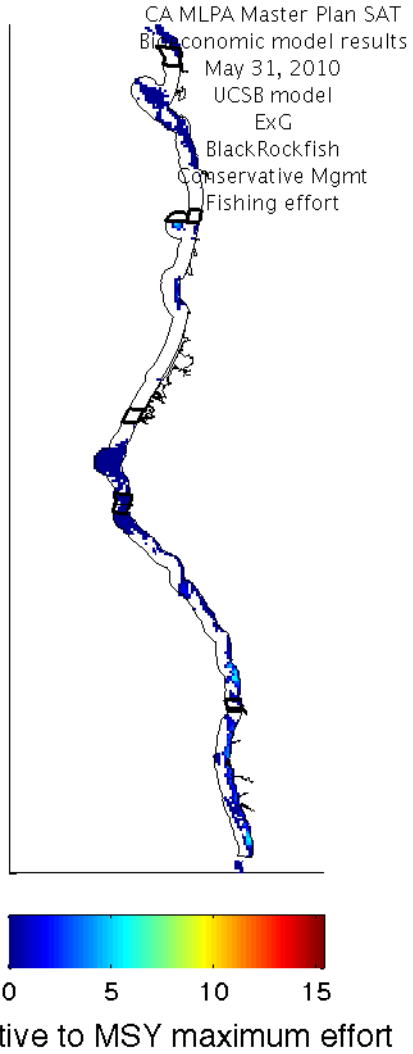
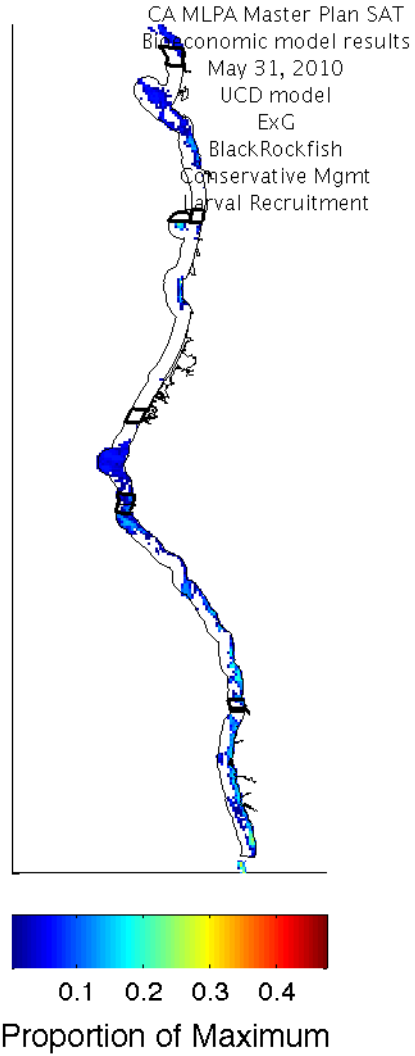
Bioeconomic model results
May 31, 2010
UCD model
ExG
UnsucMgmt
Scaled Knockout Index
-30
-20
-10
0
% Contribution

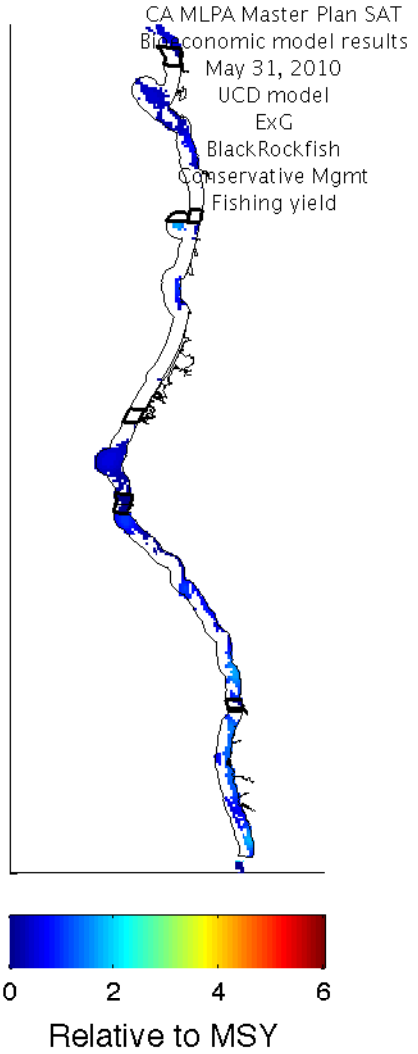

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Conservative Mgmt
Biomass
0
1
2
Relative to unfished

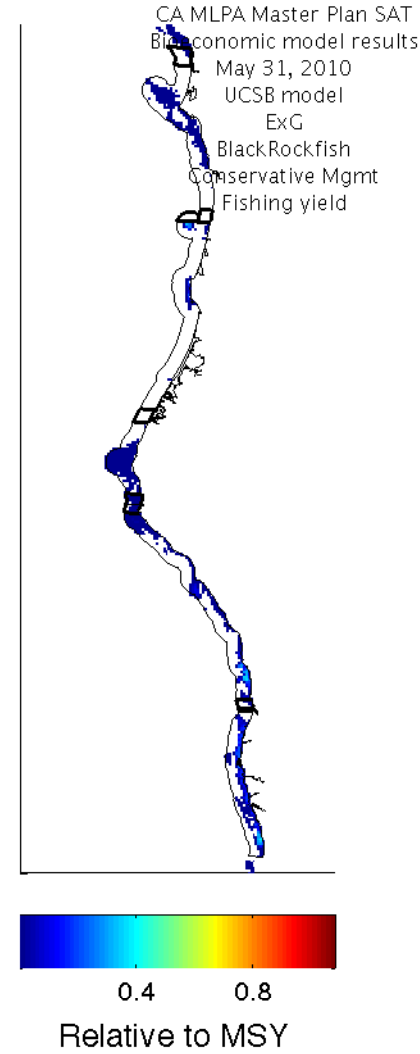

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
Conservative Mgmt
Biomass
0.1 0.2 0.3 0.4 0.5
Relative to unfished

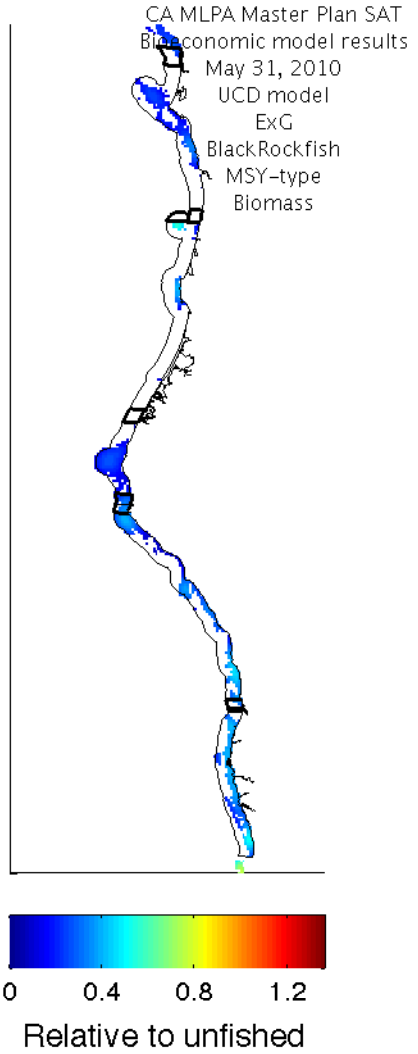

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Conservative Mgmt
Fishing effort
0
0.5
1
Relative to MSY maximum effort

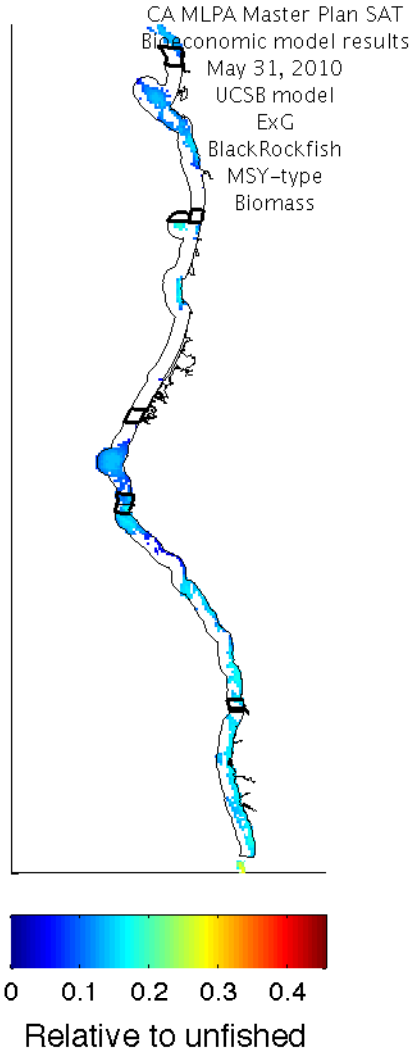

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
Conservative Mgmt
Fishing effort
0
5
10
15
Relative to MSY maximum effort

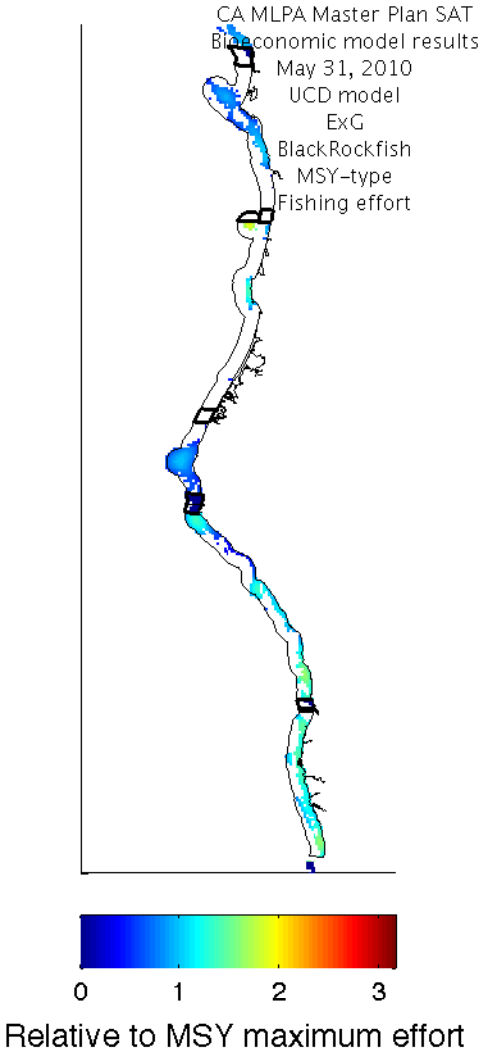

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
0.4
Proportion of Maximum

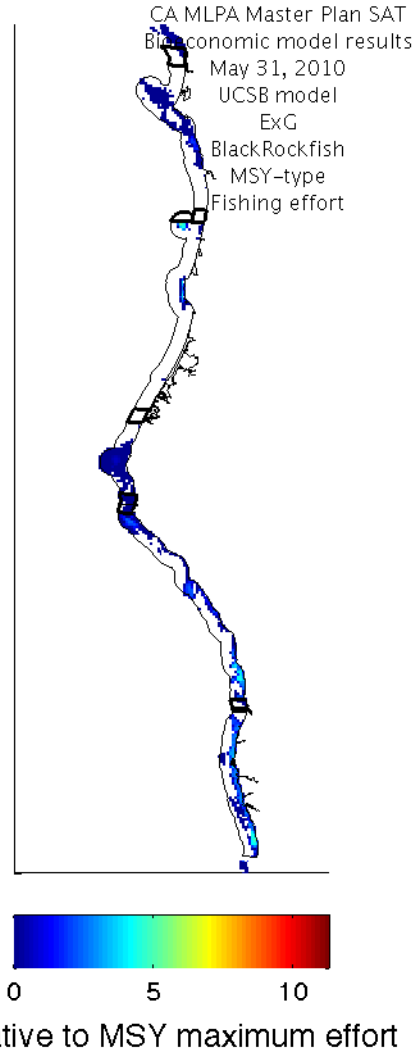

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Conservative Mgmt
Fishing yield
0
2
4
6
Relative to MSY

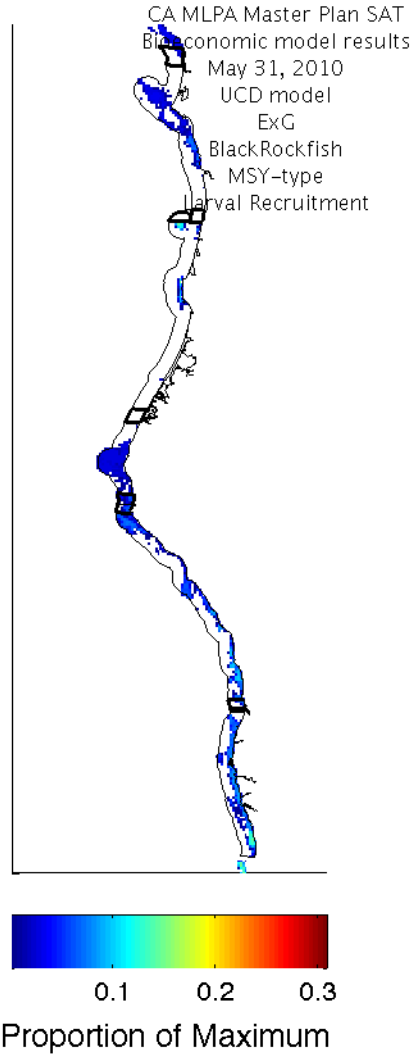

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
Conservative Mgmt
Fishing yield
0.4
0.8
Relative to MSY

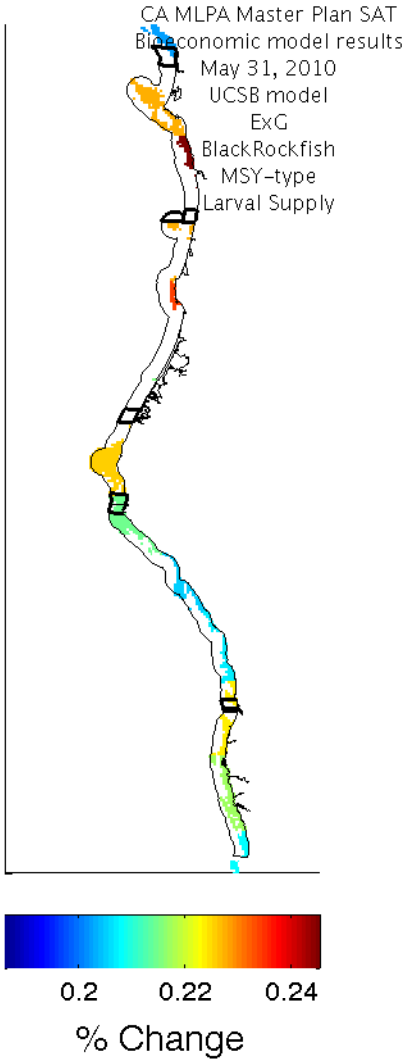

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
MSY-type
Biomass
0
0.4
0.8
1.2
Relative to unfished

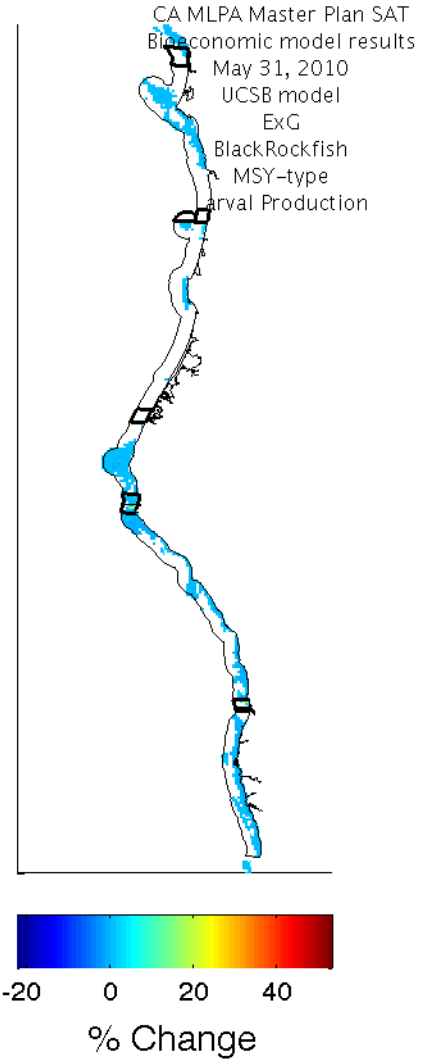

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
MSY-type
Biomass
0
0.1
0.2
0.3
0.4
Relative to unfished

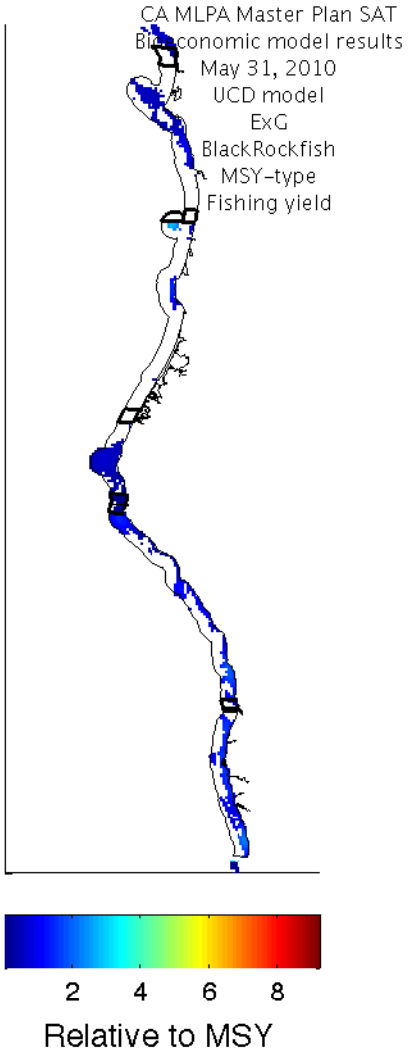

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
MSY-type
Fishing effort
0
1
2
3
Relative to MSY maximum effort

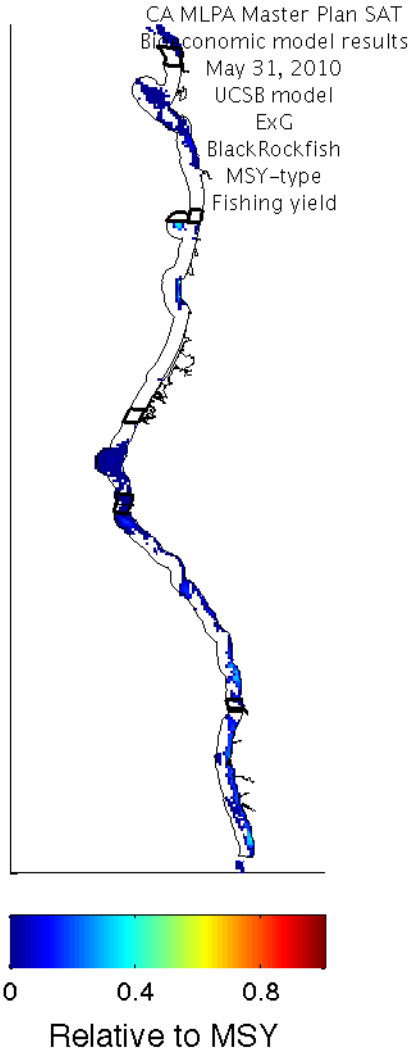

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
MSY-type
Fishing effort
0
5
10
Relative to MSY maximum effort

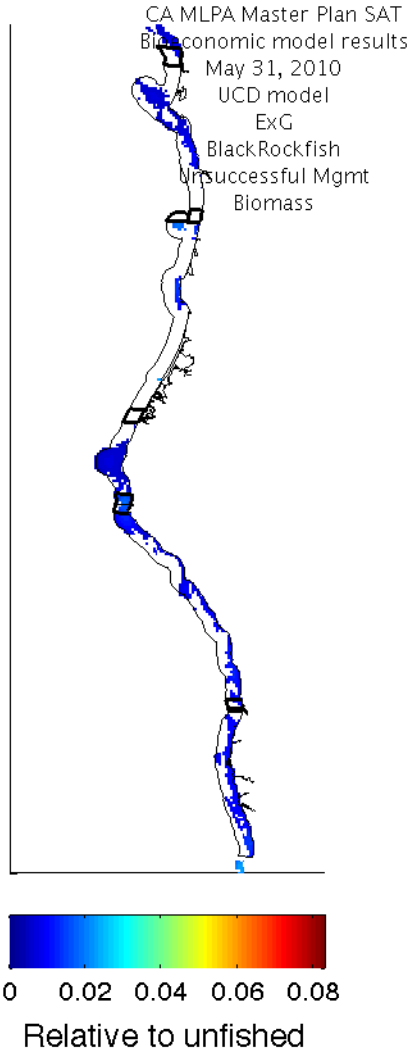

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
MSY-type
larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

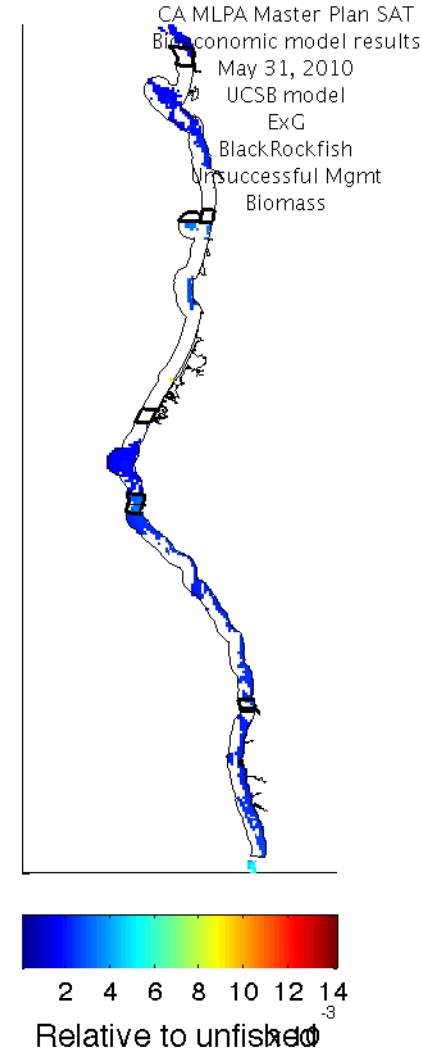

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
MSY-type
Larval Supply
0.2
0.22
0.24
% Change

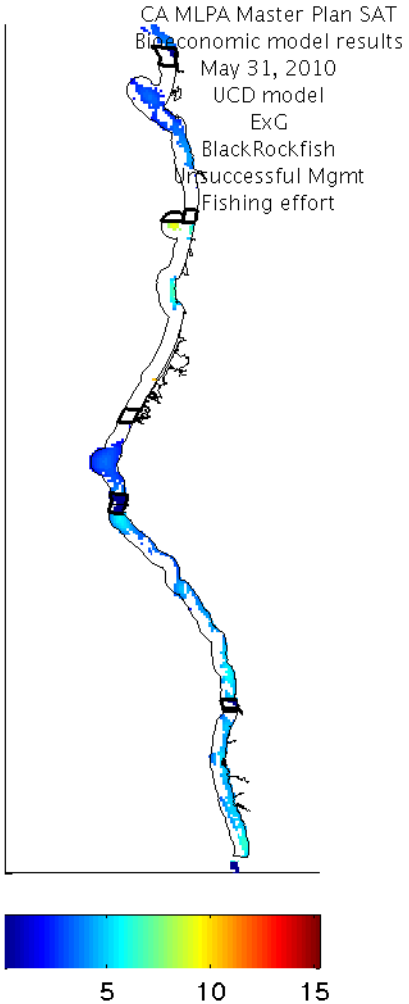

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
MSY-type
arval Production
-20
0
20
40
% Change

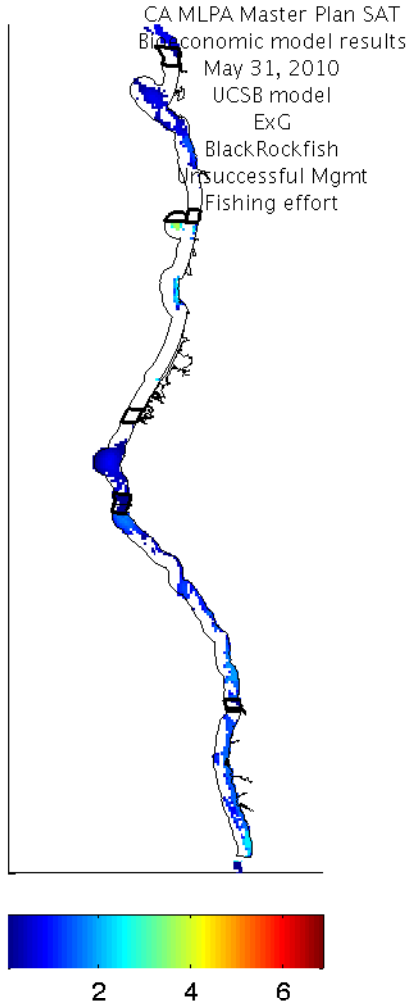

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
MSY-type
Fishing yield
2
4
6
8
Relative to MSY

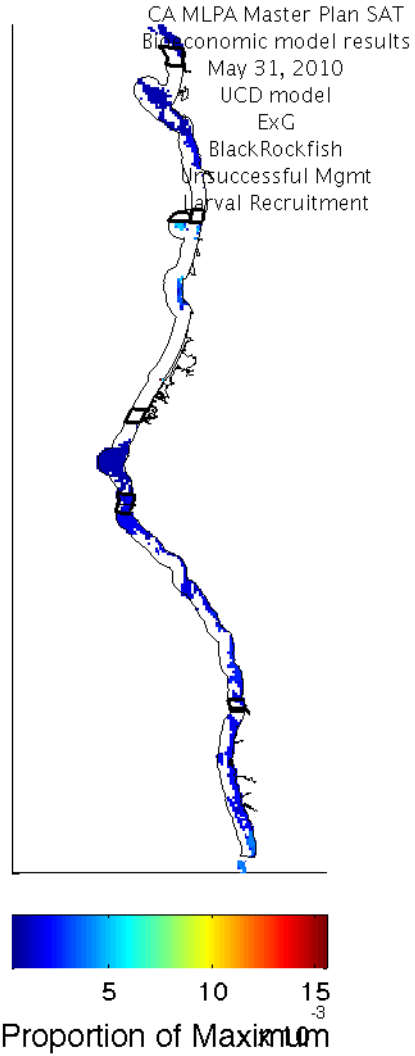

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

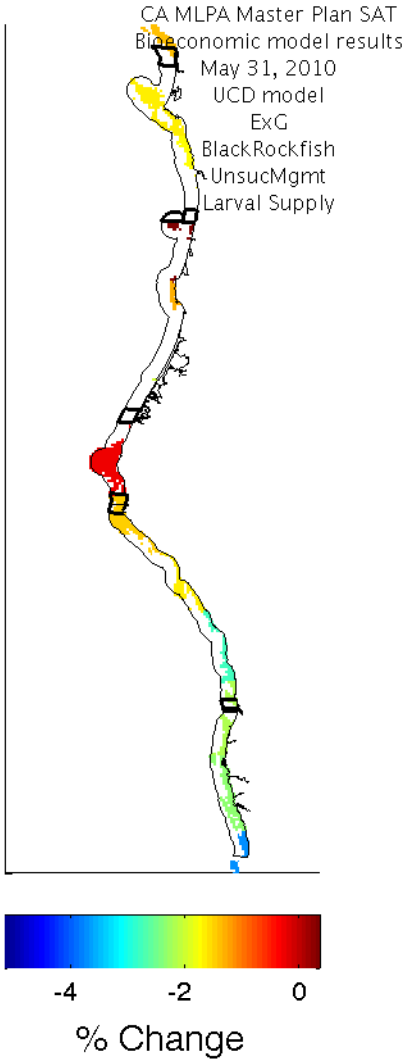

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Unsuccessful Mgmt
Biomass
0
0.02
0.04
0.06
0.08
Relative to unfished

