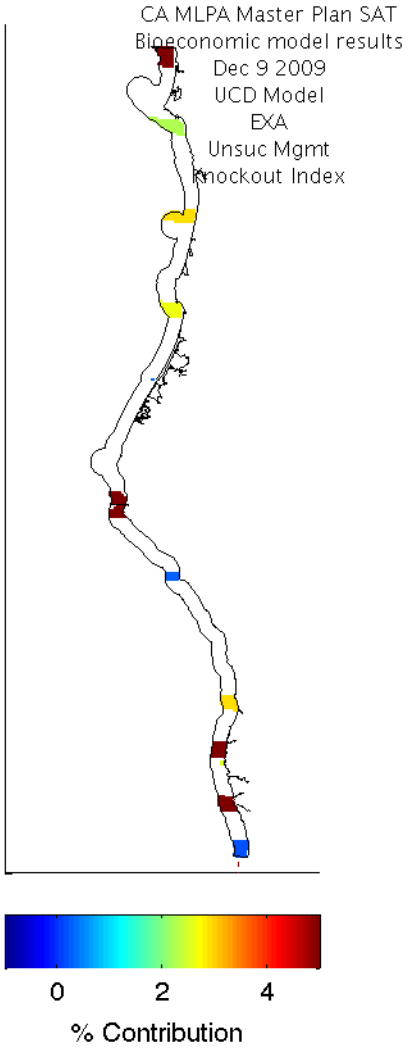
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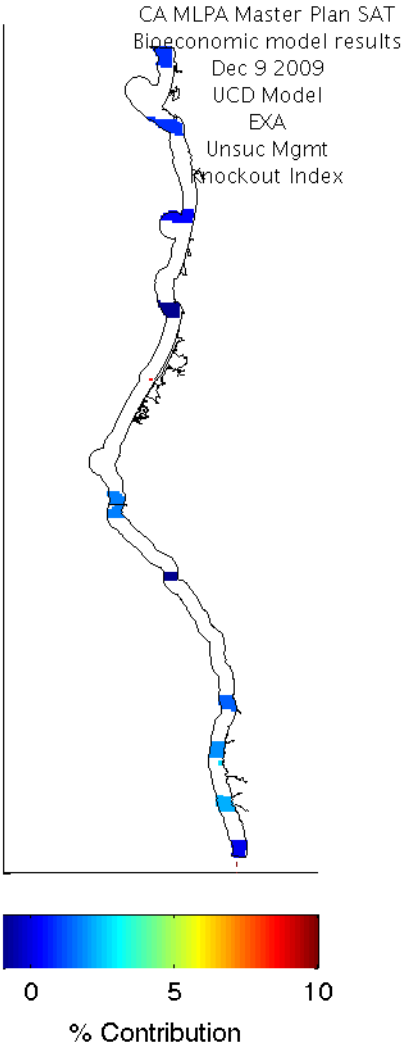
Bioeconomic model results
Dec 9 2009
UCD Model
EXA
Unsuc Mgmt
Knockout Index
0
2
4
% Contribution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Unsuc Mgmt
Knockout Index
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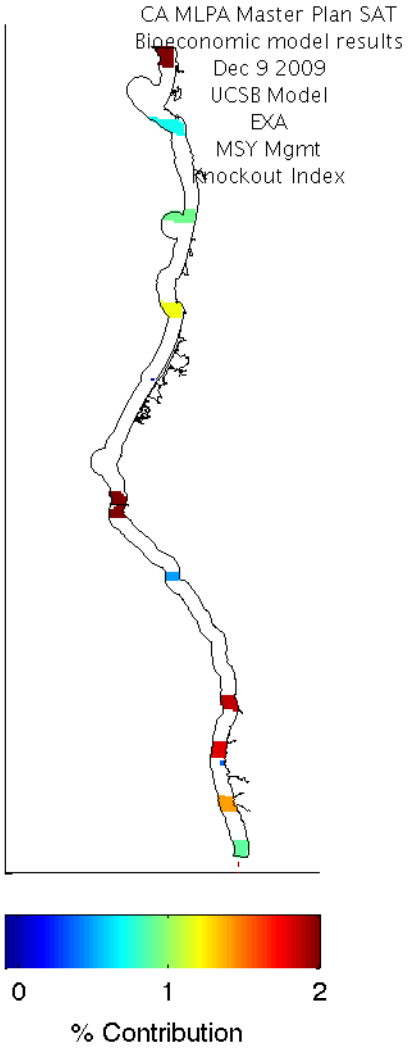
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Dec 9 2009
UCSB Model
EXA
MSY Mgmt
Knockout Index
0