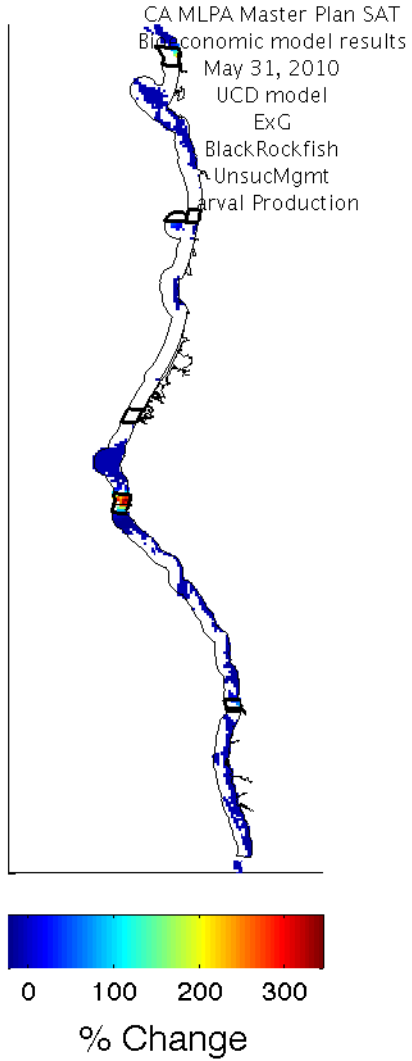

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
Unsuccessful Mgmt
Biomass
2
4
6
8
10
12
14
x 10-3
Relative to unfished

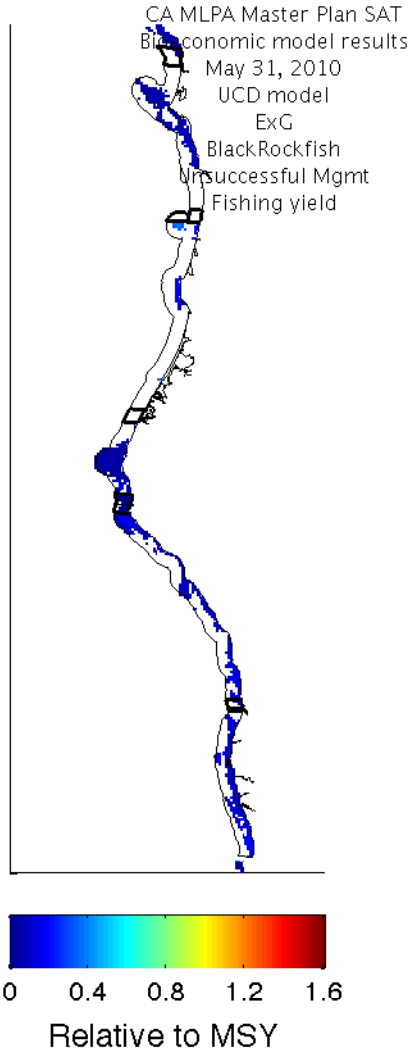

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Unsuccessful Mgmt
Fishing effort
5
10
15
Relative to MSY maximum effort

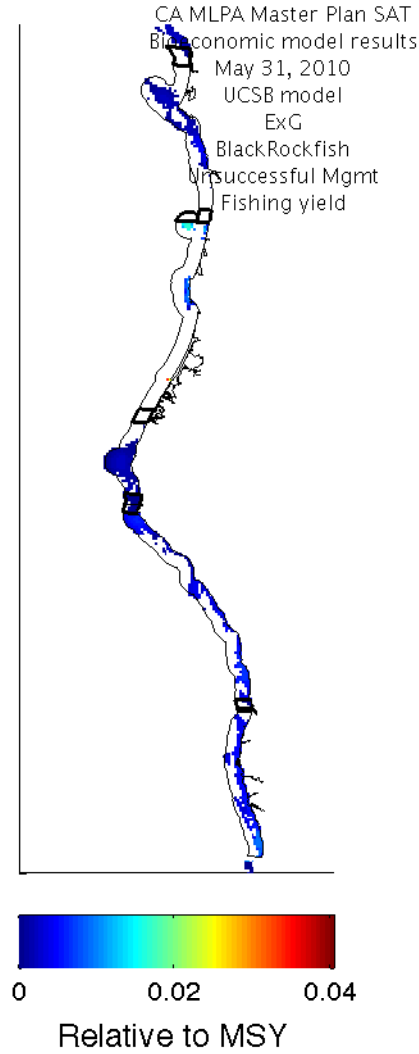

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
Unsuccessful Mgmt
Fishing effort
2
4
6
Relative to MSY maximum effort

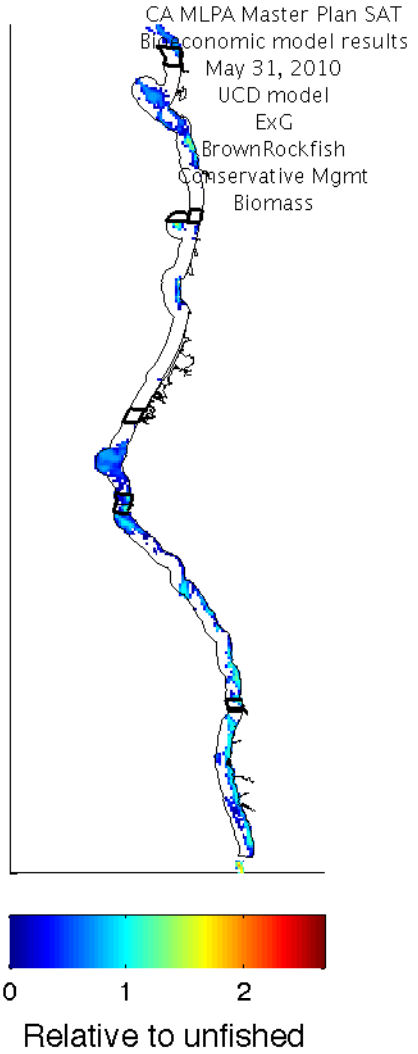

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Unsuccessful Mgmt
Larval Recruitment
5
10
15
-3
Proportion of Maximum

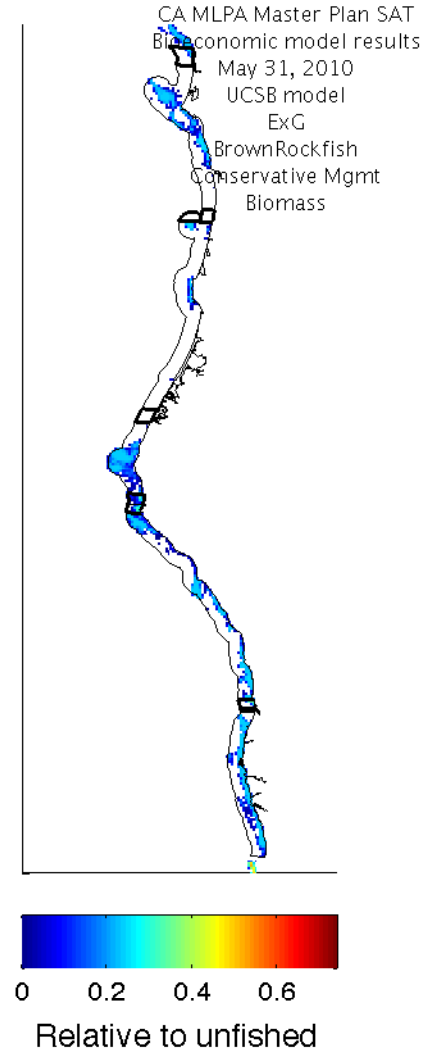

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
UnsucMgmt
Larval Supply
-4
-2
0
% Change

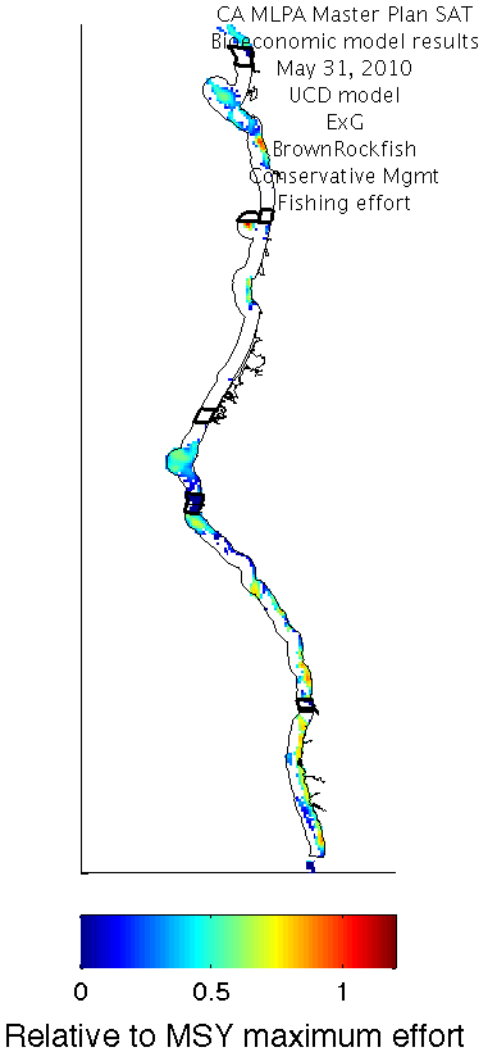

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
UnsucMgmt
arval Production
0
100
200
300
% Change

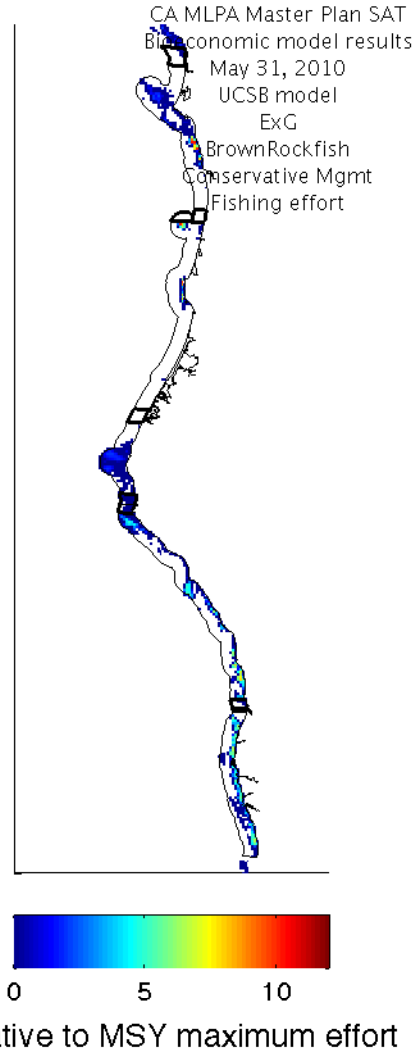

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0
0.4
0.8
1.2
1.6
Relative to MSY

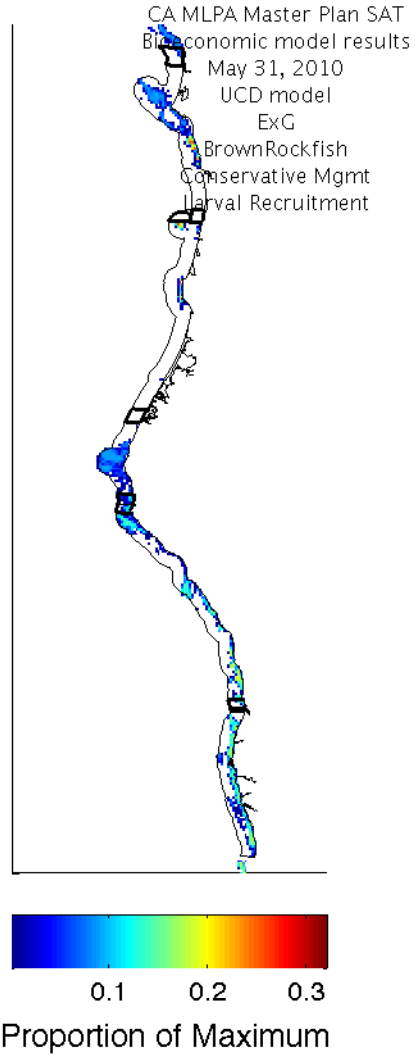

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0
0.02
0.04
Relative to MSY

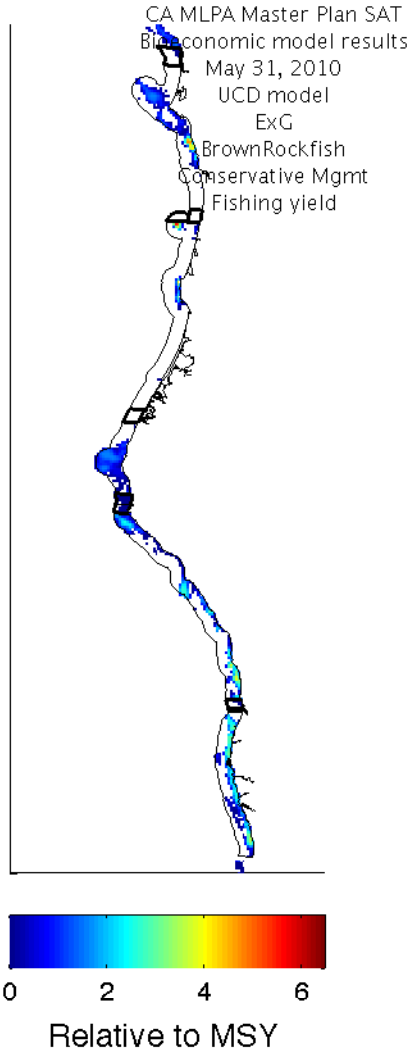

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Conservative Mgmt
Biomass
0
1
2
Relative to unfished

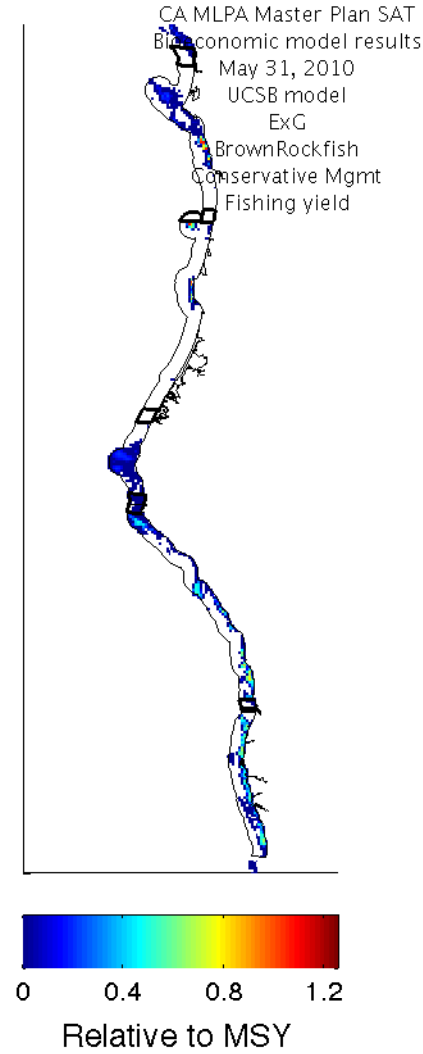

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
Relative to unfished

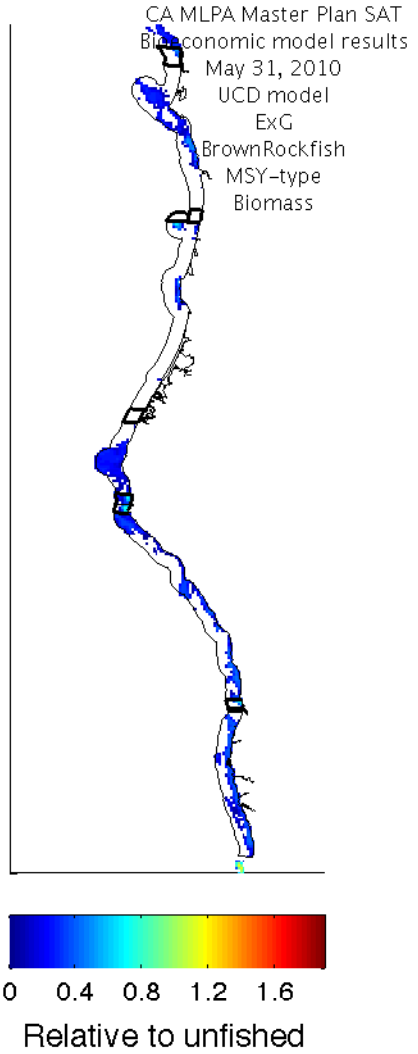

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Conservative Mgmt
Fishing effort
0
0.5
1
Relative to MSY maximum effort

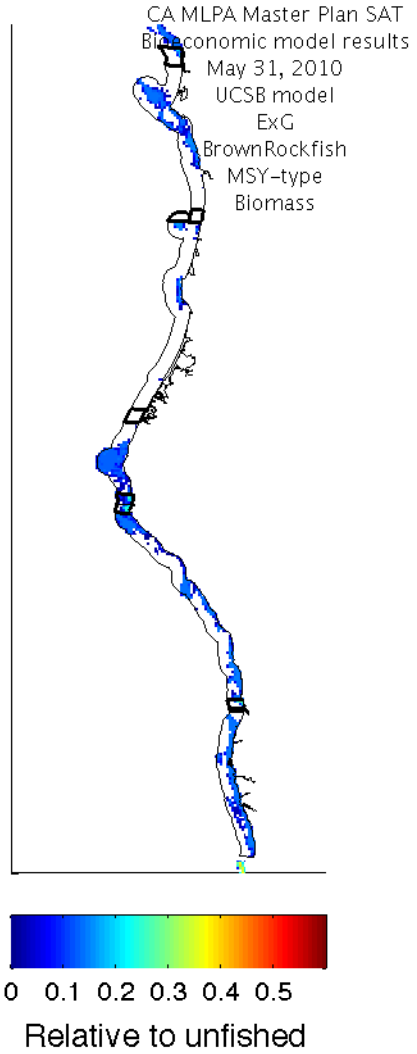

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

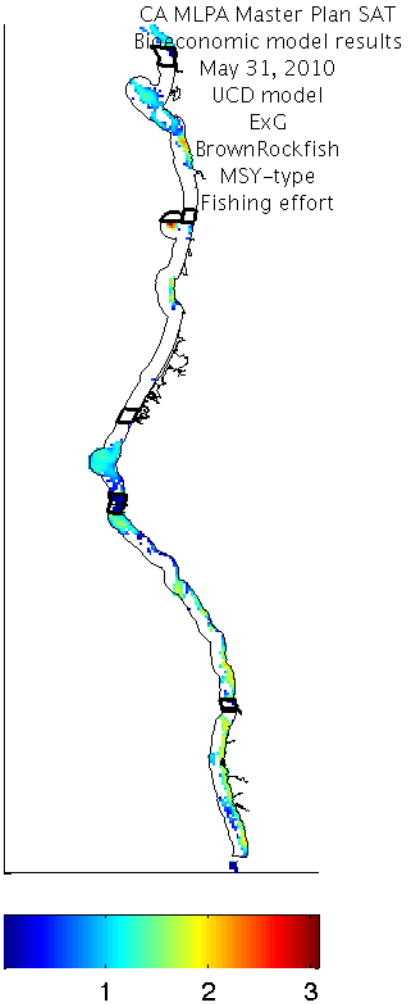

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Conservative Mgmt
larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

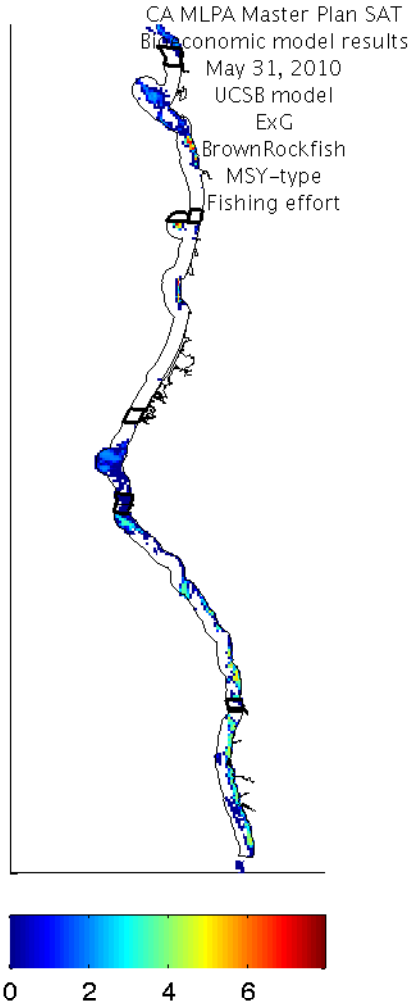

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Conservative Mgmt
Fishing yield
0
2
4
6
Relative to MSY

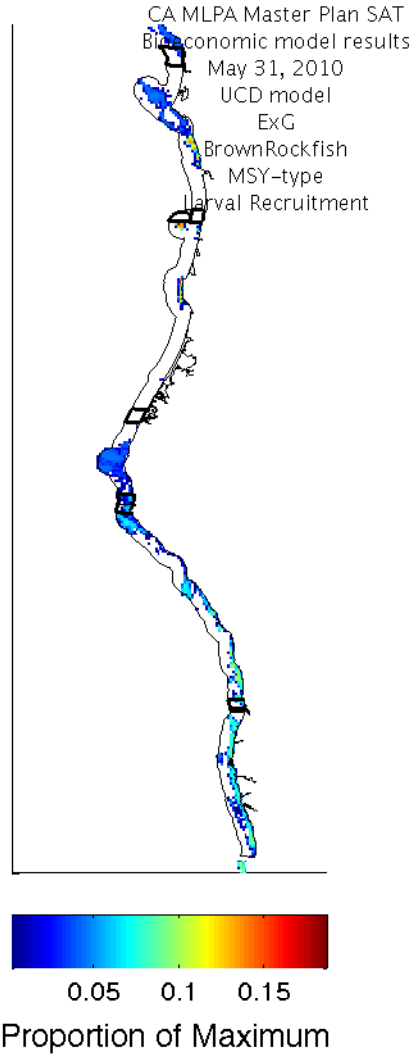

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
Conservative Mgmt
Fishing yield
0
0.4
0.8
1.2
Relative to MSY

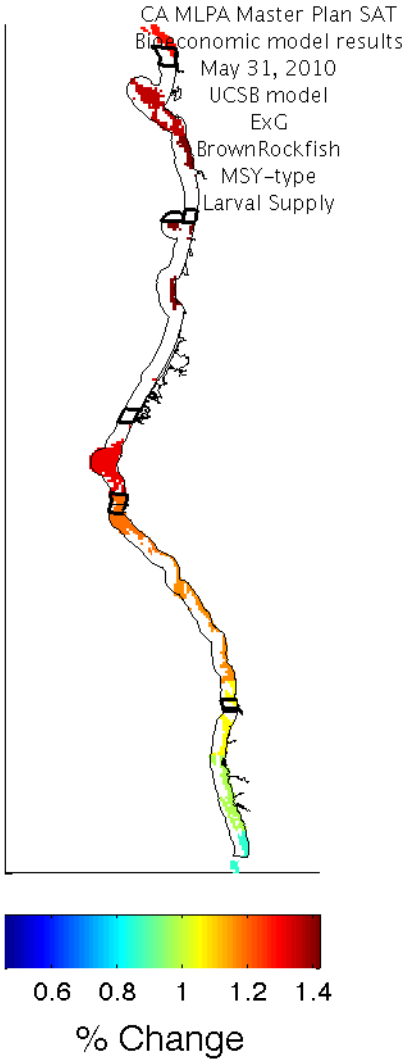

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
MSY-type
Biomass
0 0.4 0.8 1.2 1.6
Relative to unfished

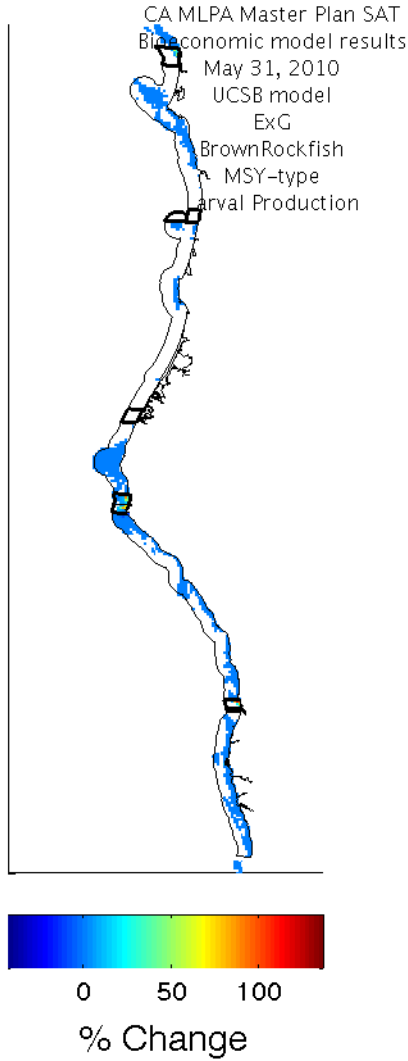

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
MSY-type
Biomass
0 0.1 0.2 0.3 0.4 0.5
Relative to unfished

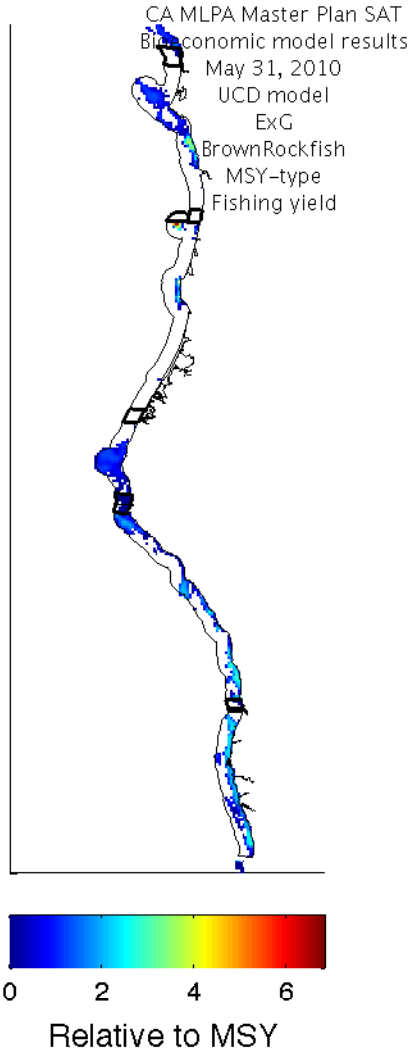

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
MSY-type
Fishing effort
1
2
3
Relative to MSY maximum effort

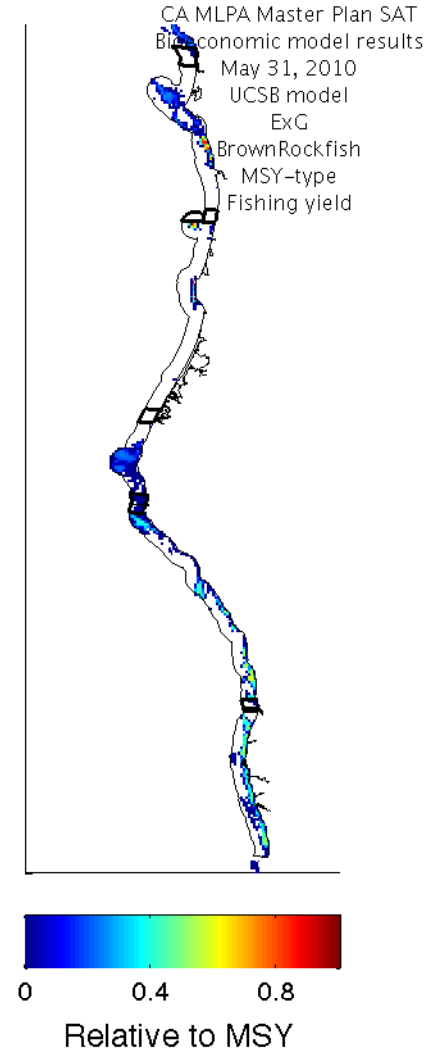

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
MSY-type
Fishing effort
0
2
4
6
Relative to MSY maximum effort

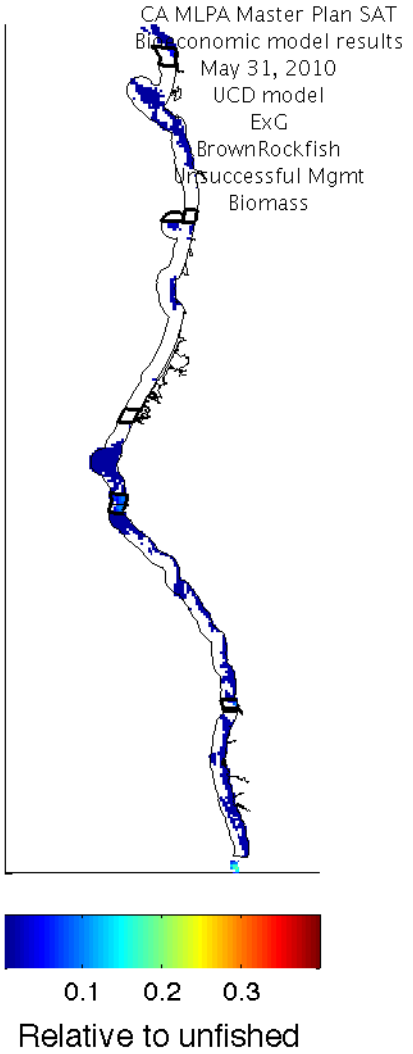

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
MSY-type
larval Recruitment
0.05
0.1
0.15
Proportion of Maximum

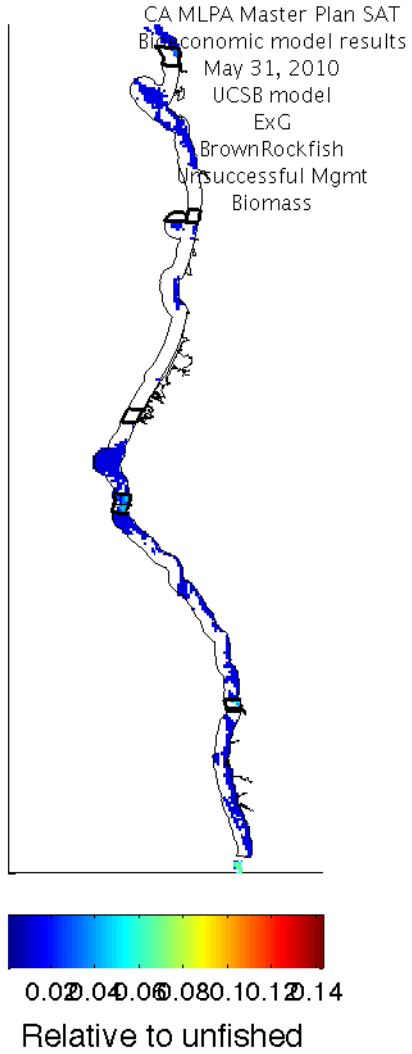

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
MSY-type
Larval Supply
0.6
0.8
1
1.2
1.4
% Change

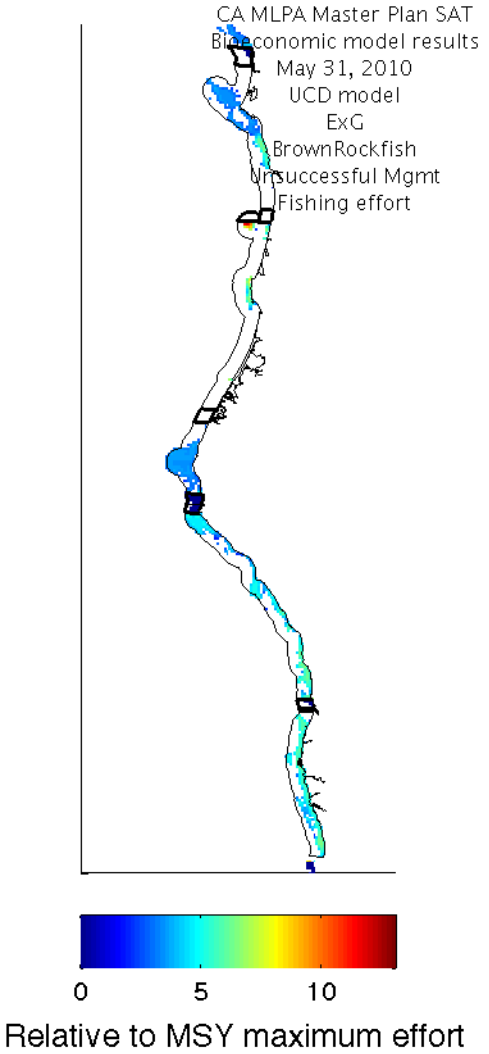

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
MSY-type
arval Production
0
50
100
% Change

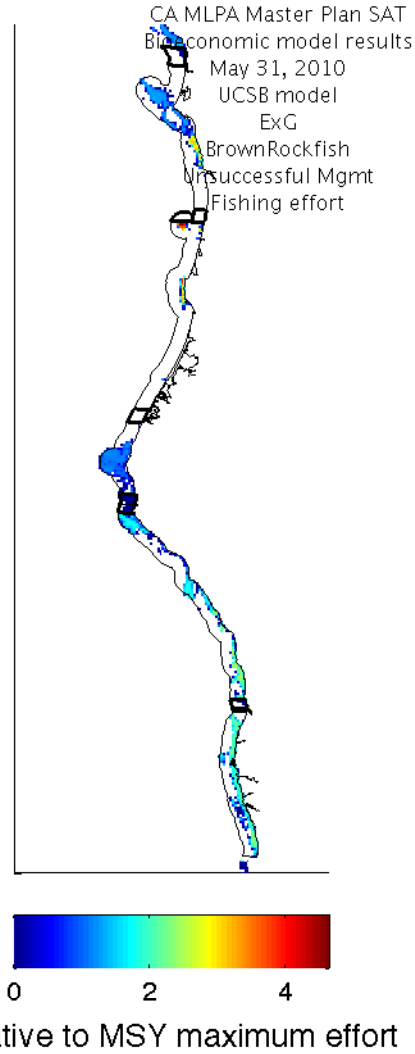

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
MSY-type
Fishing yield
0
2
4
6
Relative to MSY

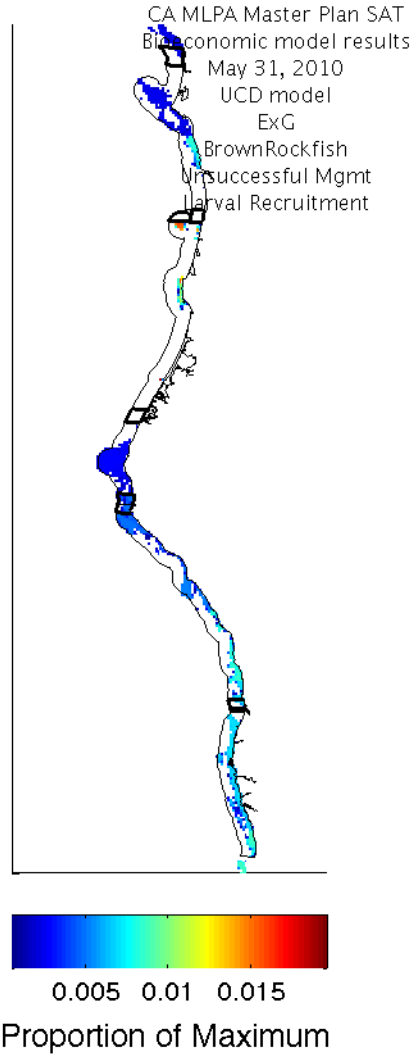

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

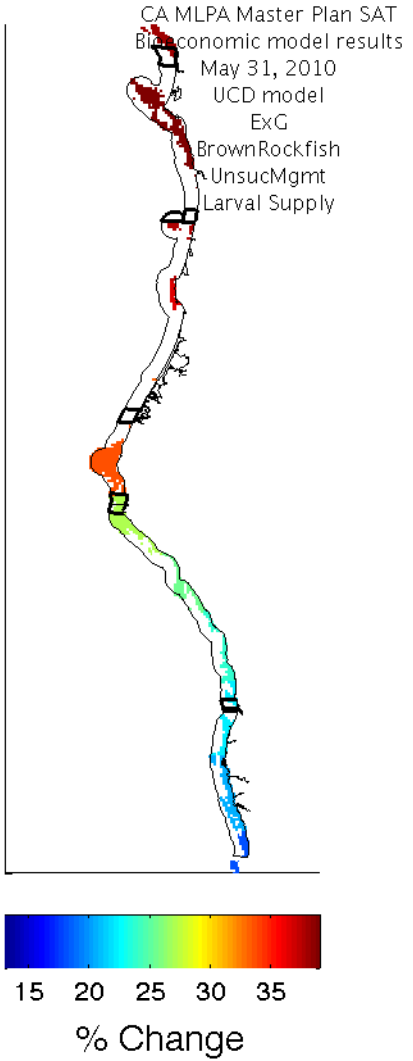

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Unsuccessful Mgmt
Biomass
0.1
0.2
0.3
Relative to unfished

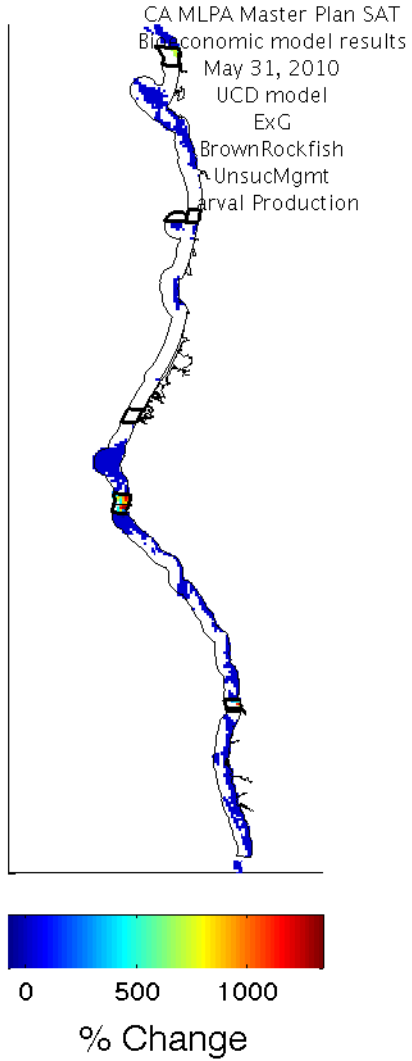

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
Unsuccessful Mgmt
Biomass
0.02
0.04
0.06
0.08
0.1
0.12
0.14
Relative to unfished

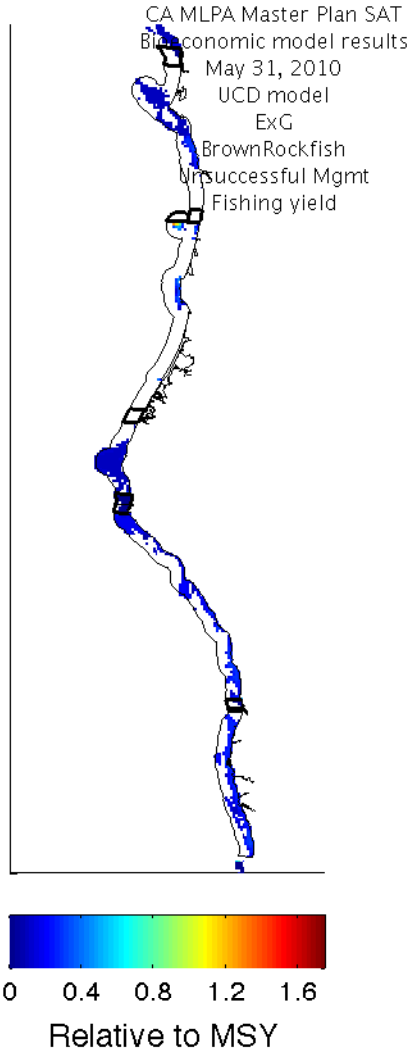

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Unsuccessful Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

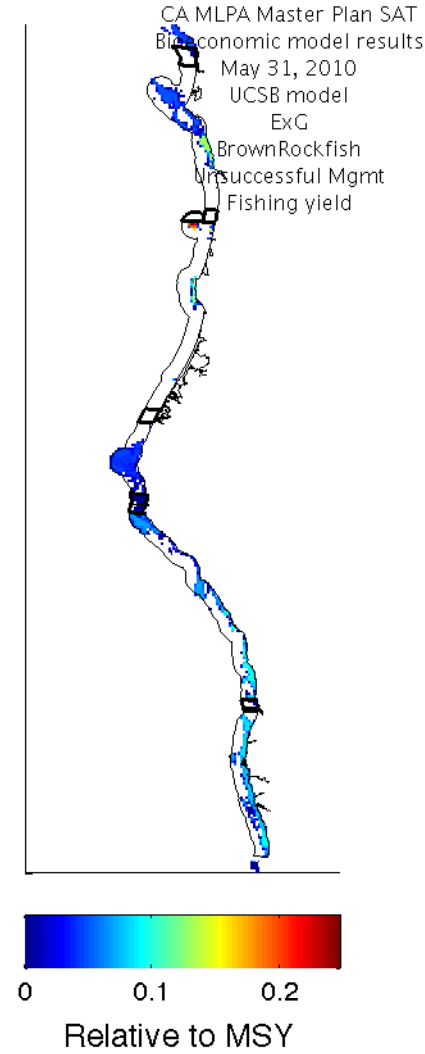

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort

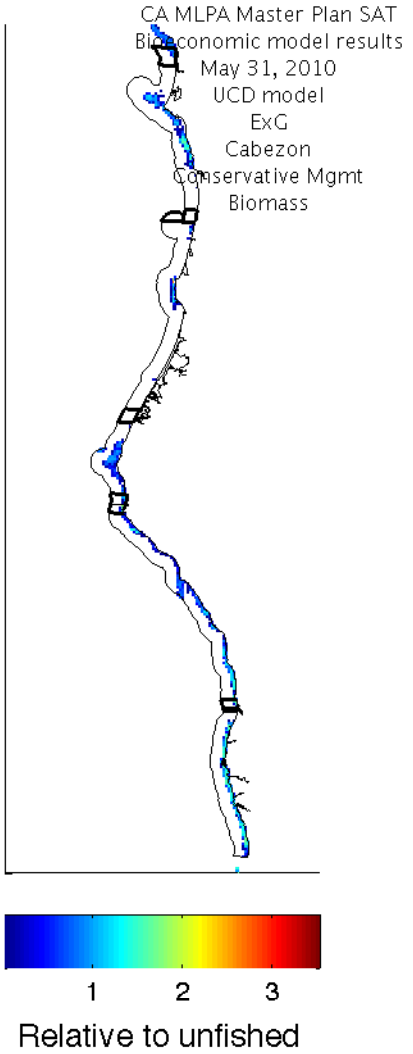

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Unsuccessful Mgmt
Larval Recruitment
0.005
0.01
0.015
Proportion of Maximum

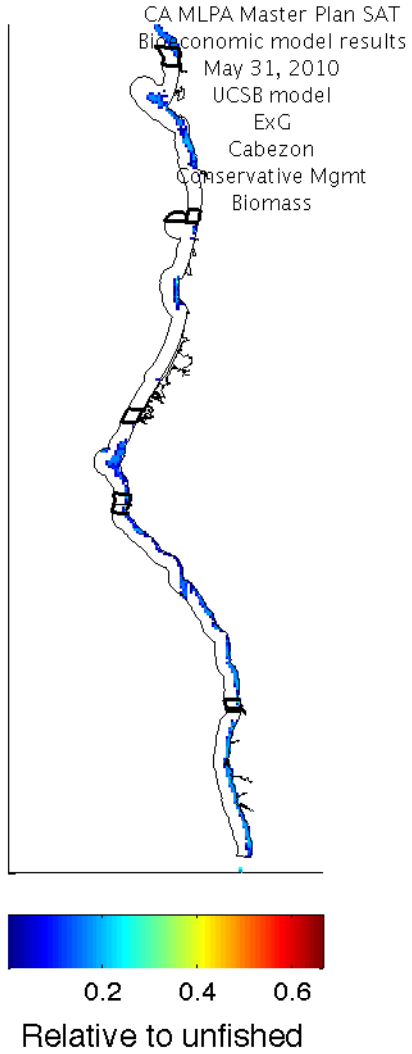

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
UnsucMgmt
Larval Supply
15
20
25
30
35
% Change

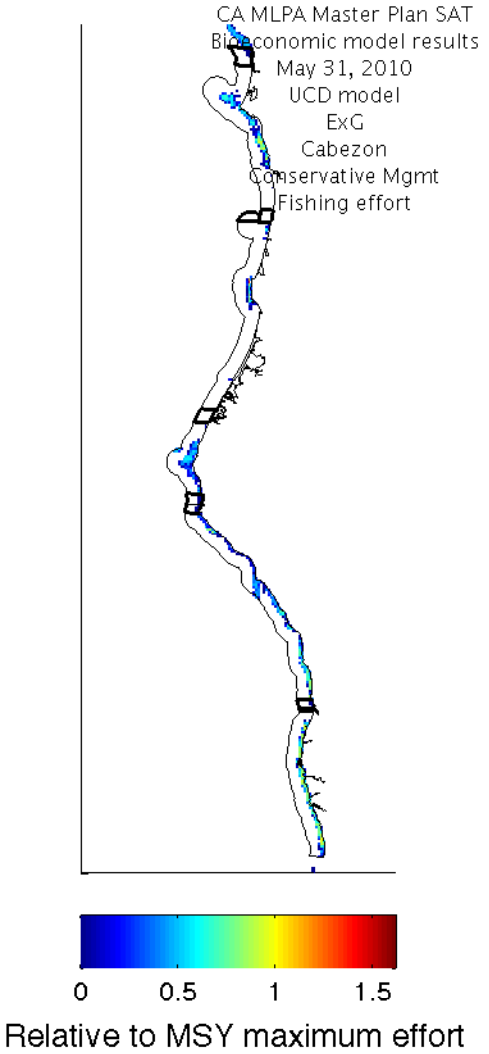

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
UnsucMgmt
arval Production
0
500
1000
% Change

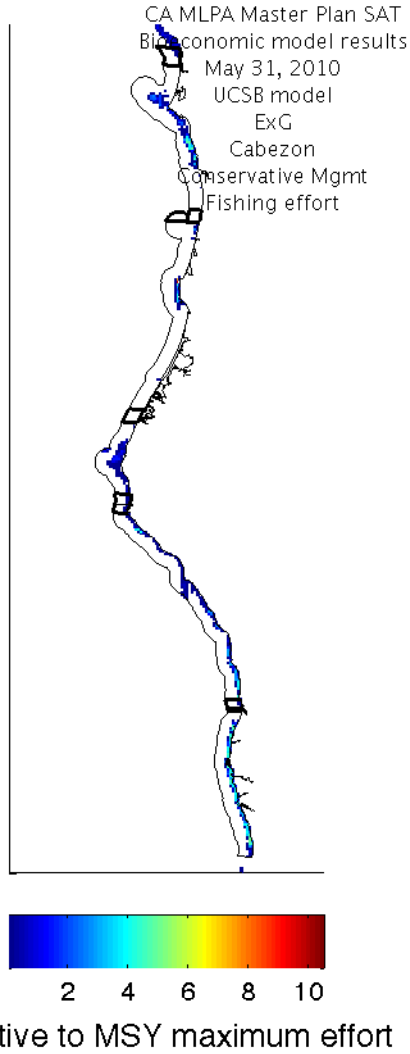

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
BrownRockfish
Unsuccessful Mgmt
Fishing yield
0
0.4
0.8
1.2
1.6
Relative to MSY

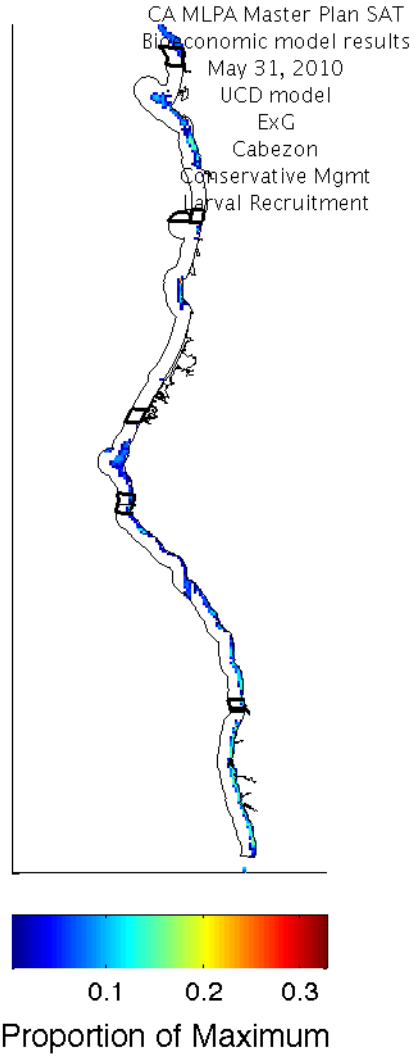

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
BrownRockfish
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
Relative to MSY

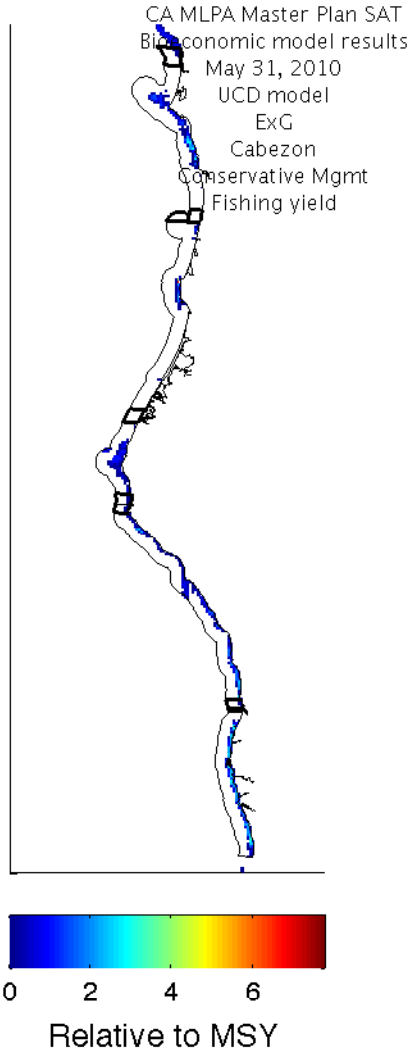

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Conservative Mgmt
Biomass
1
2
3
Relative to unfished

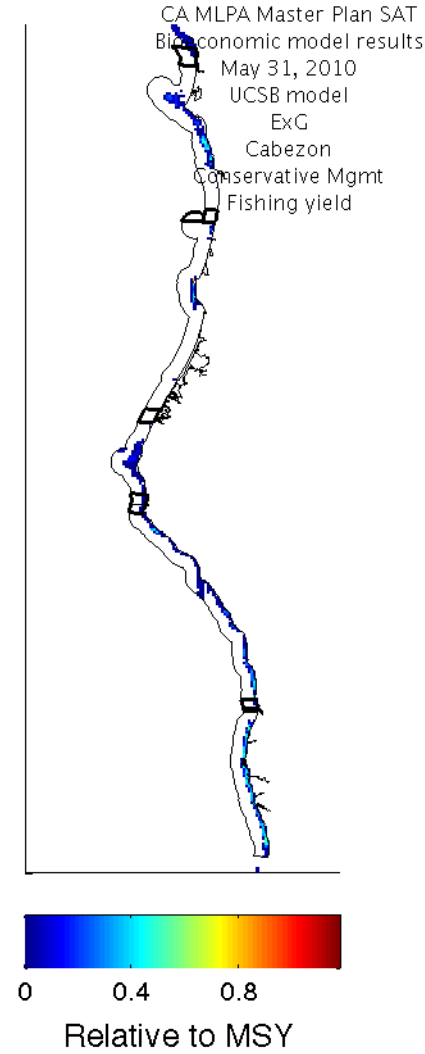

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
Conservative Mgmt
Biomass
0.2
0.4
0.6
Relative to unfished

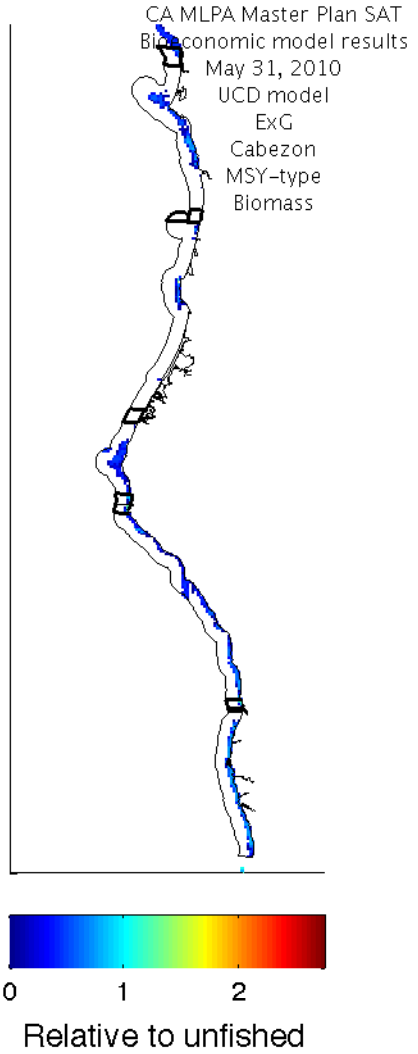

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Conservative Mgmt
Fishing effort
0
0.5
1
1.5
Relative to MSY maximum effort

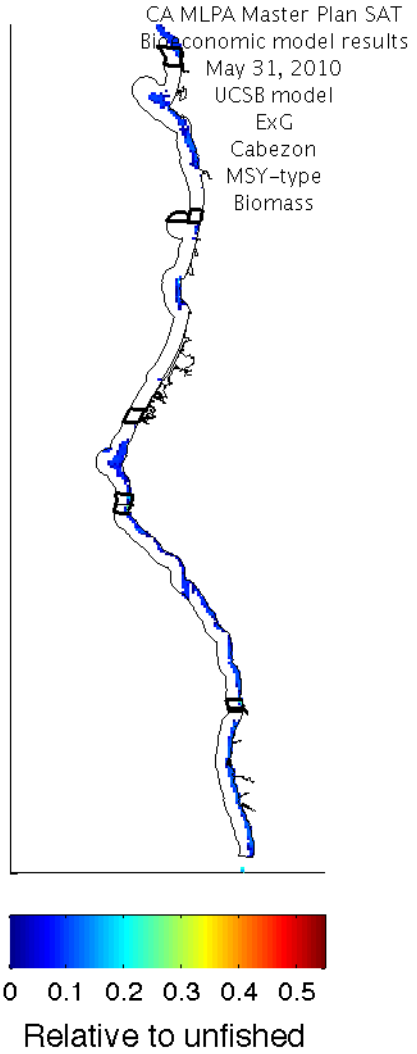

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
Conservative Mgmt
Fishing effort
2
4
6
8
10
Relative to MSY maximum effort

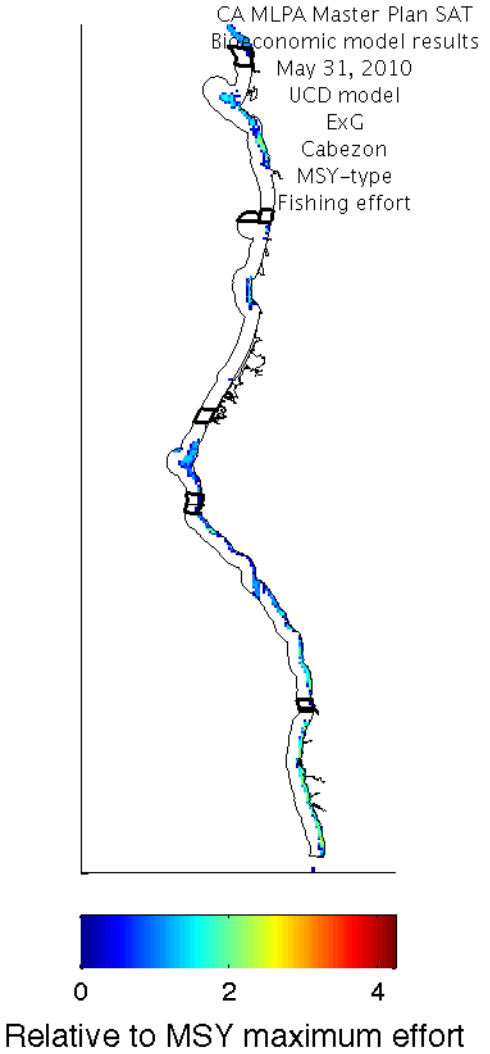

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Conservative Mgmt
larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