1
2
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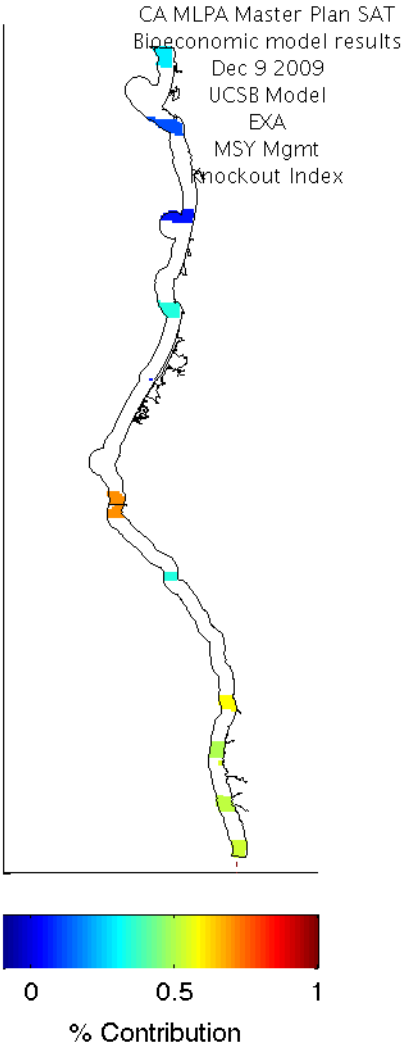
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Dec 9 2009
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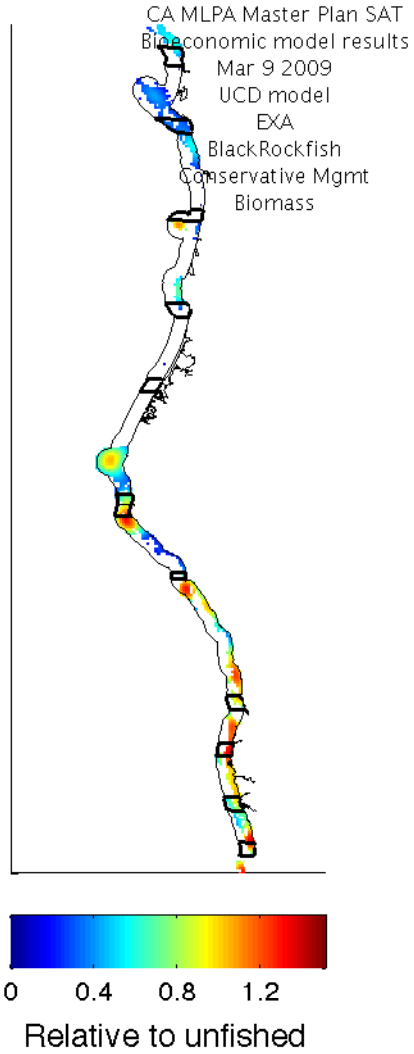
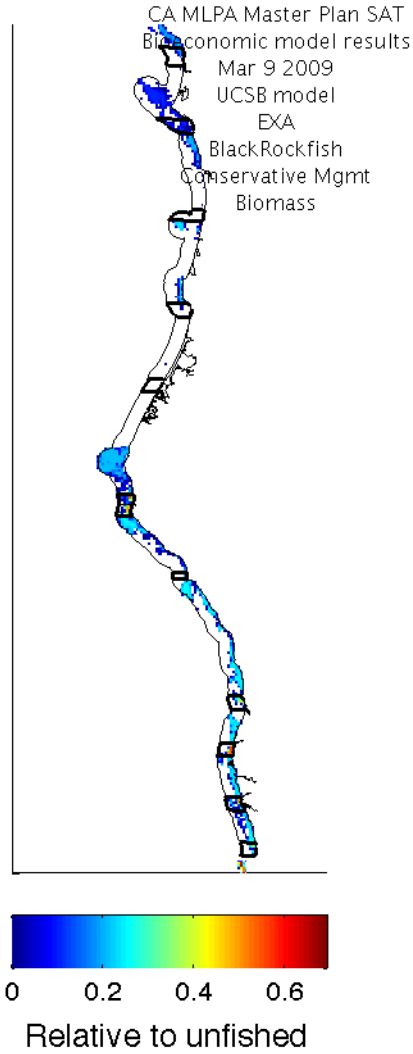
EXA
MSY Mgmt
Knockout Index
0
0.5
1
% Contribution


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
Conservative Mgmt
Biomass
0
0.4
0.8
1.2
Relative to unfished


CA MLPA Master Plan SAT