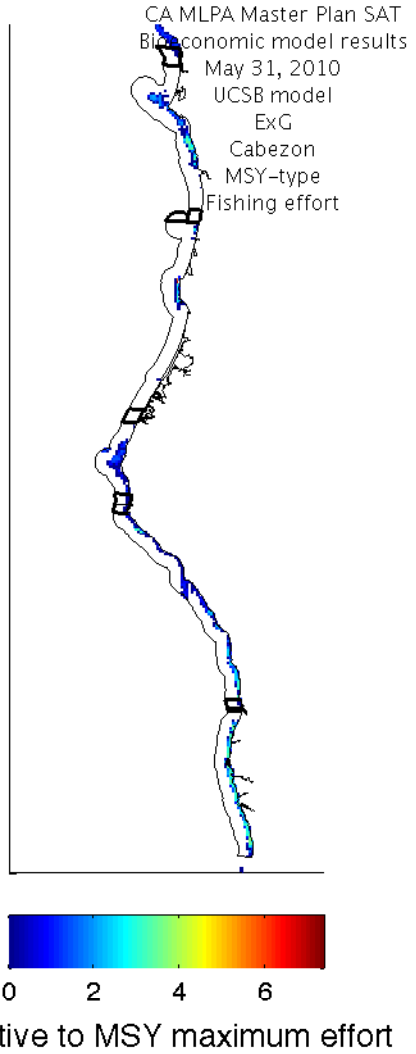

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Conservative Mgmt
Fishing yield
0
2
4
6
Relative to MSY

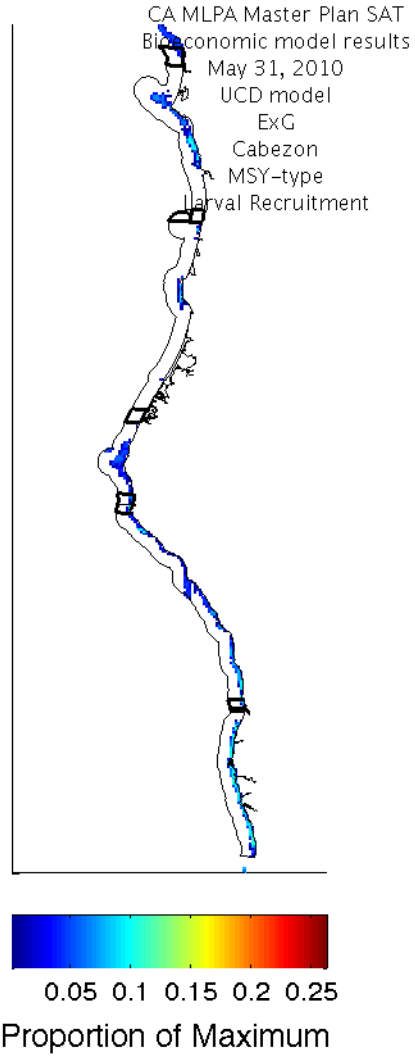

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY

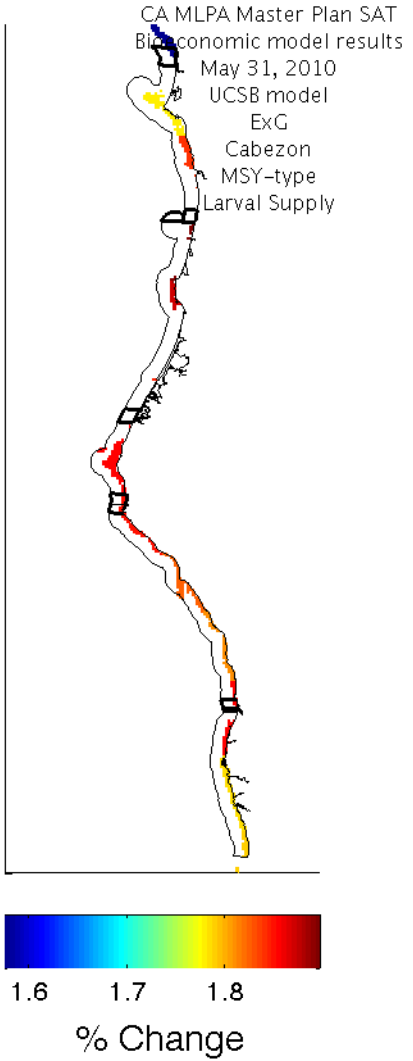

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
MSY-type
Biomass
0
1
2
Relative to unfished

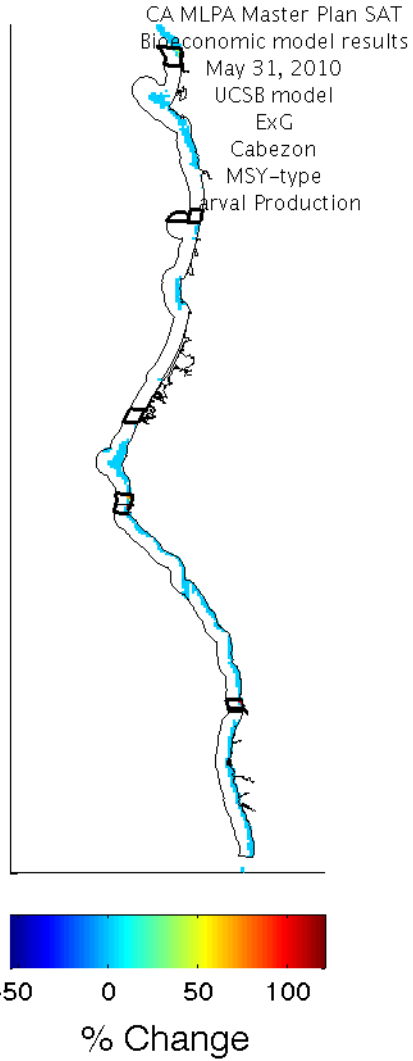

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
MSY-type
Biomass
0
0.1
0.2
0.3
0.4
0.5
Relative to unfished

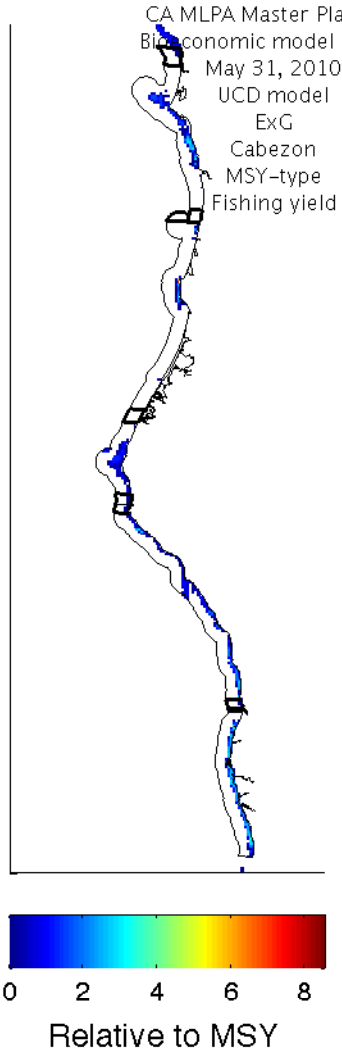

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
MSY-type
Fishing effort
0
2
4
Relative to MSY maximum effort

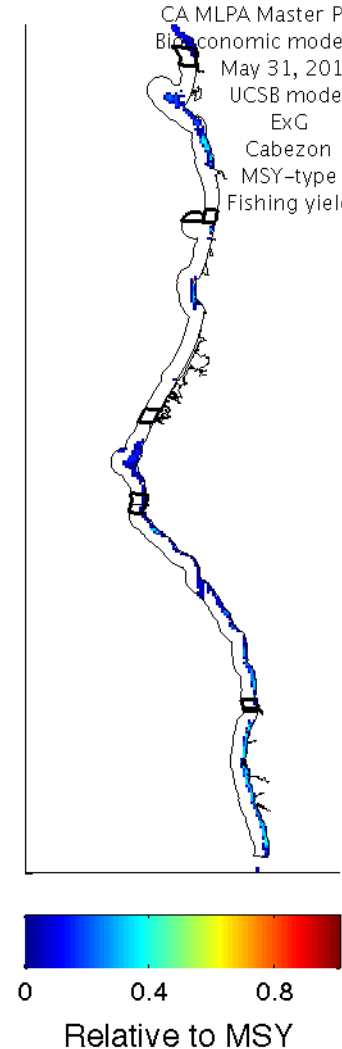

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
MSY-type
Fishing effort
0
2
4
6
Relative to MSY maximum effort

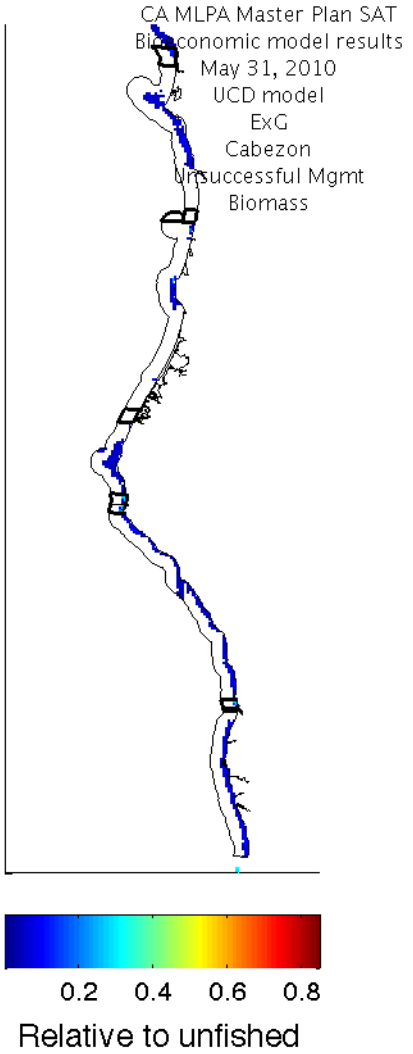

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
MSY-type
larval Recruitment
0.05 0.1 0.15 0.2 0.25
Proportion of Maximum

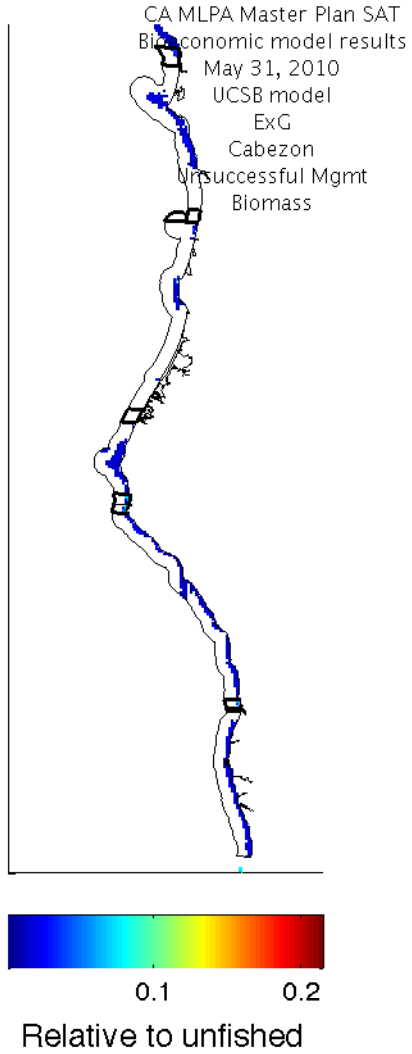

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
MSY-type
Larval Supply
1.6
1.7
1.8
% Change

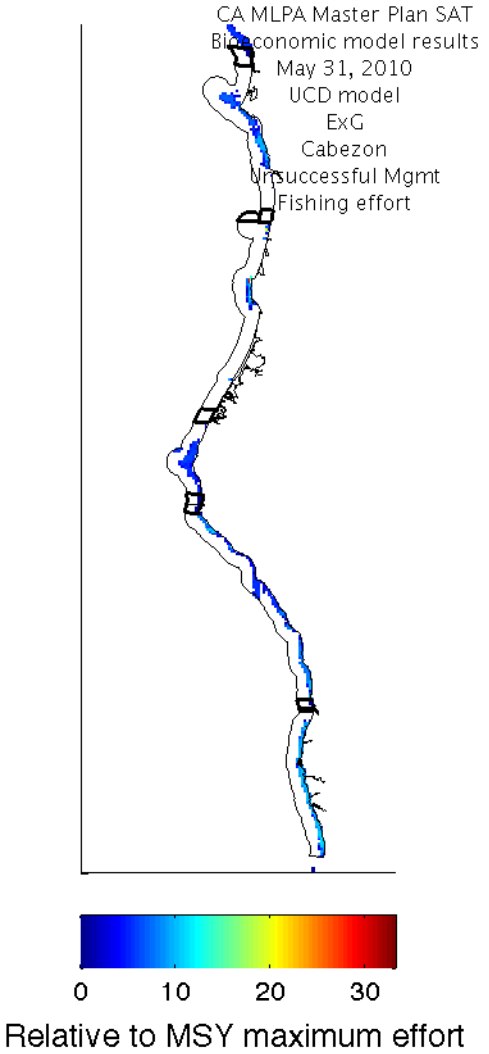

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
MSY-type
arval Production
-50
0
50
100
% Change

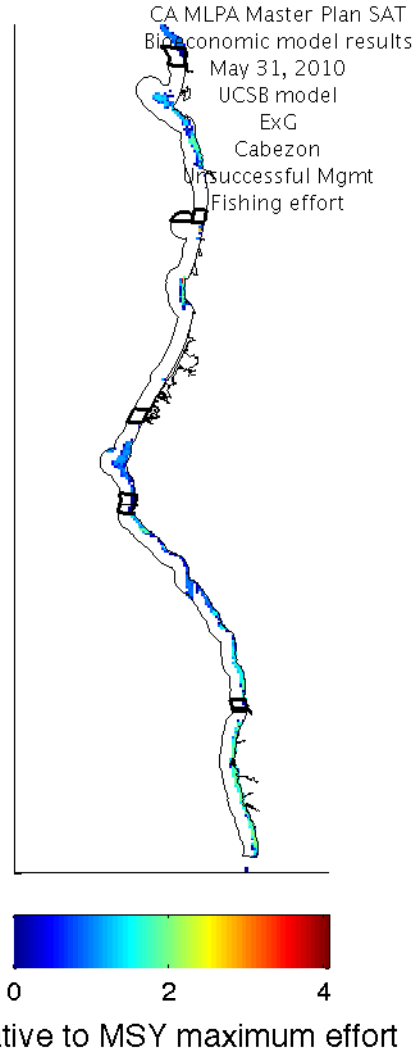

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
MSY-type
Fishing yield
0
2
4
6
8
Relative to MSY

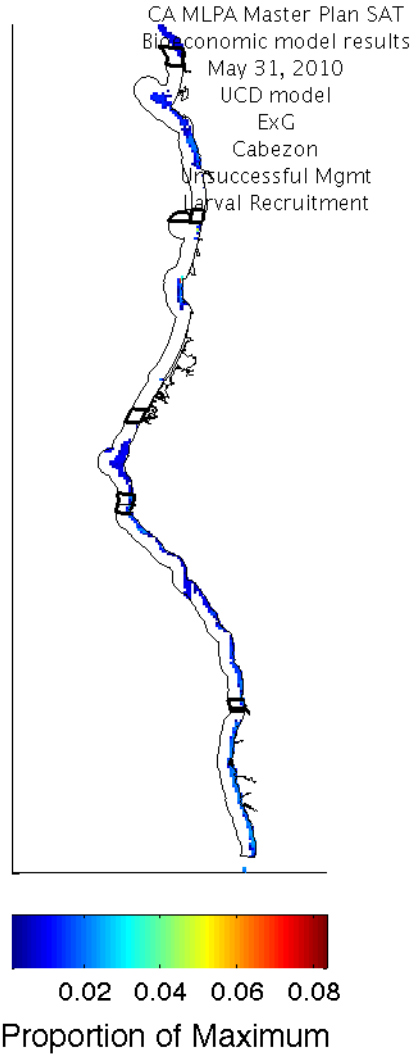

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

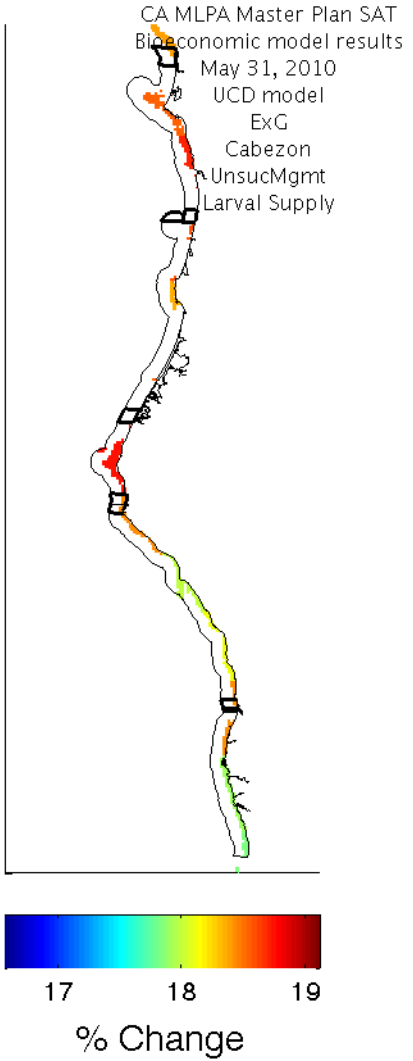

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Unsuccessful Mgmt
Biomass
0.2
0.4
0.6
0.8
Relative to unfished

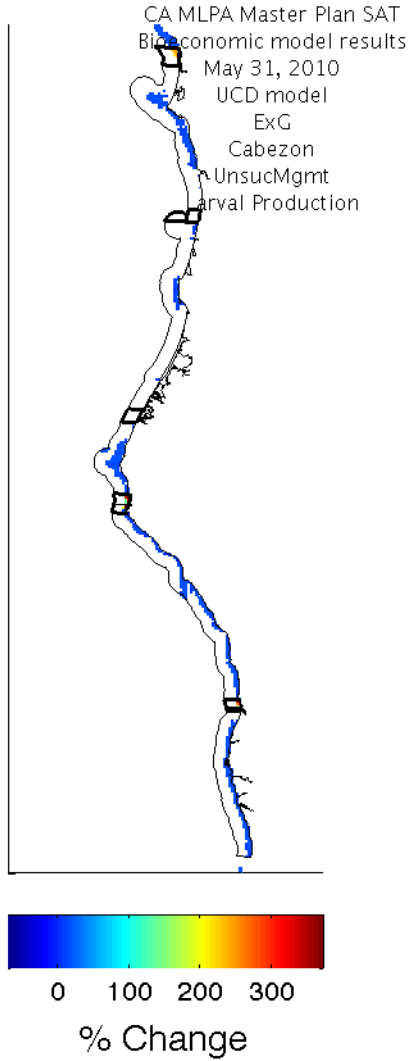

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
Unsuccessful Mgmt
Biomass
0.1
0.2
Relative to unfished

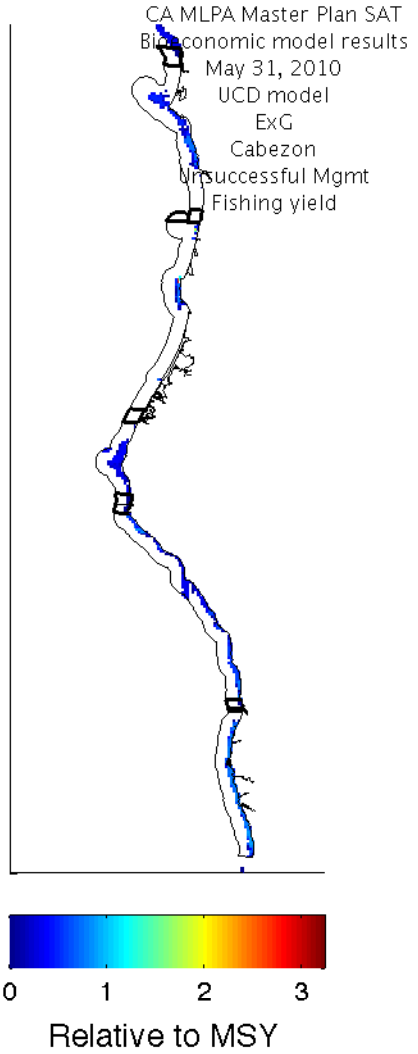

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Unsuccessful Mgmt
Fishing effort
0
10
20
30
Relative to MSY maximum effort

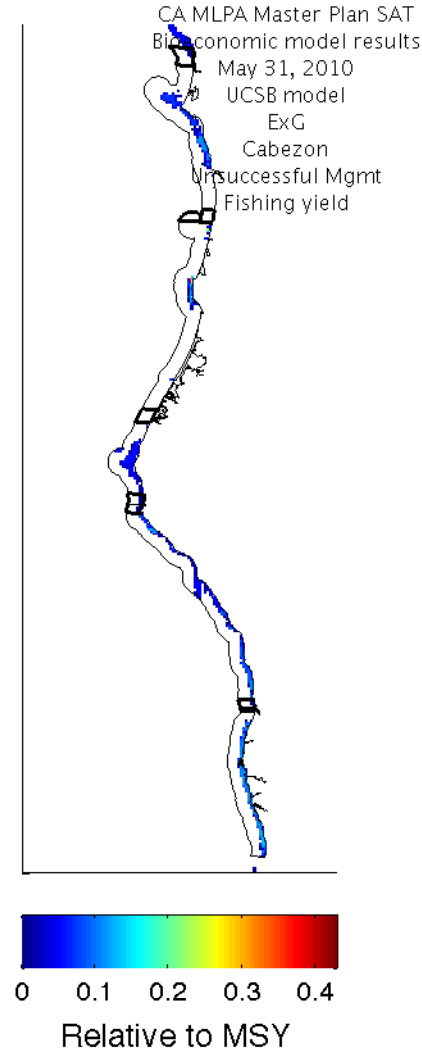

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort

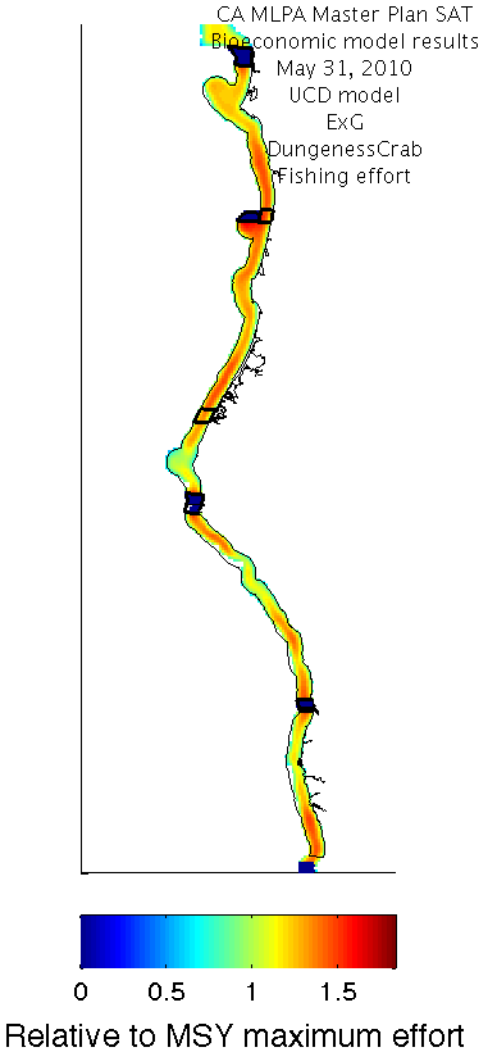

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Unsuccessful Mgmt
larval Recruitment
0.02
0.04
0.06
0.08
Proportion of Maximum

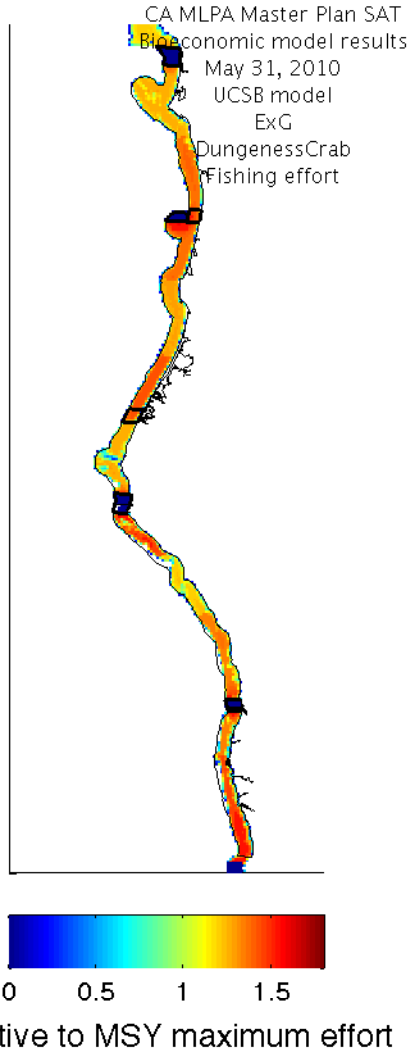

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
UnsucMgmt
Larval Supply
17
18
19
% Change

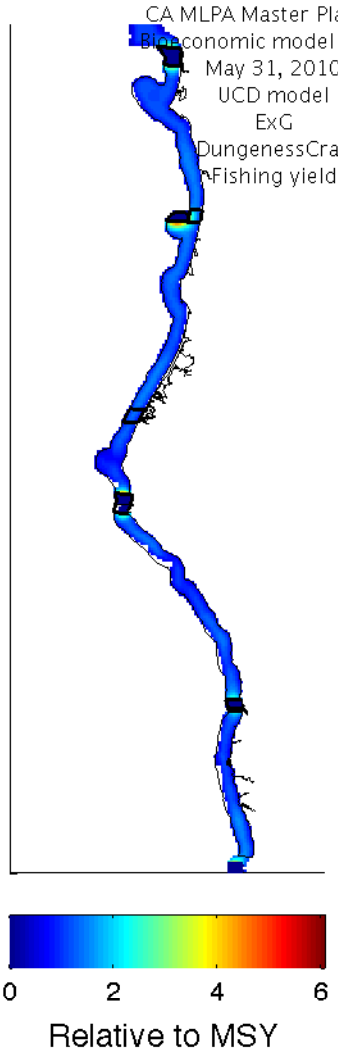

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
UnsucMgmt
arval Production
0
100
200
300
% Change

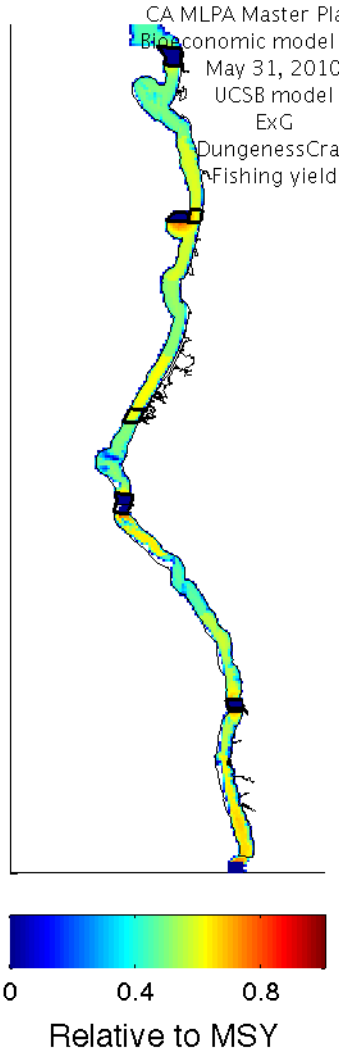

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
Cabezon
Unsuccessful Mgmt
Fishing yield
0
1
2
3
Relative to MSY

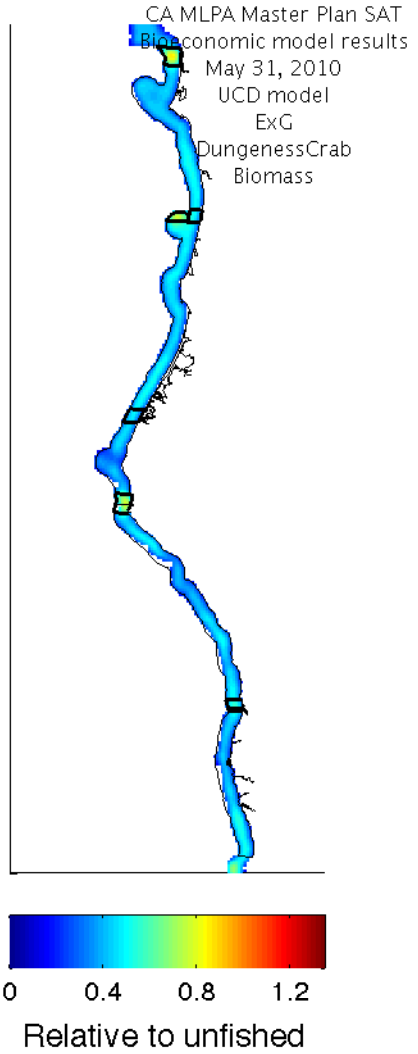

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
Cabezon
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
0.3
0.4
Relative to MSY

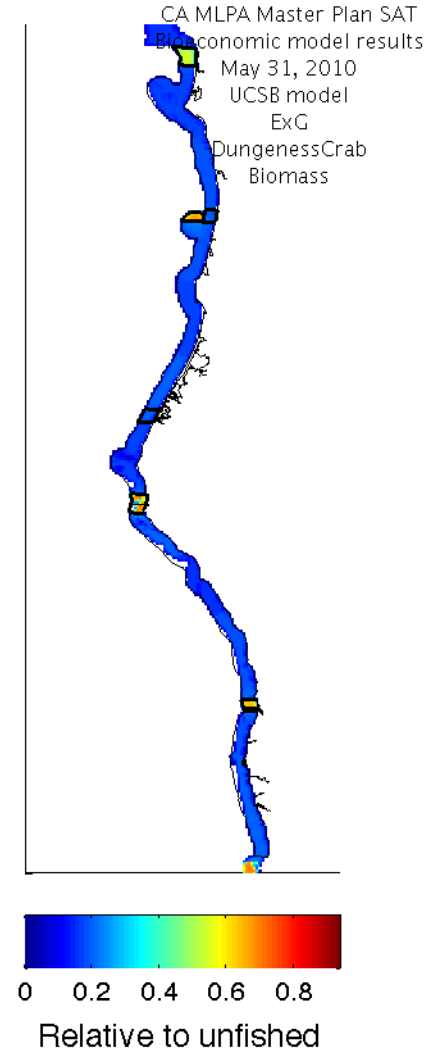

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
DungenessCrab
Fishing effort
0
0.5
1
1.5
Relative to MSY maximum effort

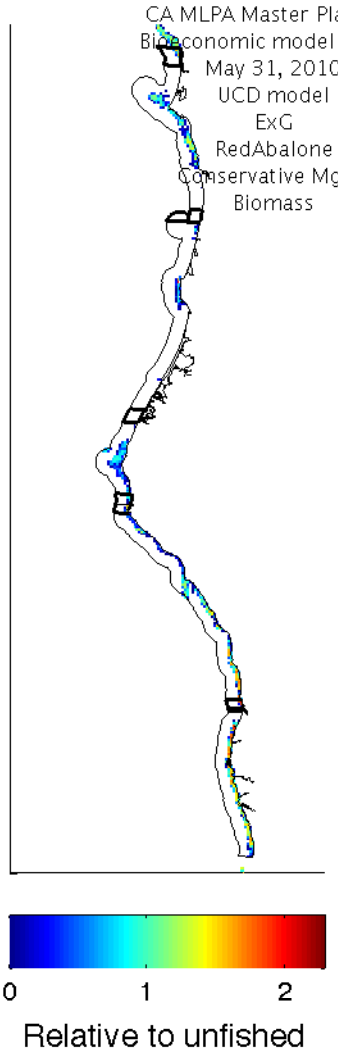

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
DungenessCrab
Fishing effort
0
0.5
1
1.5
Relative to MSY maximum effort

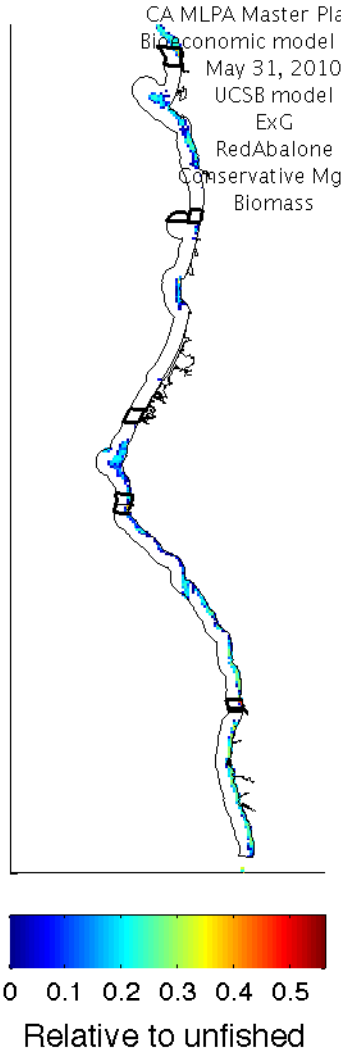

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
DungenessCrab
Fishing yield
0
2
4
6
Relative to MSY

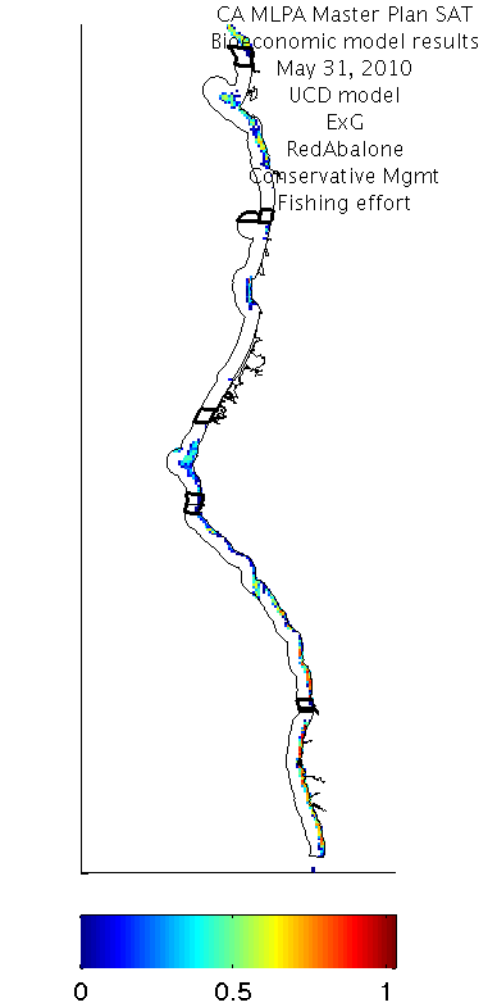

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
DungenessCrab
Fishing yield
0
0.4
0.8
Relative to MSY

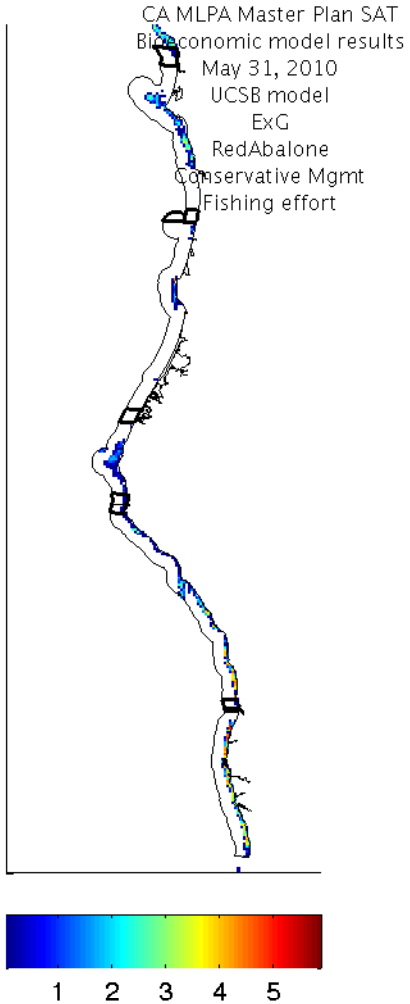

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
DungenessCrab
Biomass
0
0.4
0.8
1.2
Relative to unfished

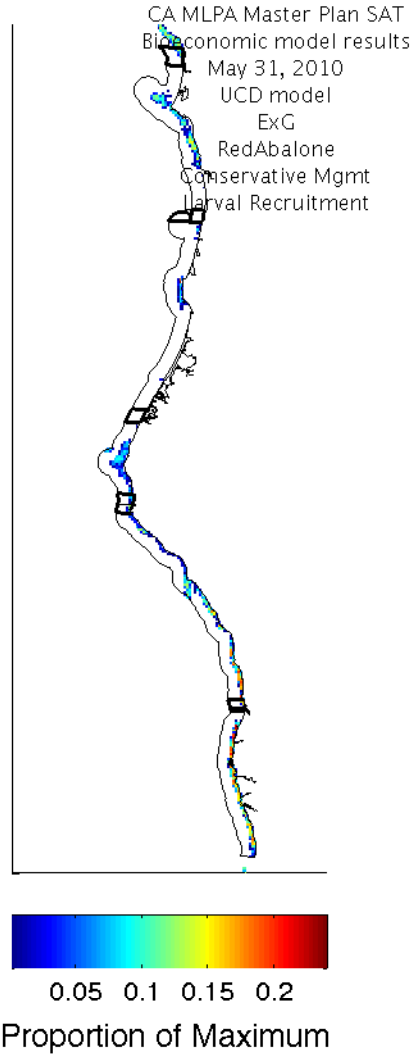

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
DungenessCrab
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

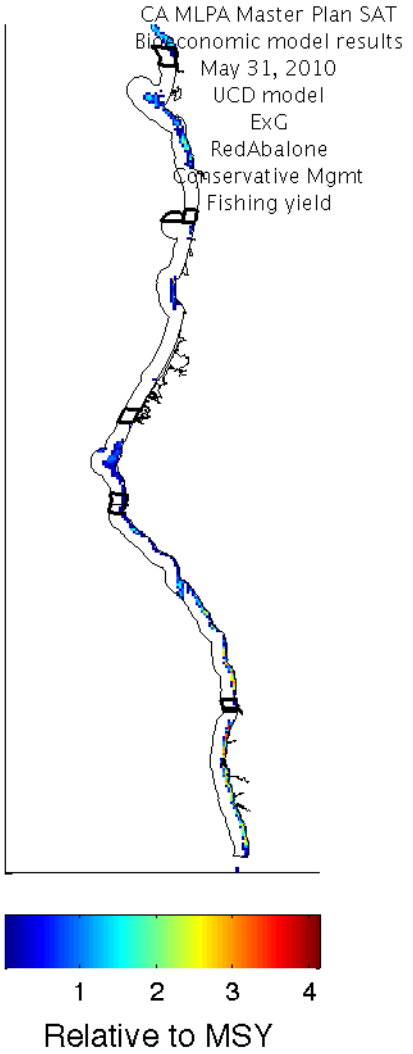

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Conservative Mgmt
Biomass
0
1
2
Relative to unfished

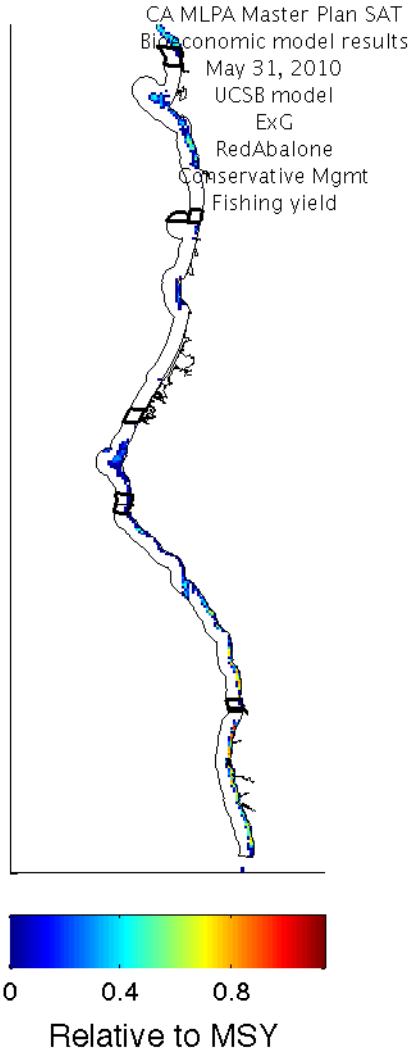

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
Conservative Mgmt
Biomass
0
0.1
0.2
0.3
0.4
0.5
Relative to unfished

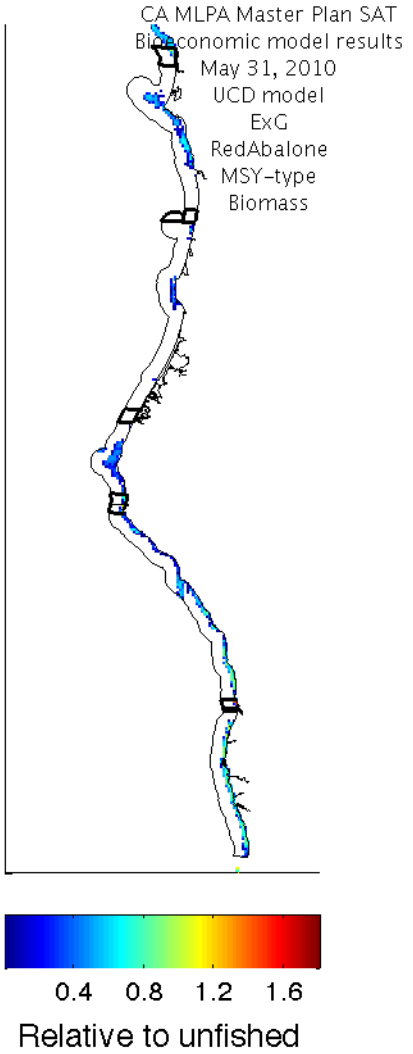

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Conservative Mgmt
Fishing effort
0
0.5
1
Relative to MSY maximum effort

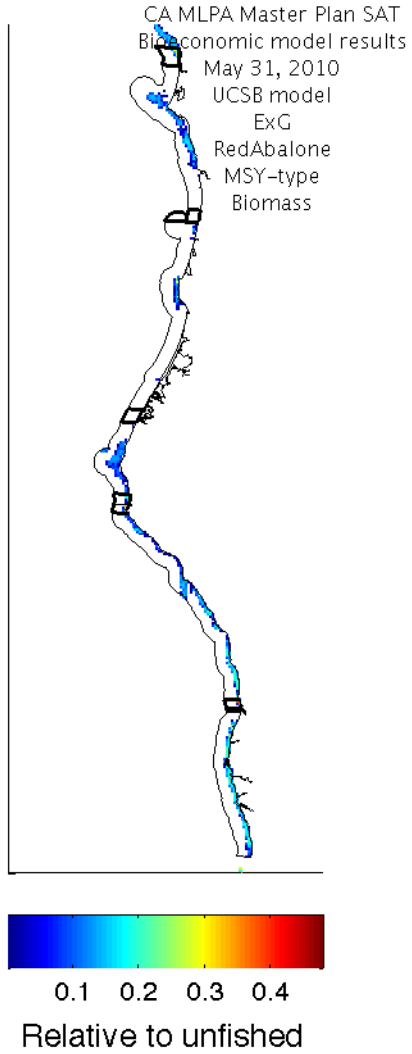

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
Conservative Mgmt
Fishing effort
1
2
3
4
5
Relative to MSY maximum effort

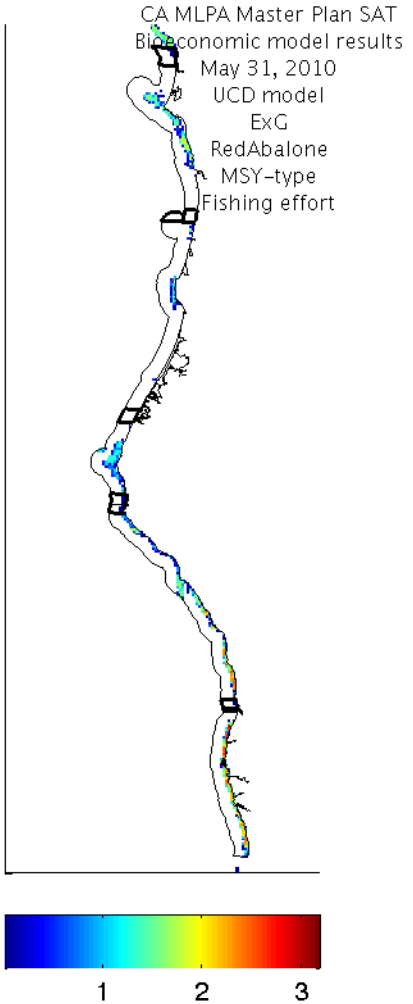

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Conservative Mgmt
Larval Recruitment
0.05 0.1 0.15 0.2
Proportion of Maximum

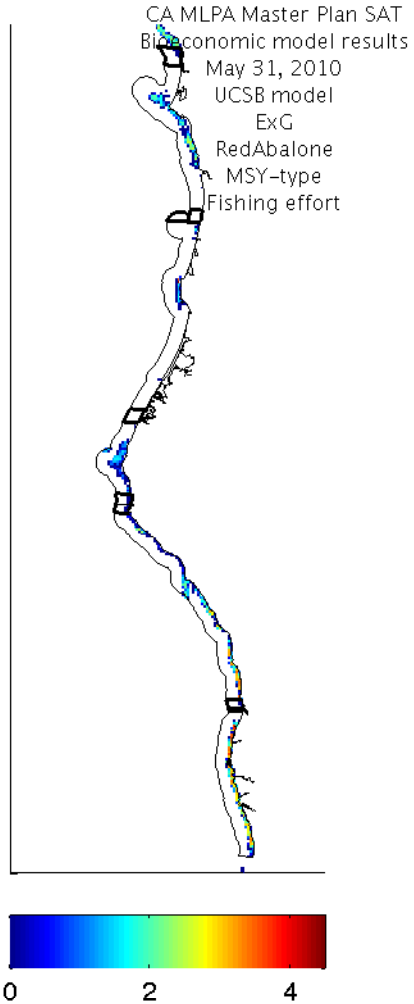

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Conservative Mgmt
Fishing yield
1
2
3
4
Relative to MSY

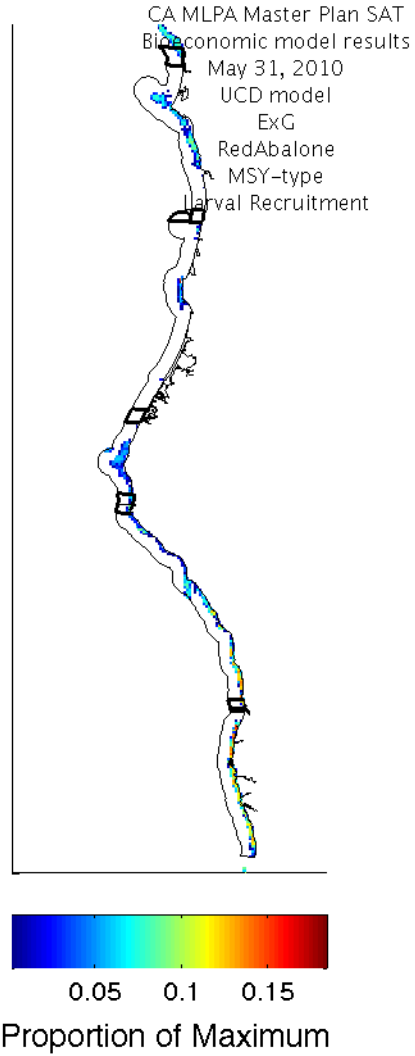

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY

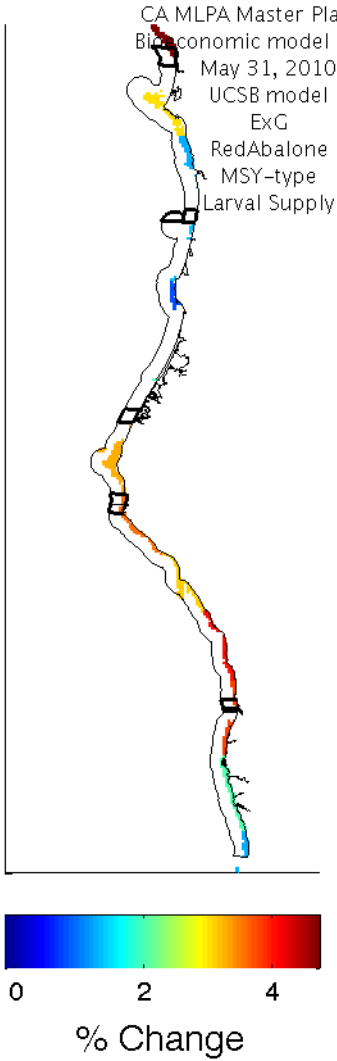

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
MSY-type
Biomass
0.4
0.8
1.2
1.6
Relative to unfished

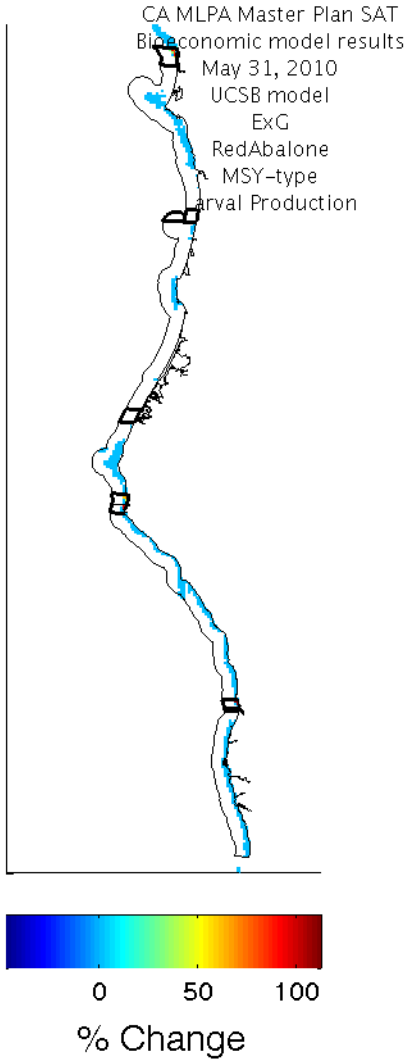

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
MSY-type
Biomass
0.1
0.2
0.3
0.4
Relative to unfished

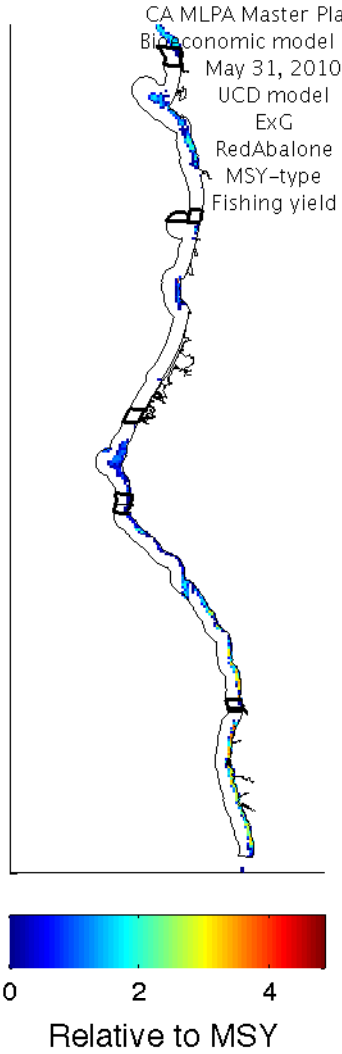

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
MSY-type
Fishing effort
1
2
3
Relative to MSY maximum effort

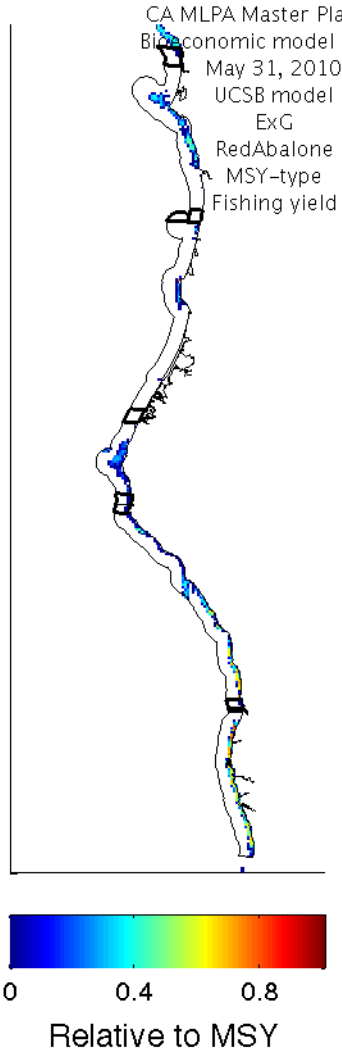

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
MSY-type
Fishing effort
0
2
4
Relative to MSY maximum effort

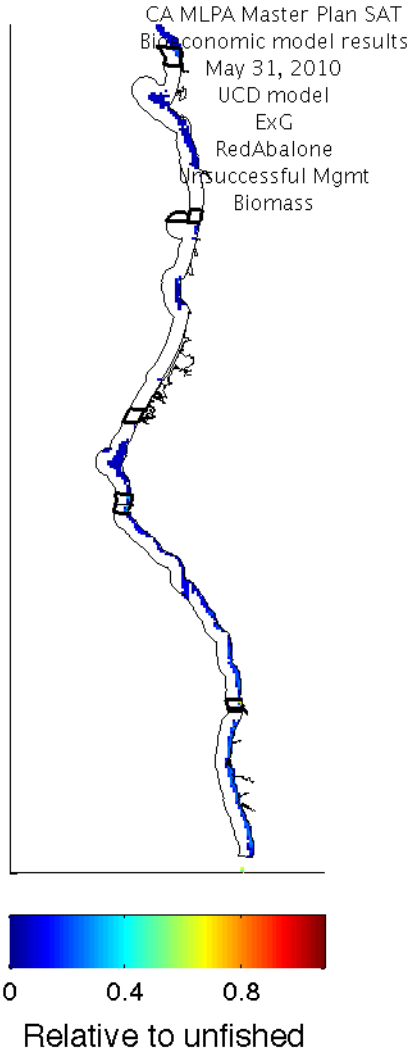

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
MSY-type
larval Recruitment
0.05
0.1
0.15
Proportion of Maximum

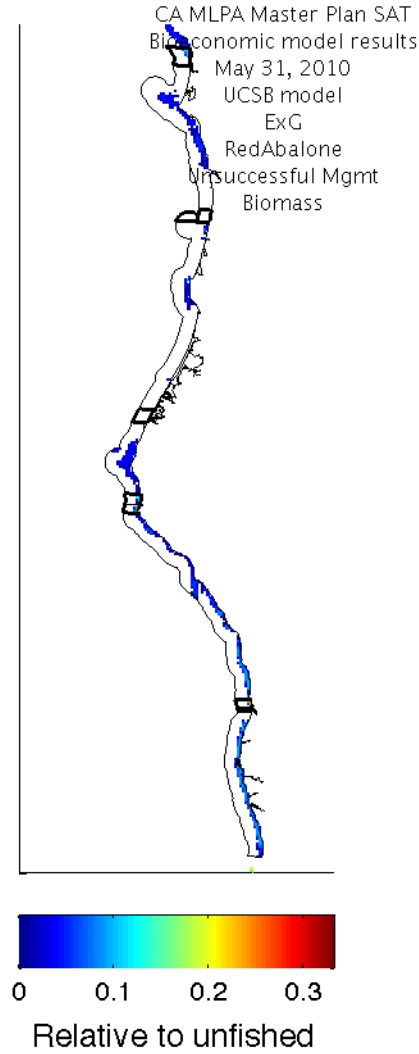

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
MSY-type
Larval Supply
0
2
4
% Change

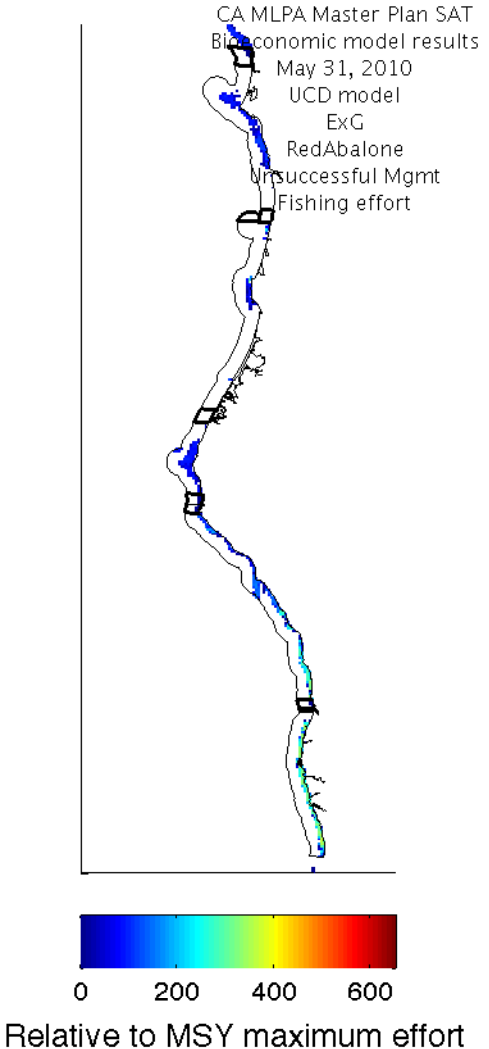

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
MSY-type
arval Production
0
50
100
% Change

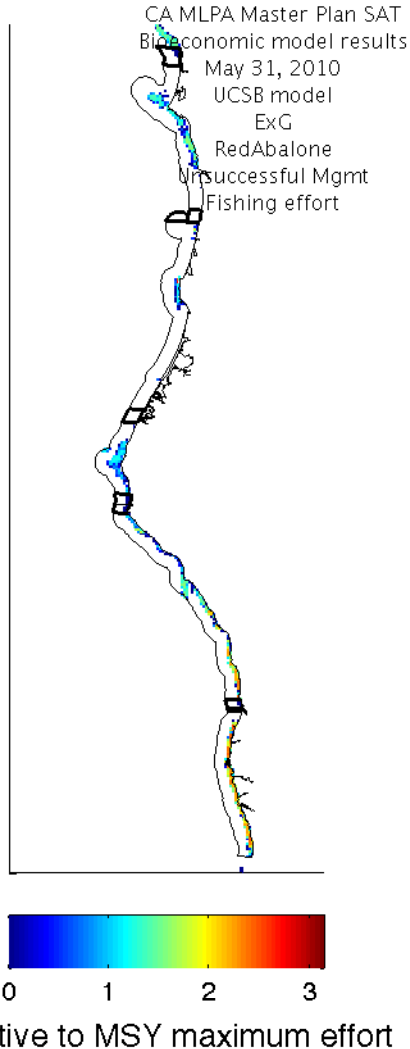

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
MSY-type
Fishing yield
0
2
4
Relative to MSY

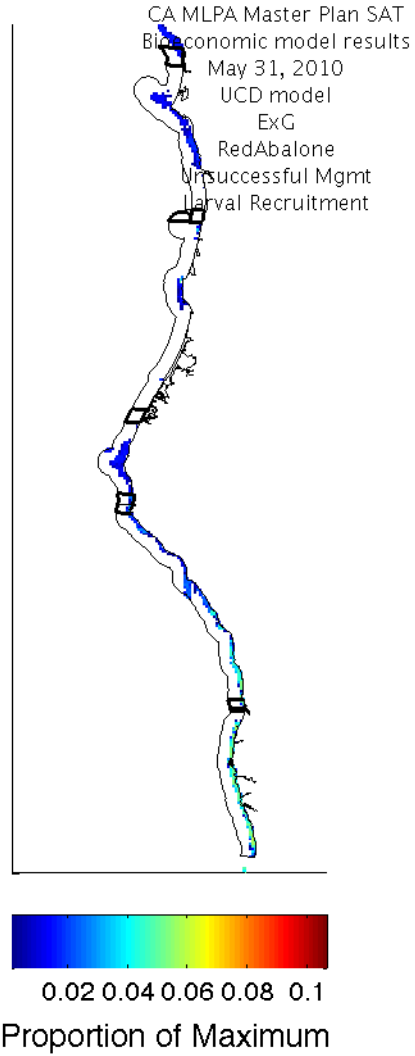

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

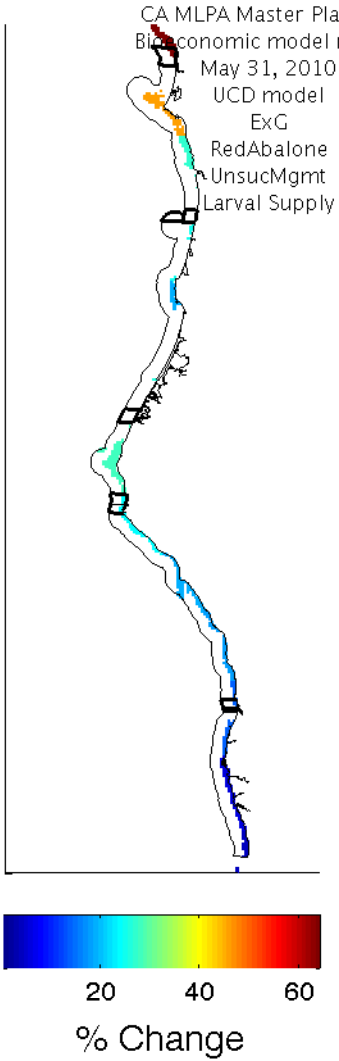

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Unsuccessful Mgmt
Biomass
0
0.4
0.8
Relative to unfished

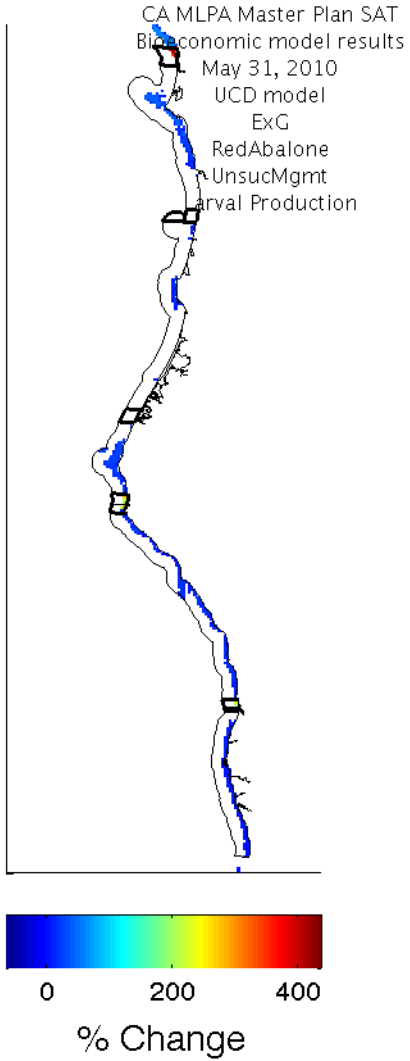

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
Unsuccessful Mgmt
Biomass
0
0.1
0.2
0.3
Relative to unfished

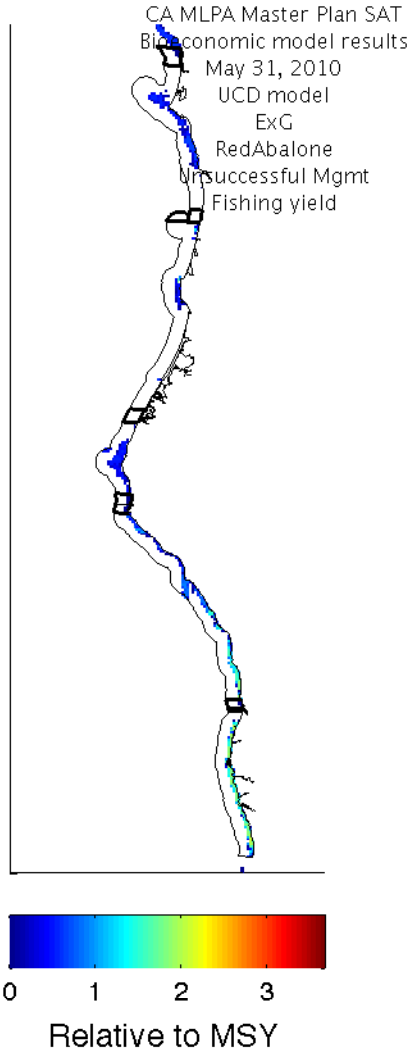

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Unsuccessful Mgmt
Fishing effort
0
200
400
600
Relative to MSY maximum effort

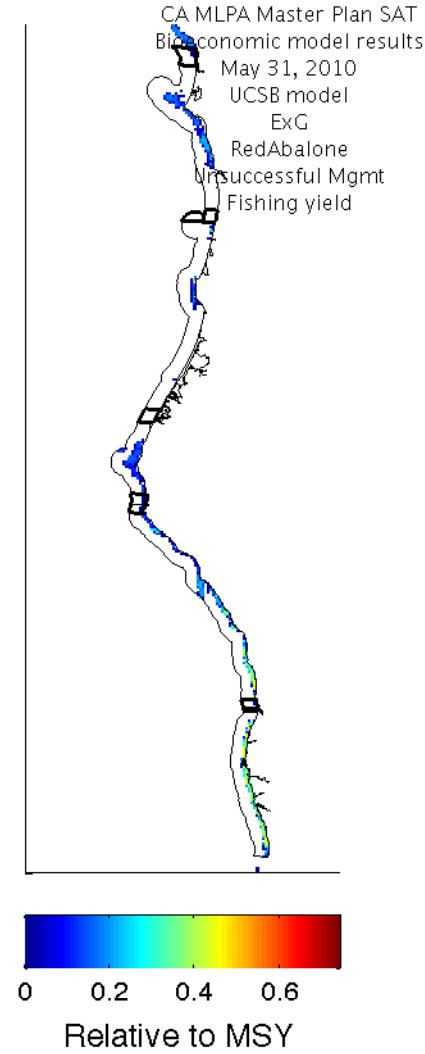

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
Unsuccessful Mgmt
Fishing effort
0
1
2
3
Relative to MSY maximum effort

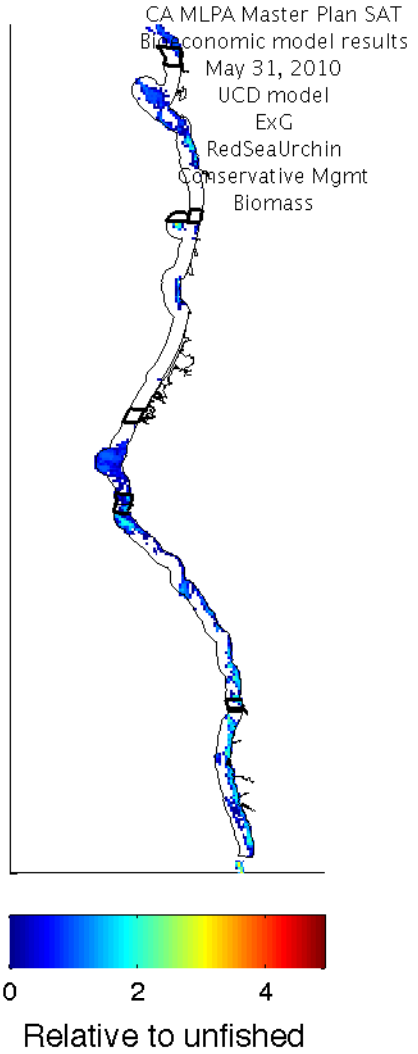

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Unsuccessful Mgmt
larval Recruitment
0.02 0.04 0.06 0.08 0.1
Proportion of Maximum

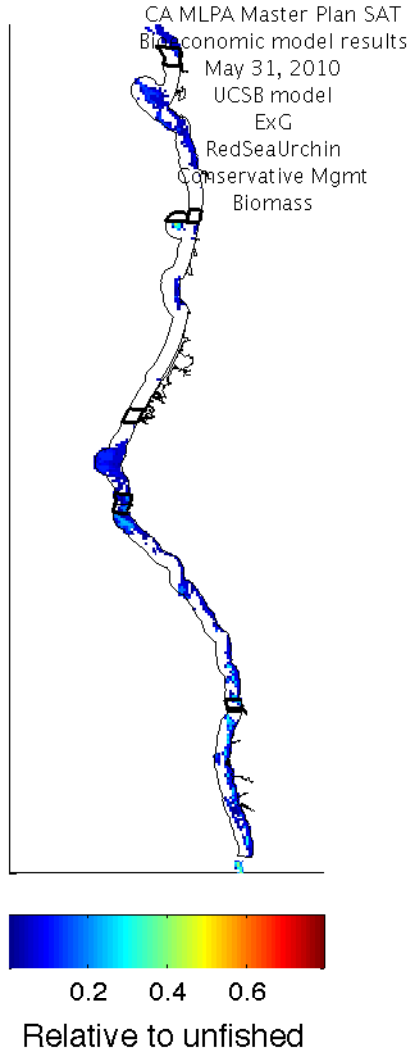

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
UnsucMgmt
Larval Supply
20
40
60
% Change

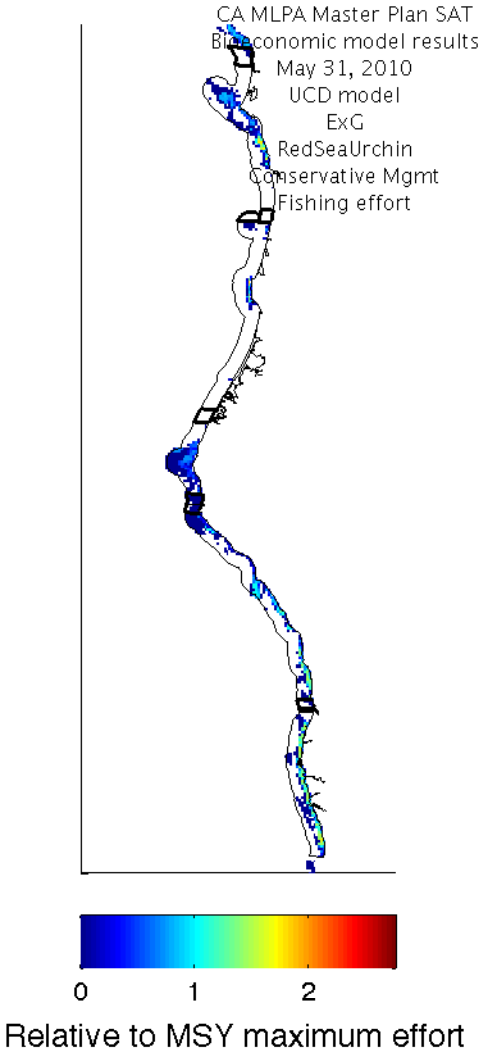

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
UnsucMgmt
arval Production
0
200
400
% Change

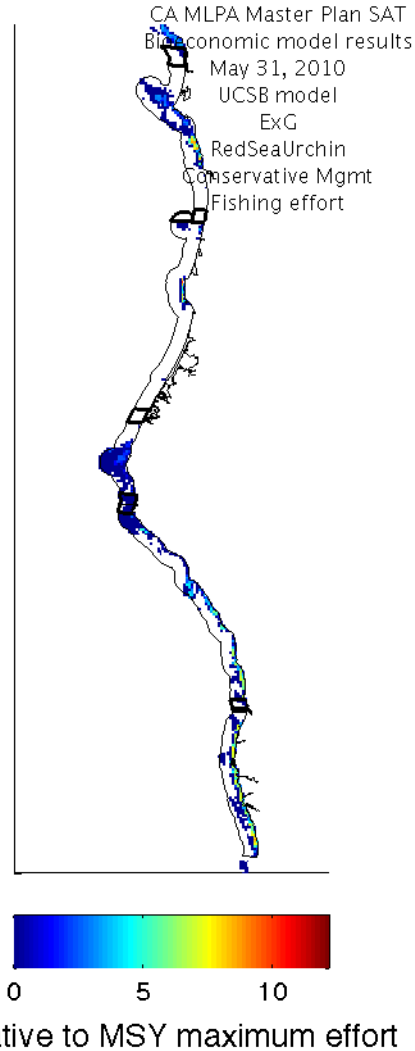

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedAbalone
Unsuccessful Mgmt
Fishing yield
0
1
2
3
Relative to MSY

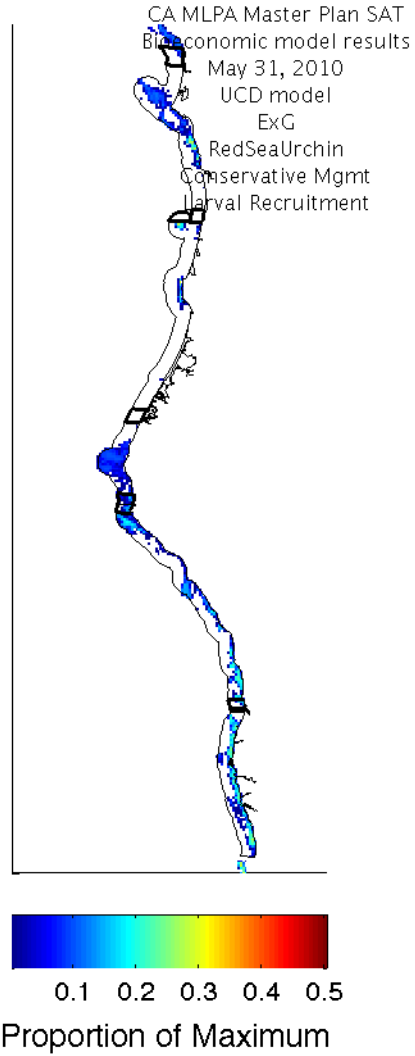

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedAbalone
Unsuccessful Mgmt
Fishing yield
0
0.2
0.4
0.6
Relative to MSY

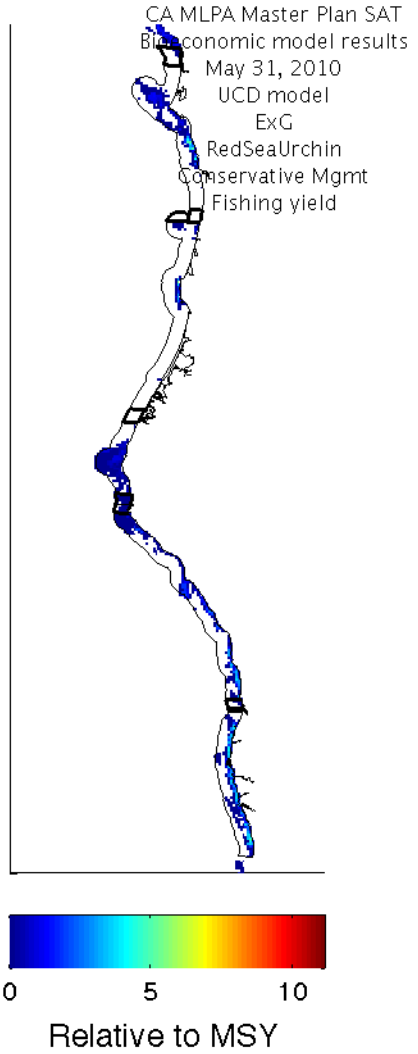

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Conservative Mgmt
Biomass
0
2
4
Relative to unfished

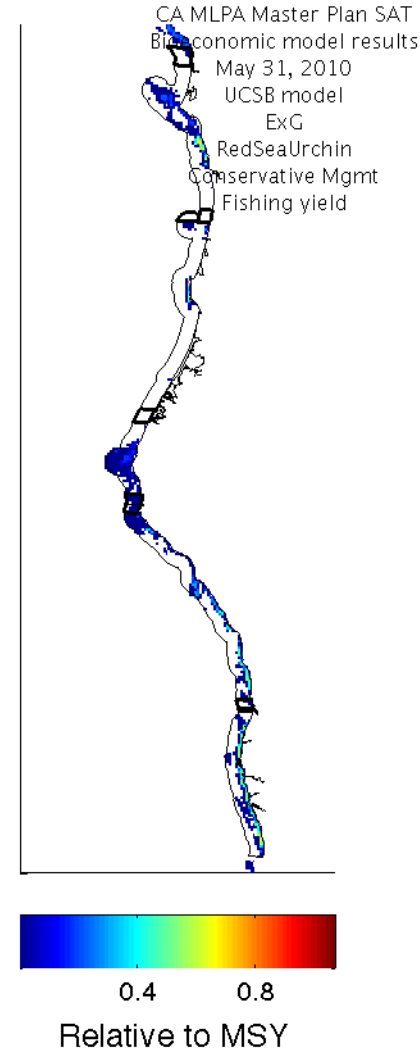

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
Conservative Mgmt
Biomass
0.2
0.4
0.6
Relative to unfished

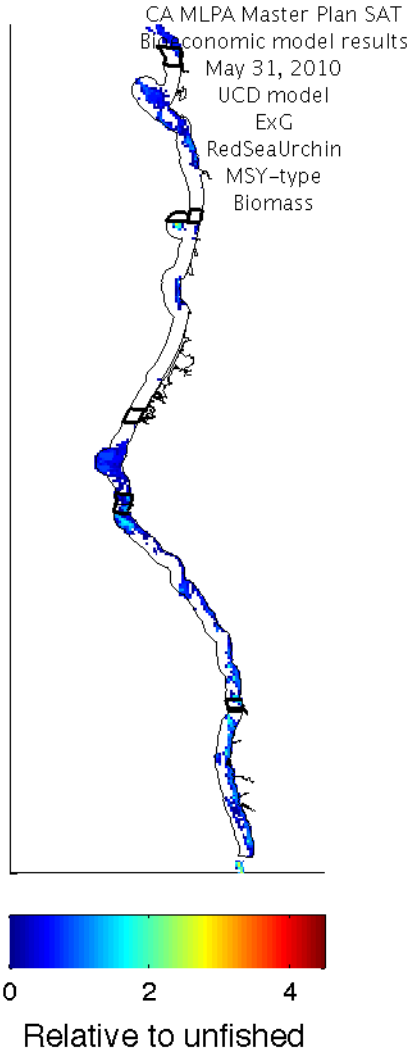

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Conservative Mgmt
Fishing effort
0
1
2
Relative to MSY maximum effort

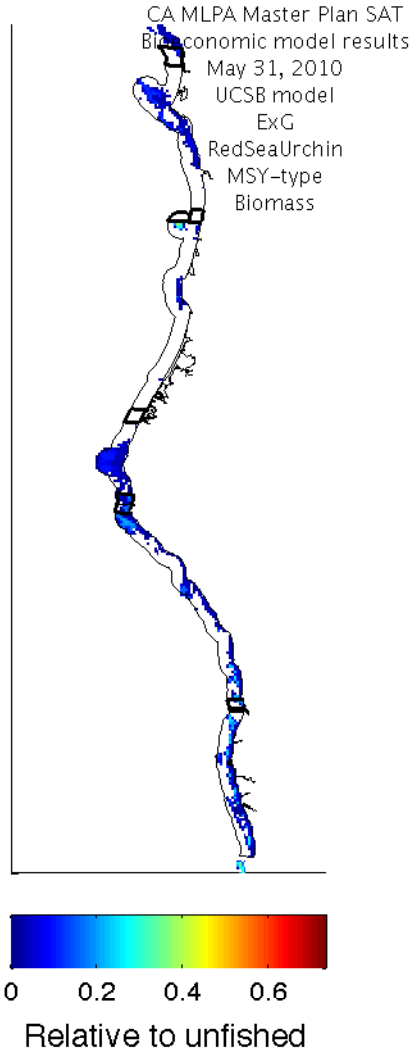

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

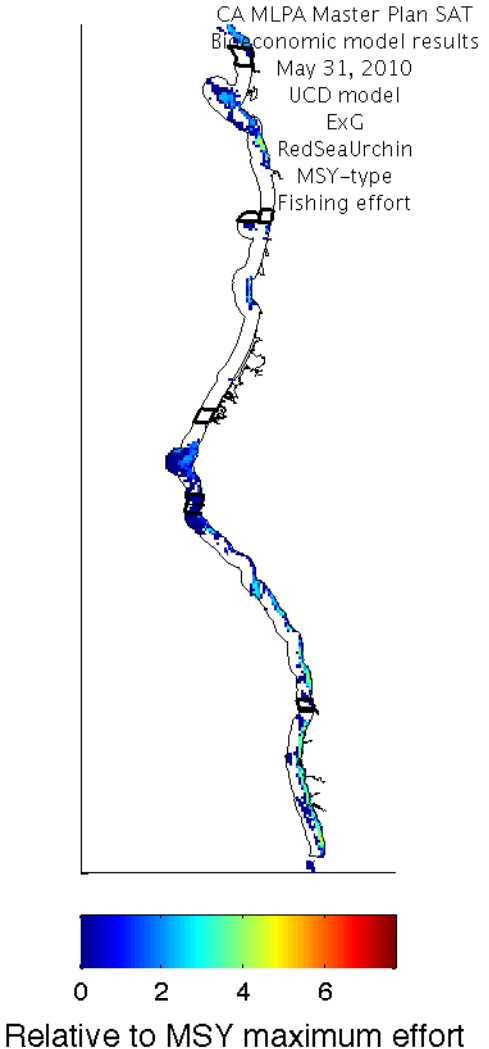

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
0.4
0.5
Proportion of Maximum

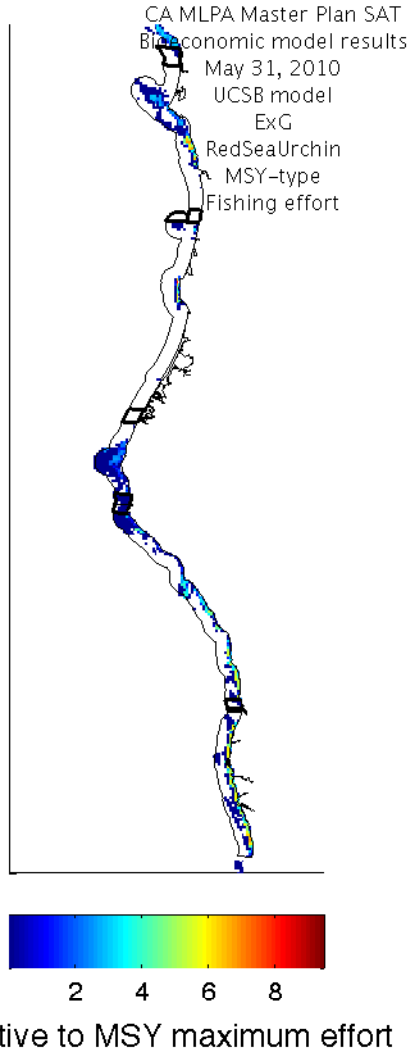

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Conservative Mgmt
Fishing yield
0
5
10
Relative to MSY

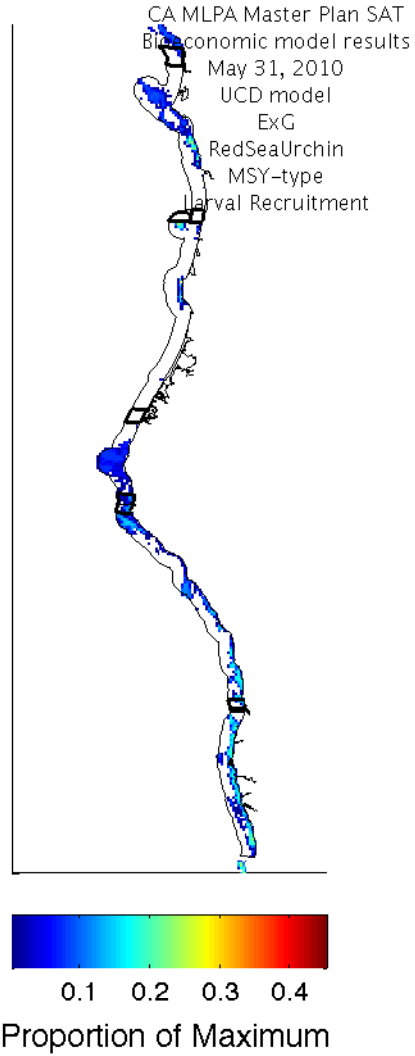

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
Conservative Mgmt
Fishing yield
0.4
0.8
Relative to MSY

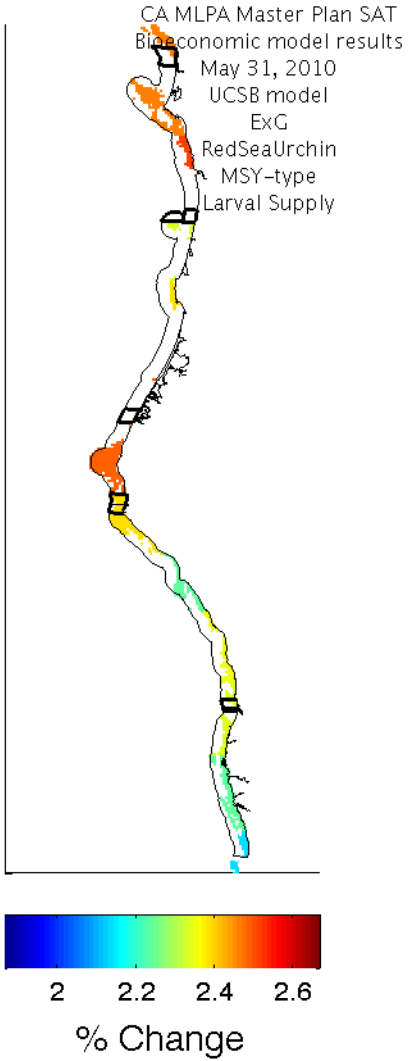

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
MSY-type
Biomass
0
2
4
Relative to unfished

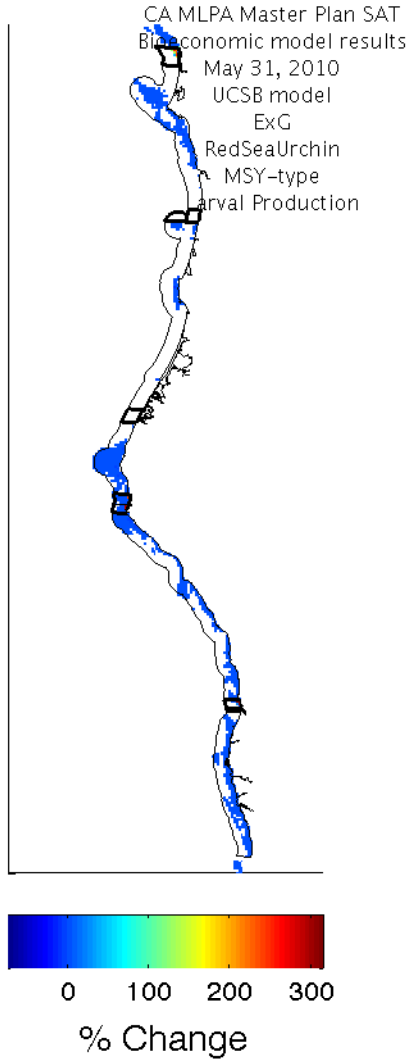

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
MSY-type
Biomass
0
0.2
0.4
0.6
Relative to unfished

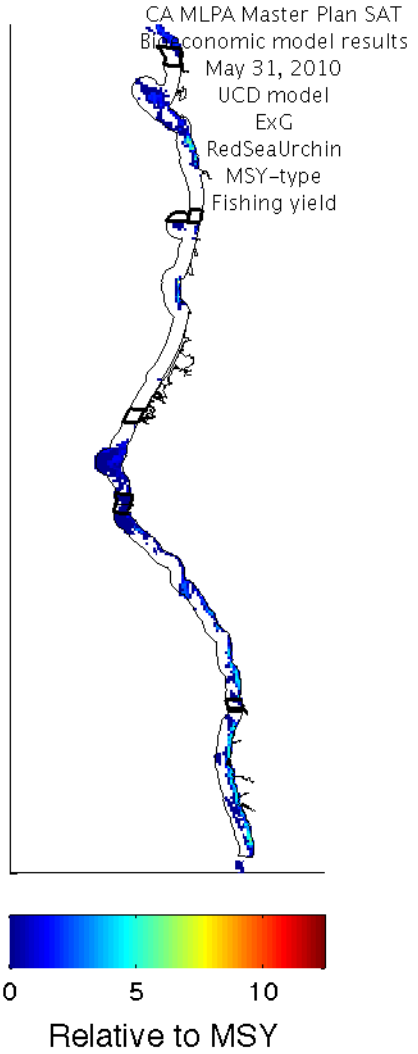

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
MSY-type
Fishing effort
0
2
4
6
Relative to MSY maximum effort

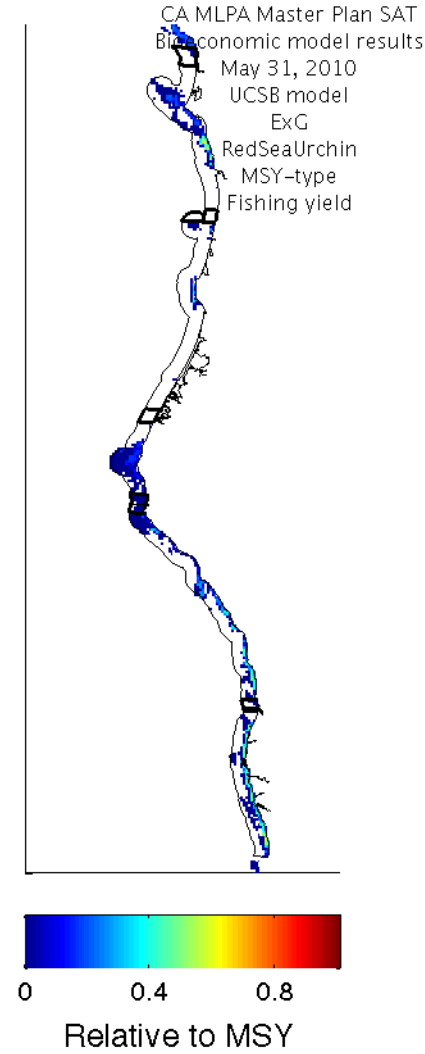

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
MSY-type
Fishing effort
2
4
6
8
Relative to MSY maximum effort

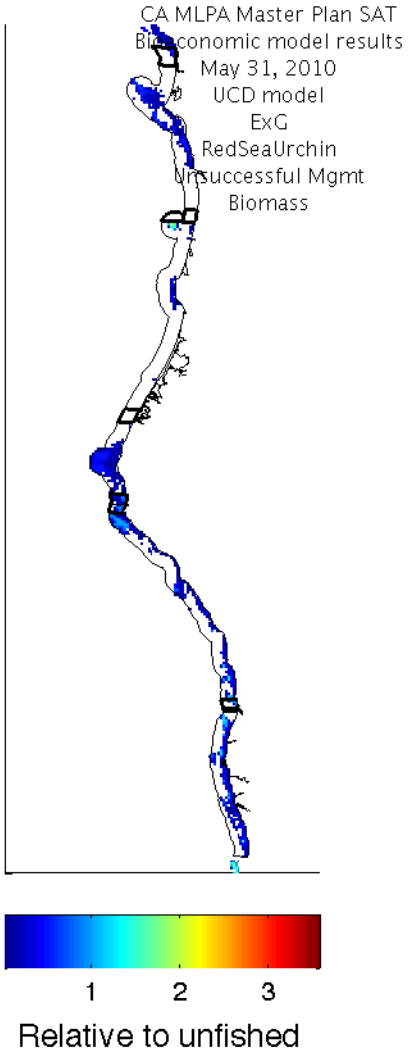

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
MSY-type
larval Recruitment
0.1
0.2
0.3
0.4
Proportion of Maximum

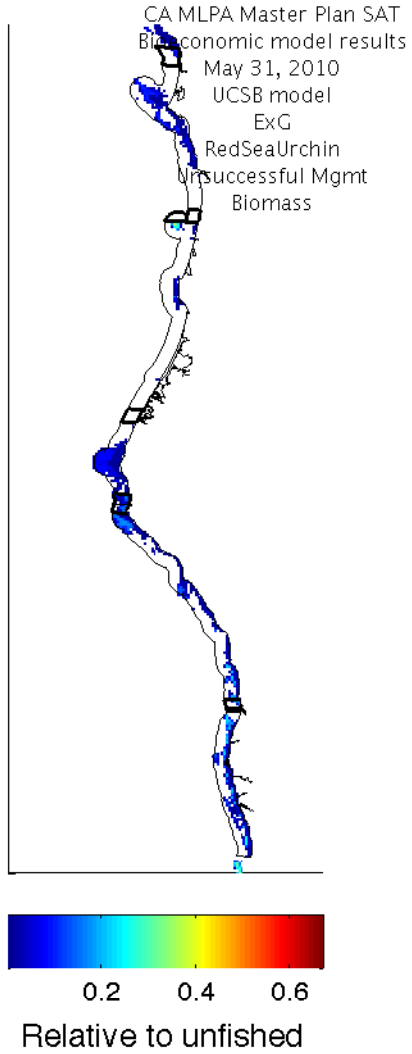

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
MSY-type
Larval Supply
2
2.2
2.4
2.6
% Change

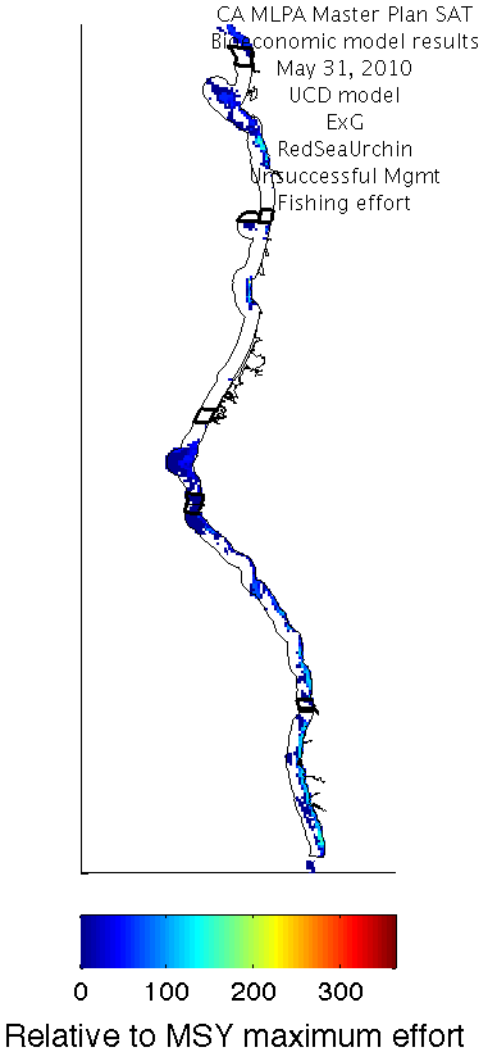

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
MSY-type
arval Production
0
100
200
300
% Change

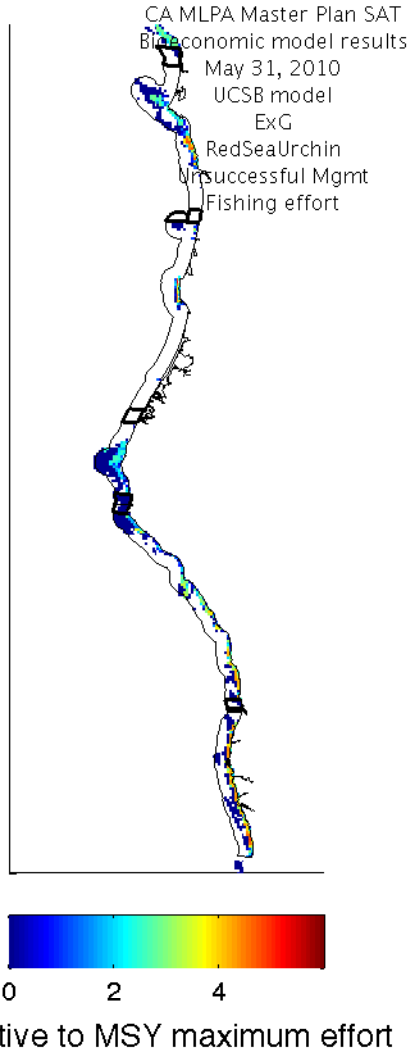

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
MSY-type
Fishing yield
0
5
10
Relative to MSY

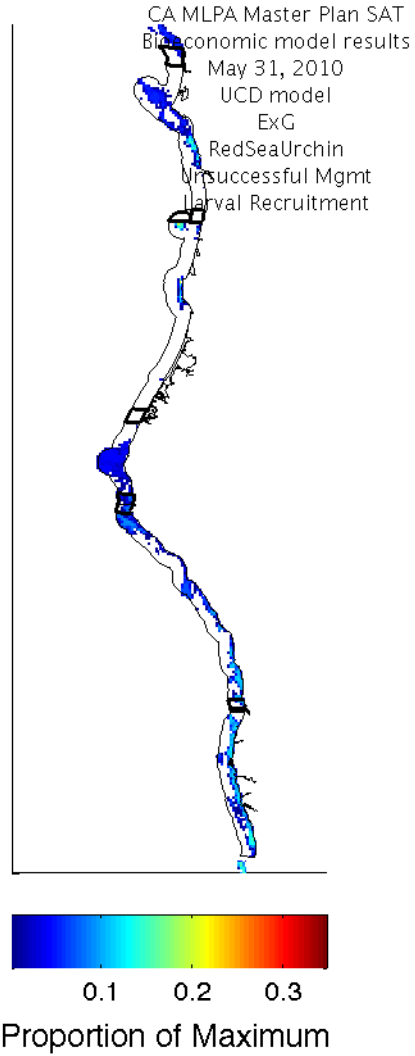

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

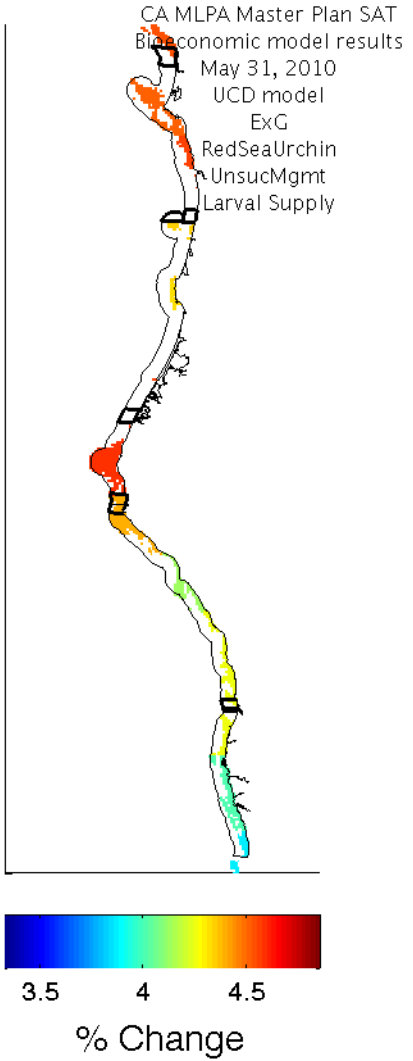

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Unsuccessful Mgmt
Biomass
1
2
3
Relative to unfished

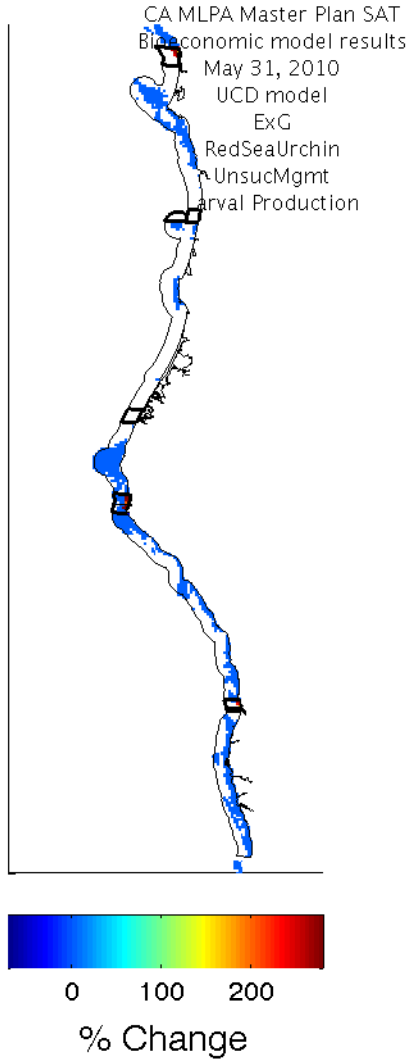

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
Unsuccessful Mgmt
Biomass
0.2
0.4
0.6
Relative to unfished

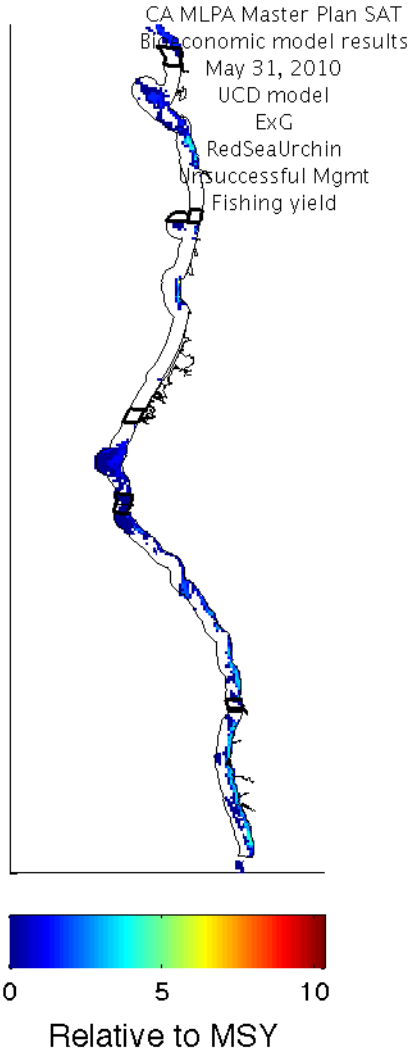

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Unsuccessful Mgmt
Fishing effort
0
100
200
300
Relative to MSY maximum effort

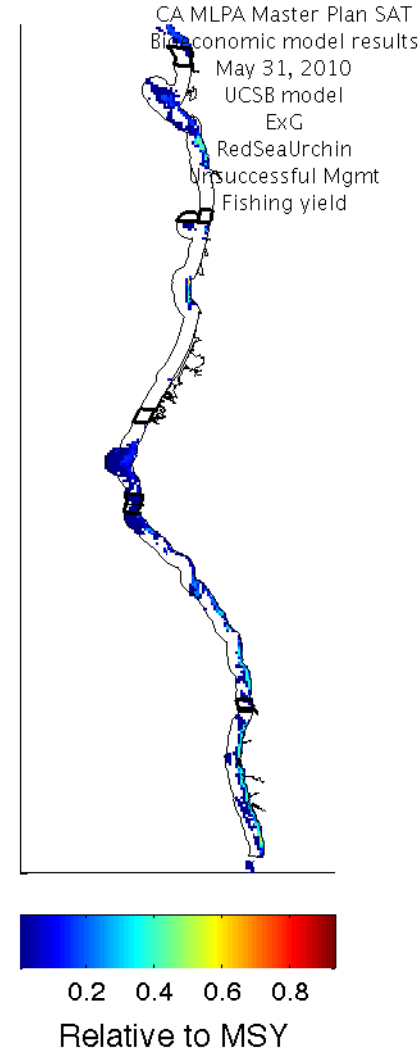

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort

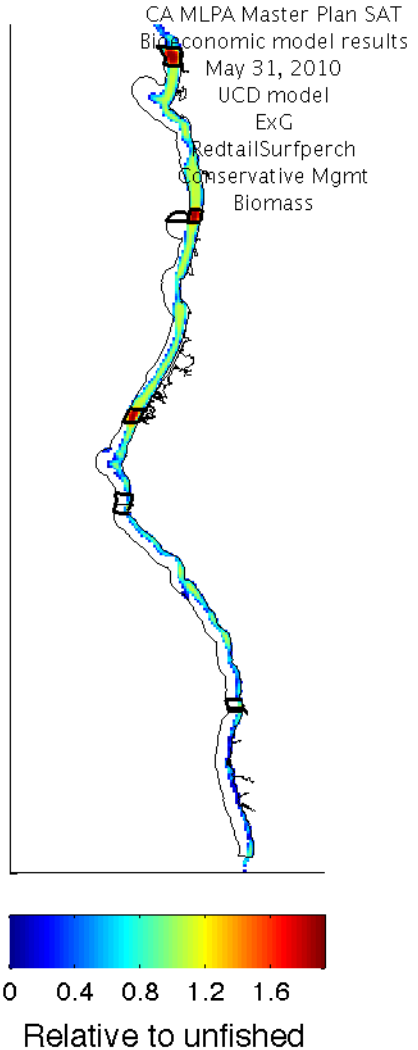

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Unsuccessful Mgmt
larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

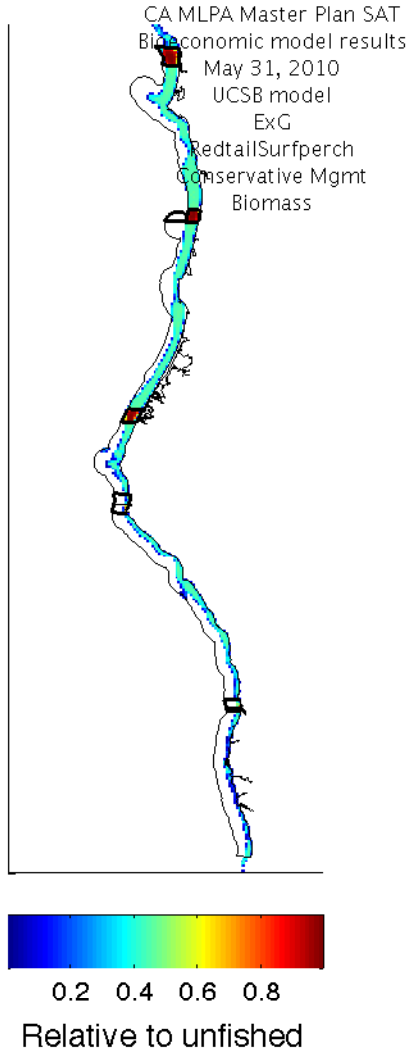

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
UnsucMgmt
Larval Supply
3.5
4
4.5
% Change

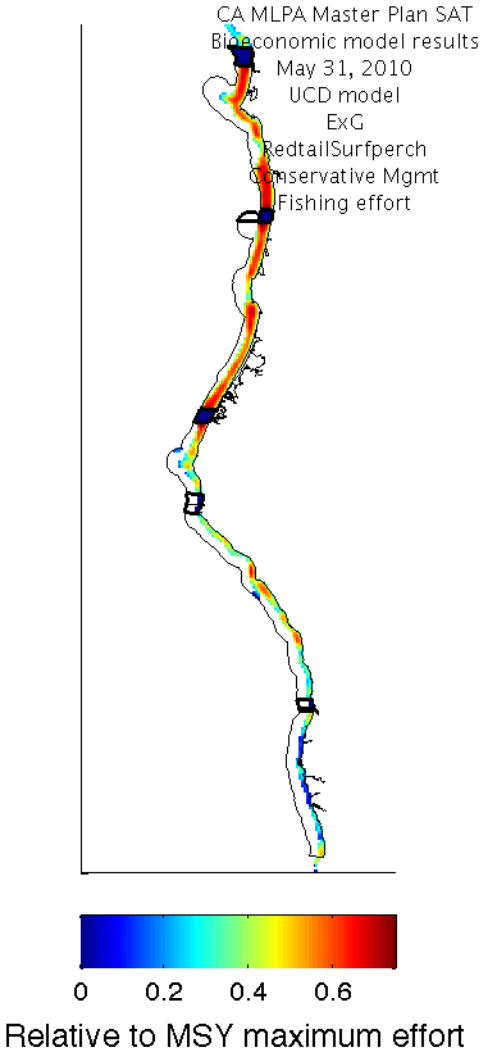

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
UnsucMgmt
arval Production
0
100
200
% Change

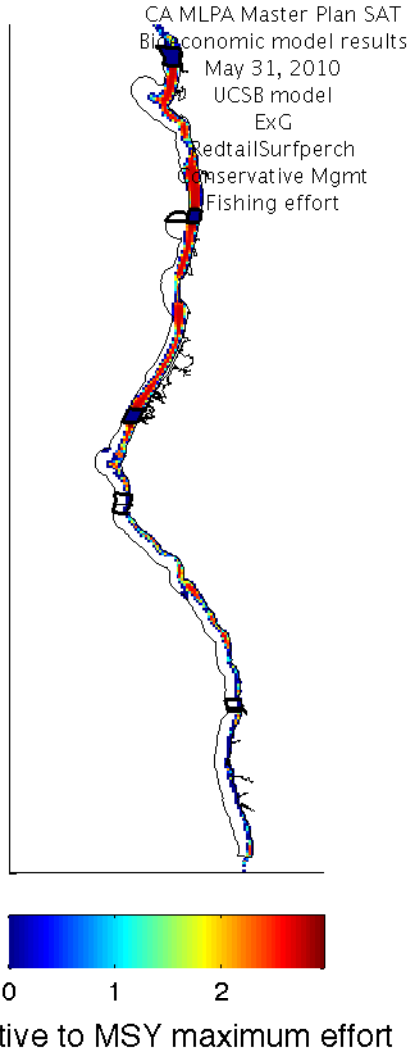

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
0
5
10
Relative to MSY

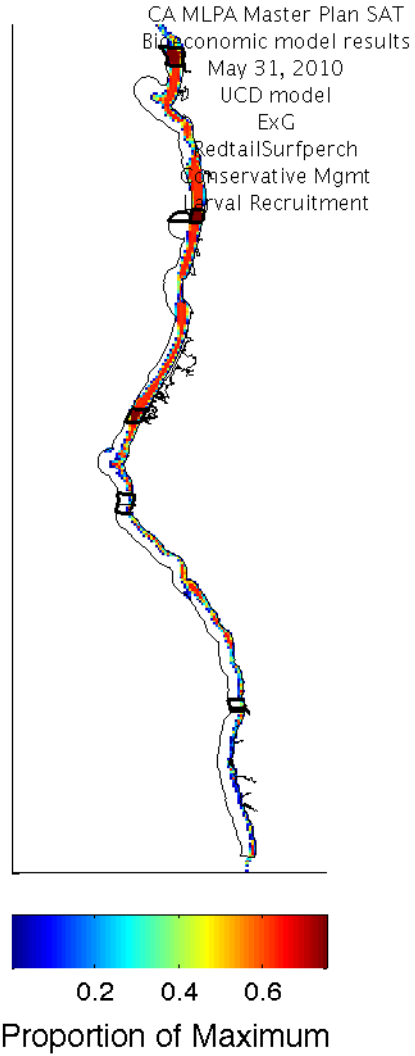

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
0.2
0.4
0.6
0.8
Relative to MSY

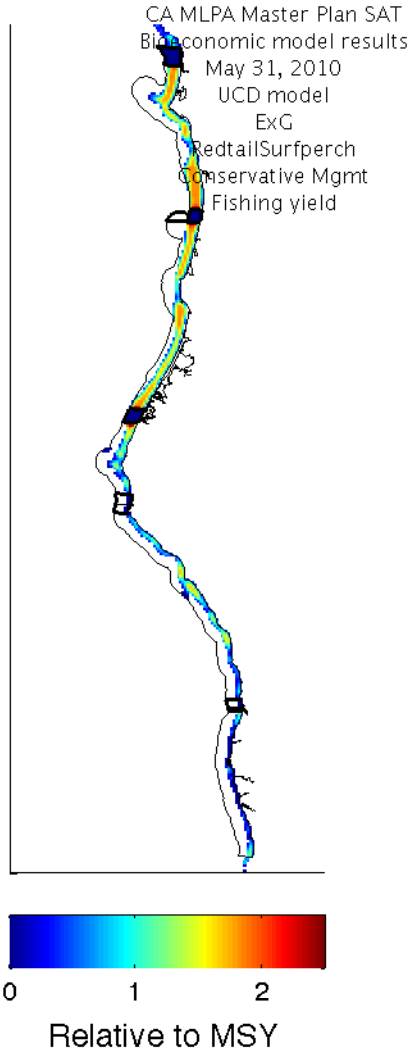

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
Conservative Mgmt
Biomass
0
0.4
0.8
1.2
1.6
Relative to unfished

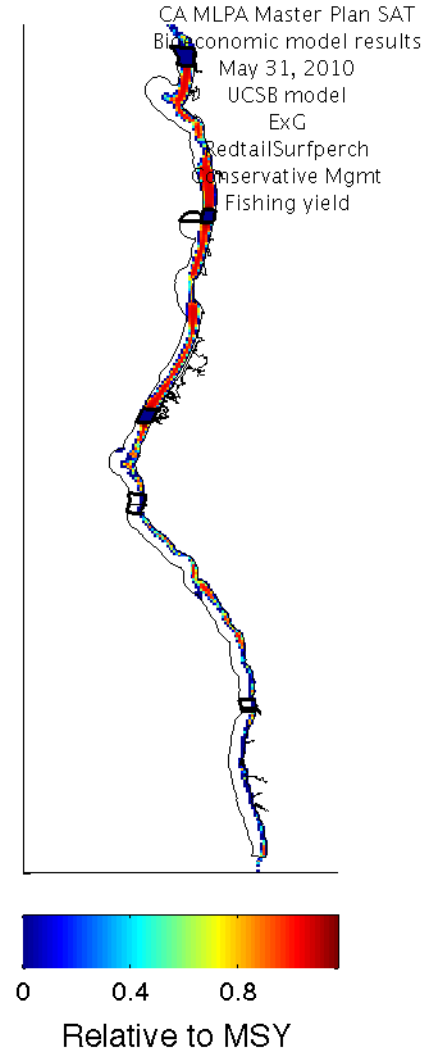

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
Conservative Mgmt
Biomass
0.2
0.4
0.6
0.8
Relative to unfished

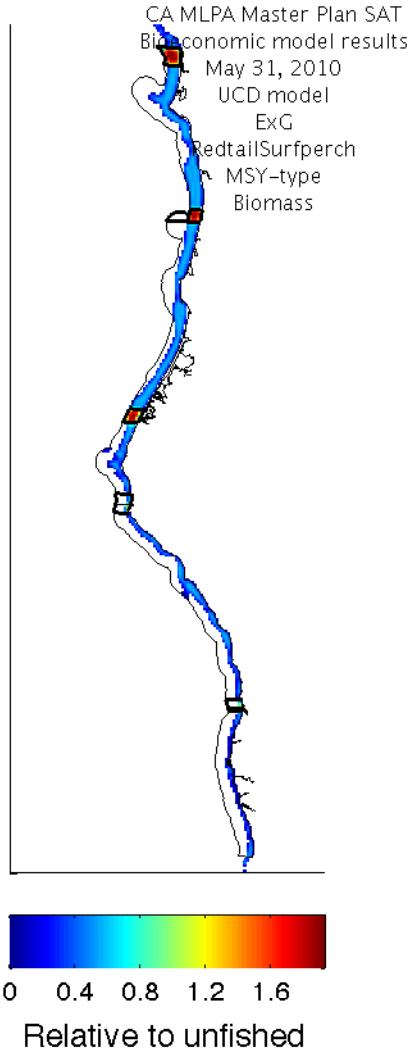

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
Conservative Mgmt
Fishing effort
0
0.2
0.4
0.6
Relative to MSY maximum effort

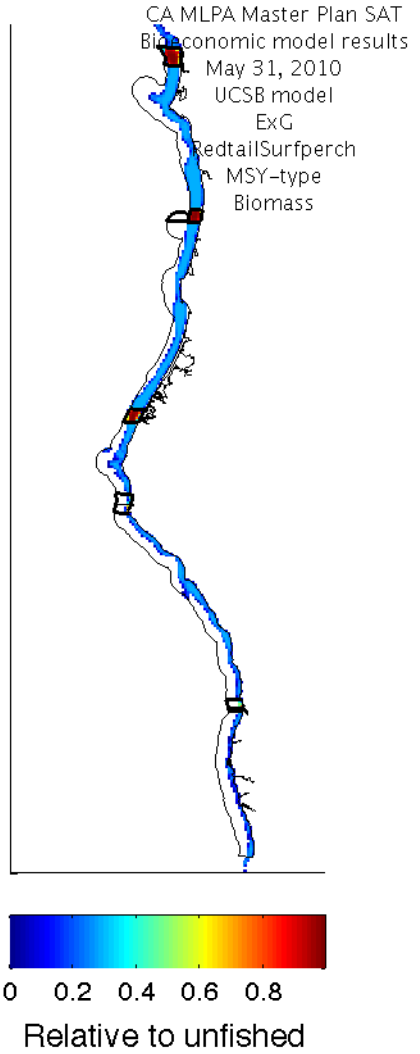

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
Conservative Mgmt
Fishing effort
0
1
2
Relative to MSY maximum effort

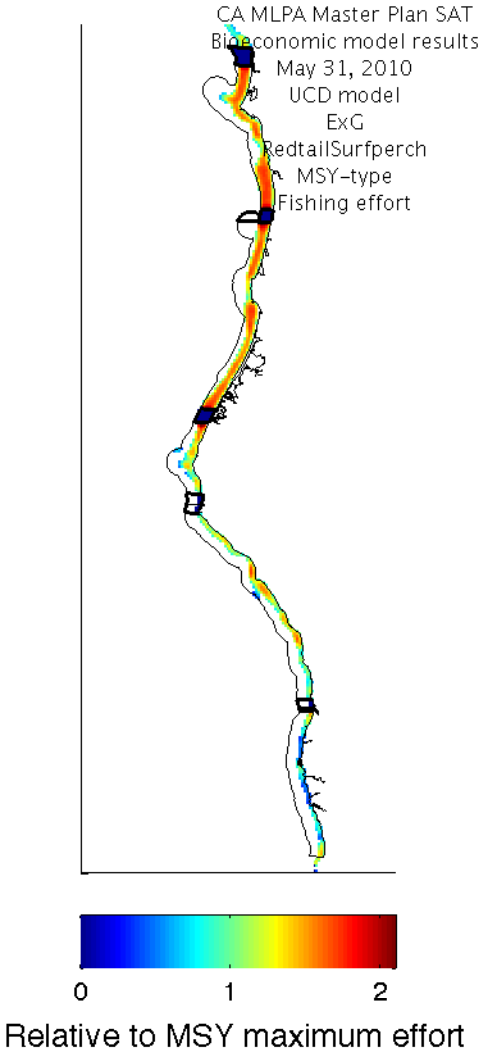

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
Conservative Mgmt
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum

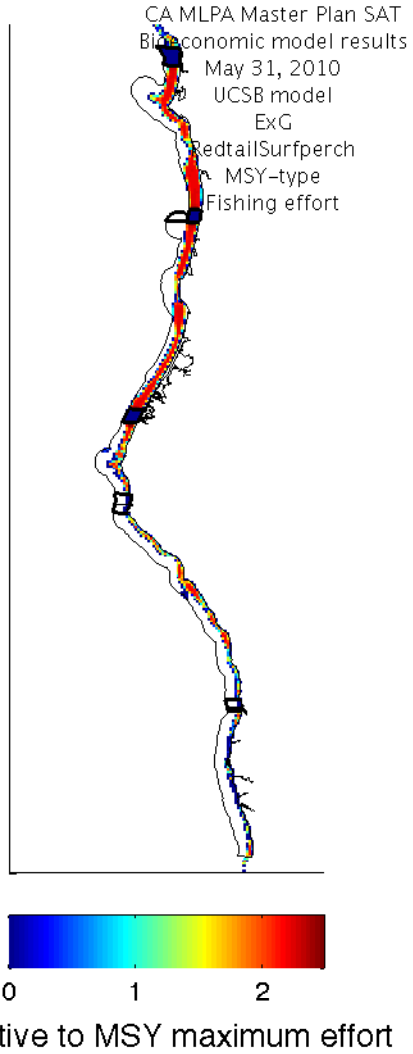

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
Conservative Mgmt
Fishing yield
0
1
2
Relative to MSY

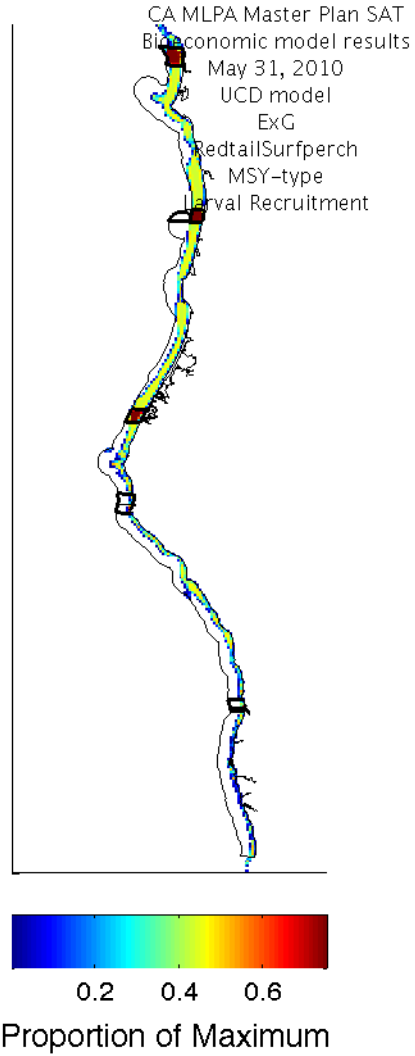

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY

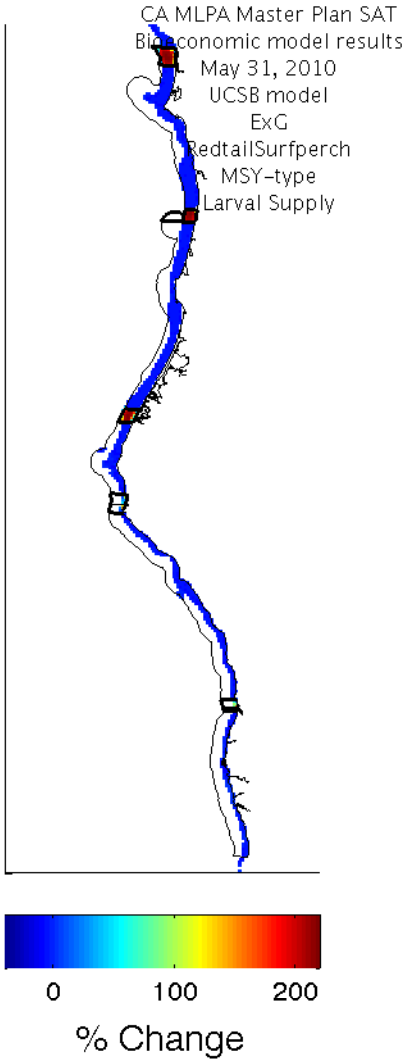

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
MSY-type
Biomass
0
0.4
0.8
1.2
1.6
Relative to unfished

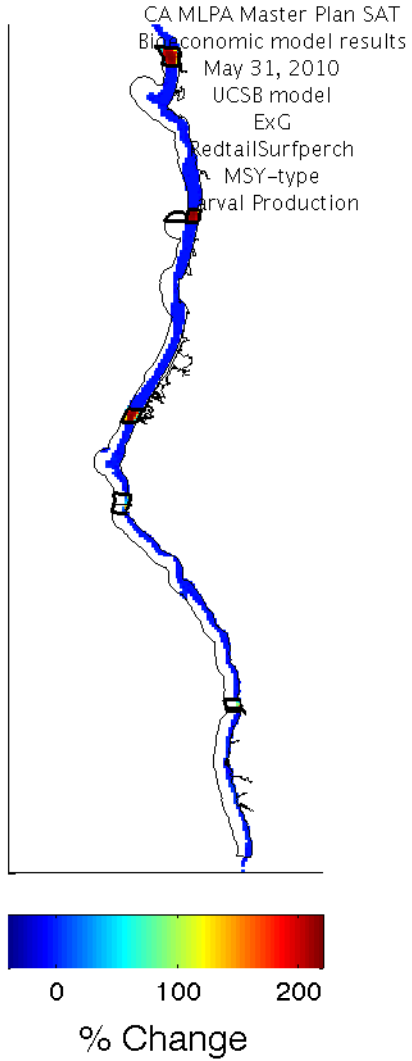

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
MSY-type
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

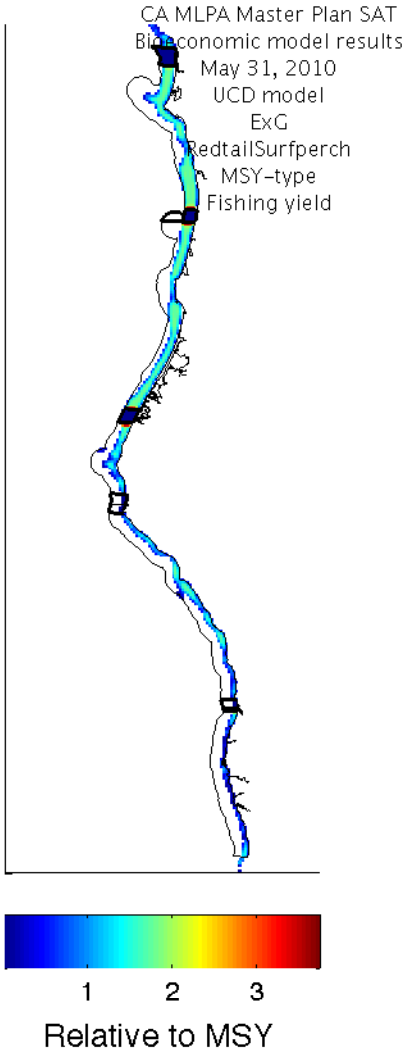

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
MSY-type
Fishing effort
0
1
2
Relative to MSY maximum effort

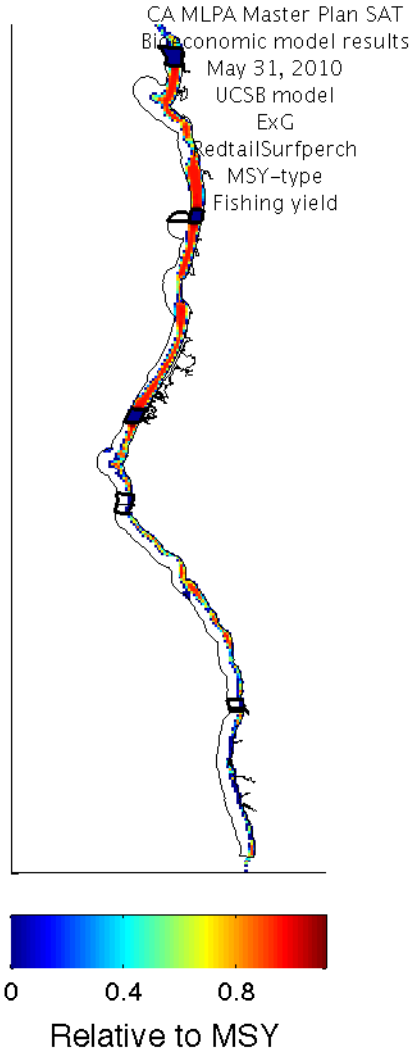

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
MSY-type
Fishing effort
0
1
2
Relative to MSY maximum effort

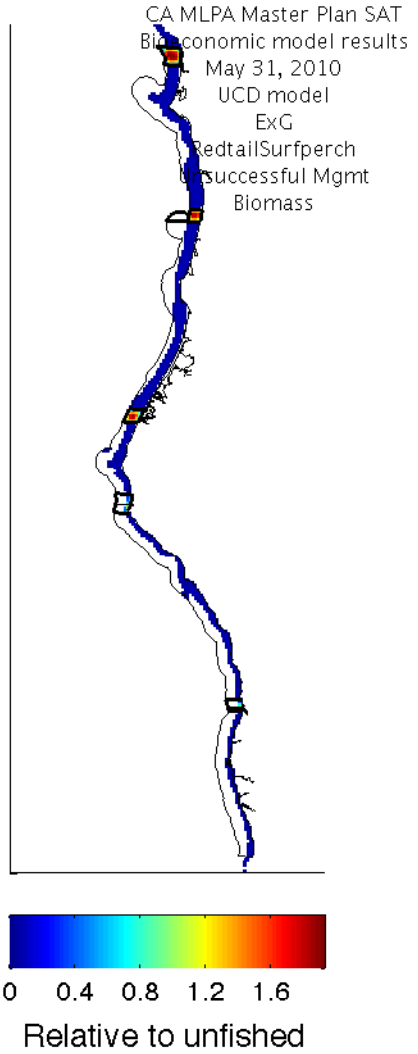

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
MSY-type
larval Recruitment
0.2
0.4
0.6
Proportion of Maximum

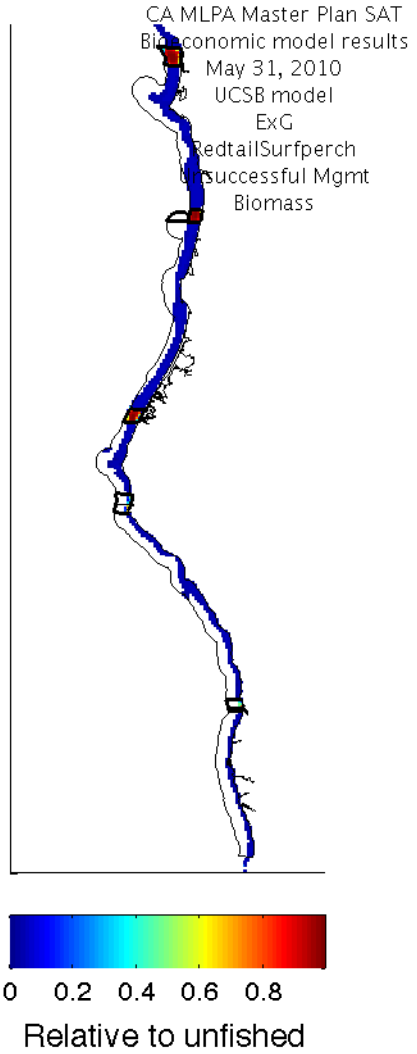

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
MSY-type
Larval Supply
0
100
200
% Change

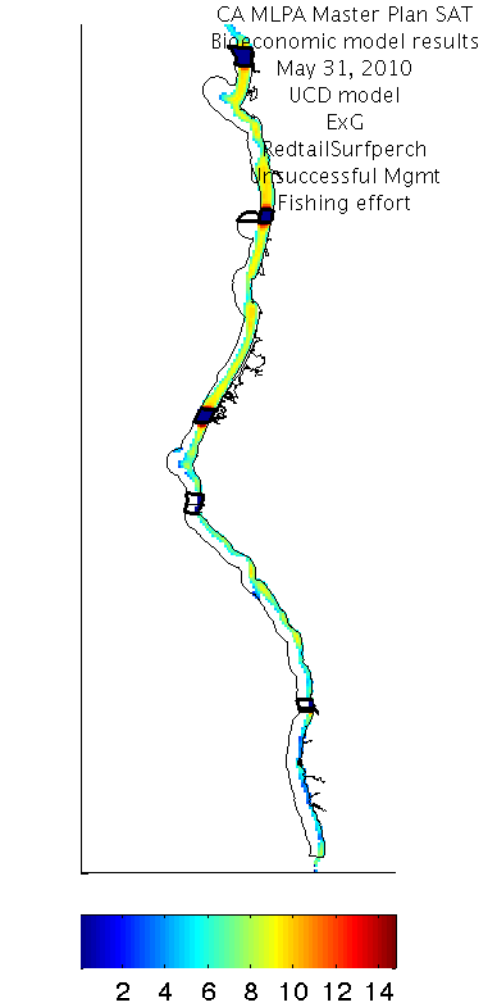

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
MSY-type
Larval Production
0
100
200
% Change

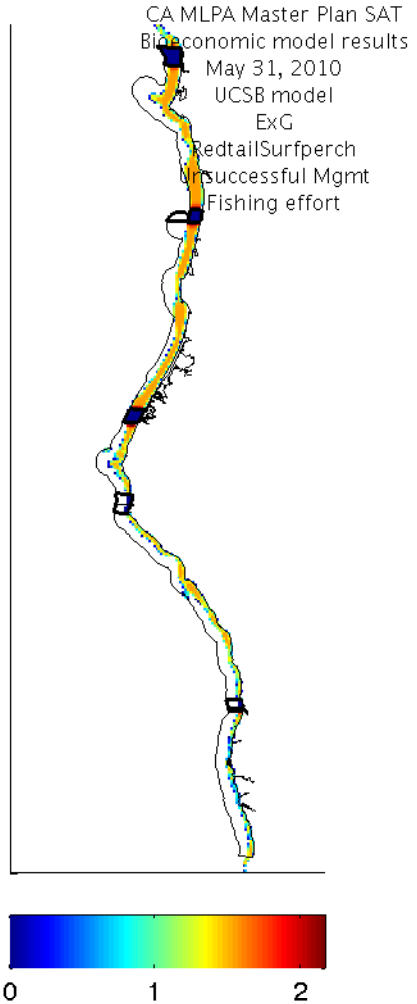

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
MSY-type
Fishing yield
1
2
3
Relative to MSY

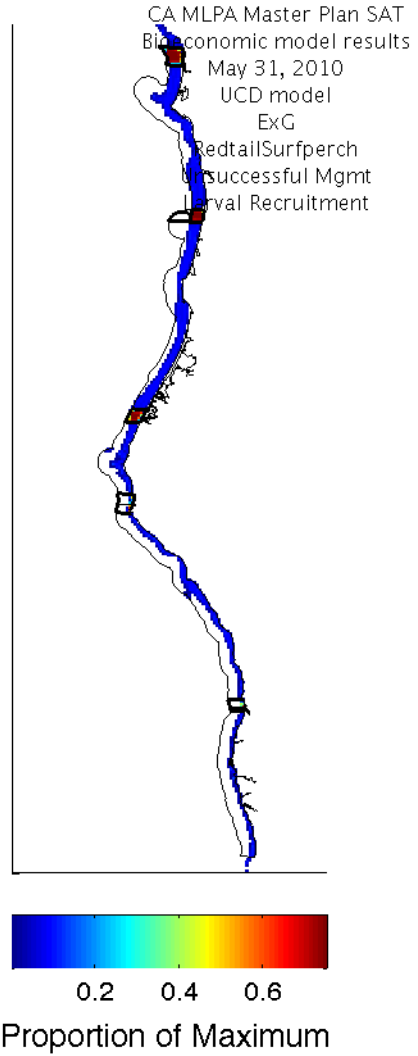

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

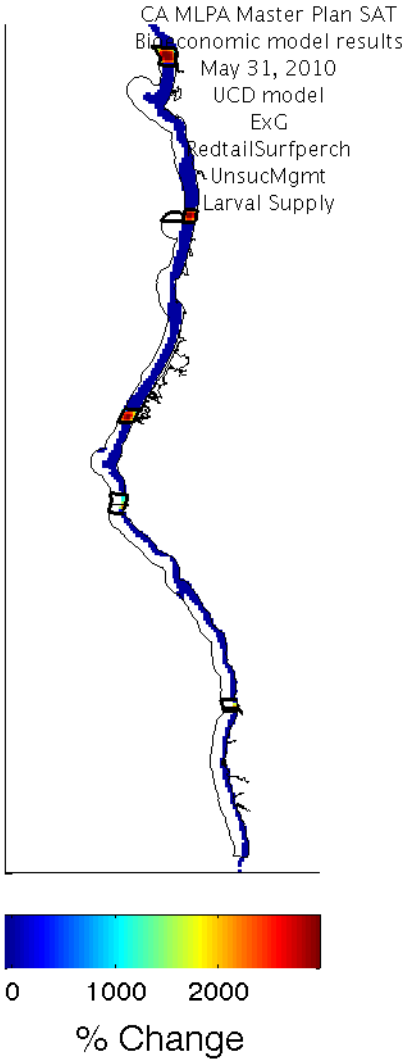

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
Unsuccessful Mgmt
Biomass
0
0.4
0.8
1.2
1.6
Relative to unfished

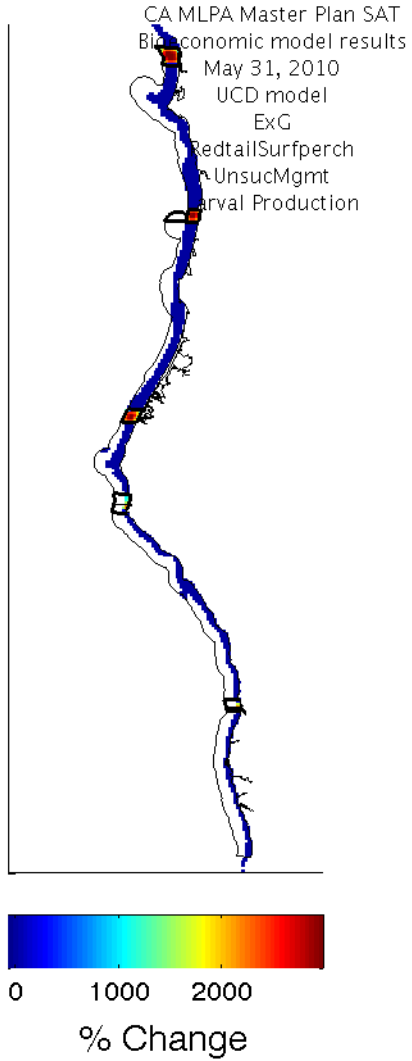

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
Unsuccessful Mgmt
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

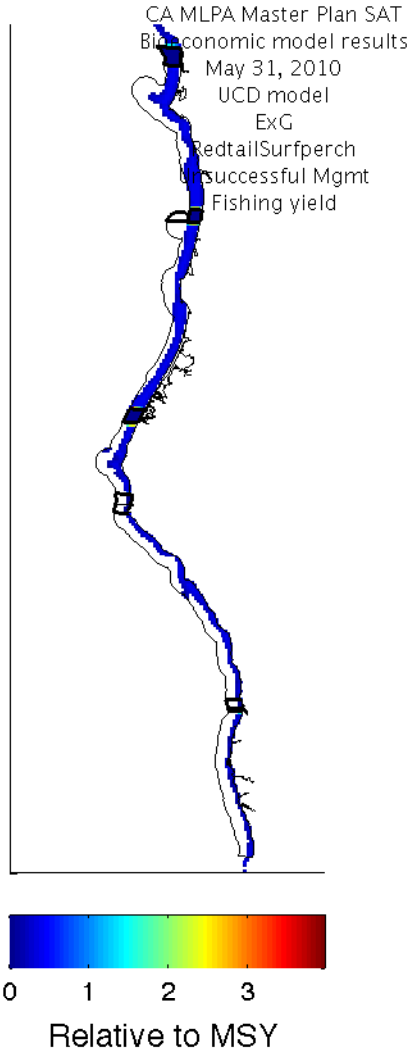

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCD model
ExG
RedtailSurfperch
Unsuccessful Mgmt
Fishing effort
2 4 6 8 10 12 14
Relative to MSY maximum effort

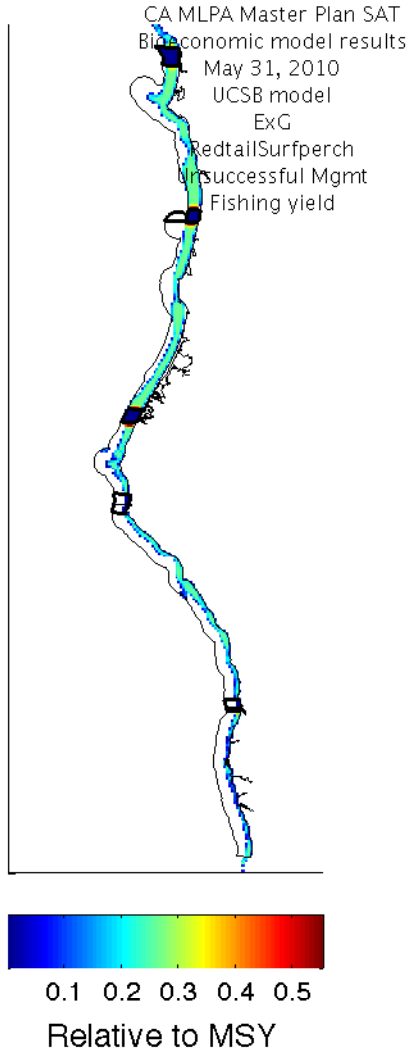

CA MLPA Master Plan SAT
Bioeconomic model results
May 31, 2010
UCSB model
ExG
RedtailSurfperch
Unsuccessful Mgmt
Fishing effort
0 1 2
Relative to MSY maximum effort


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


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


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


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