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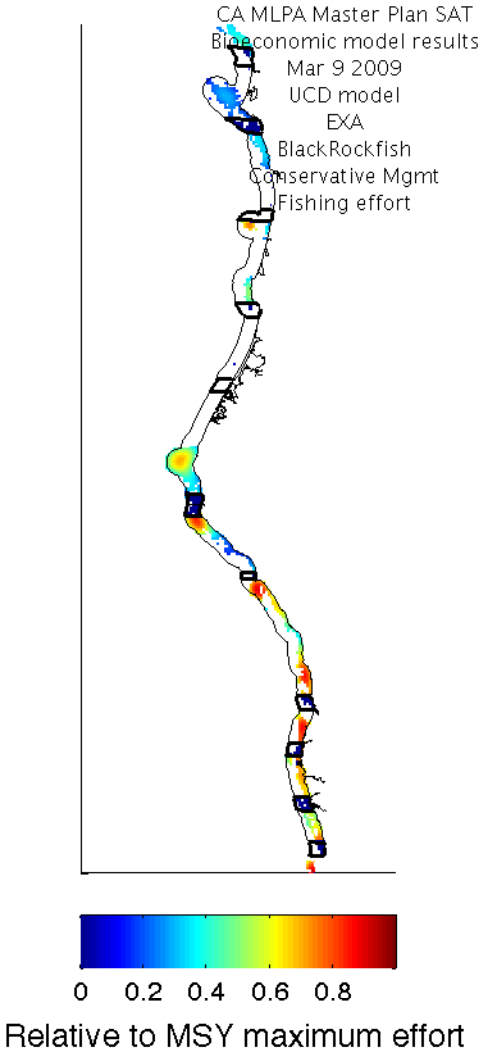
UCSB model
EXA
BlackRockfish
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
Relative to unfished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Bioeconomic model results
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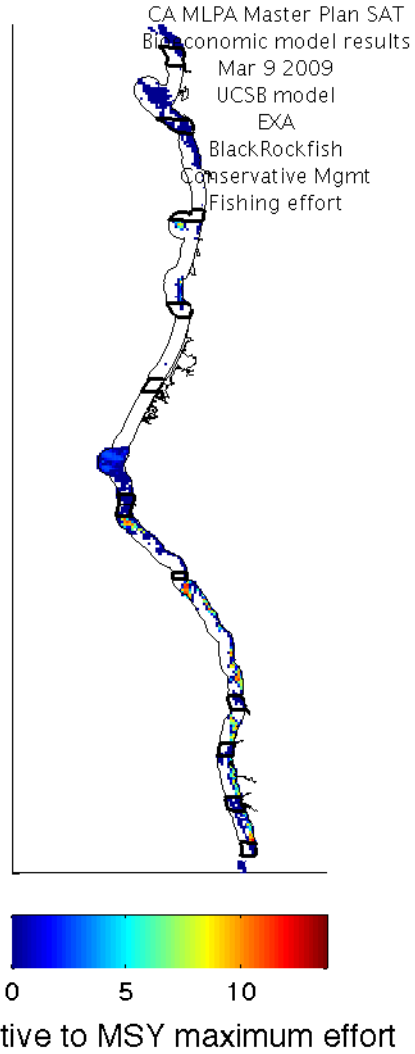
UCD model
EXA
BlackRockfish
Conservative Mgmt
Fishing effort
0
0.2
0.4
0.6
0.8
Relative to MSY maximum effort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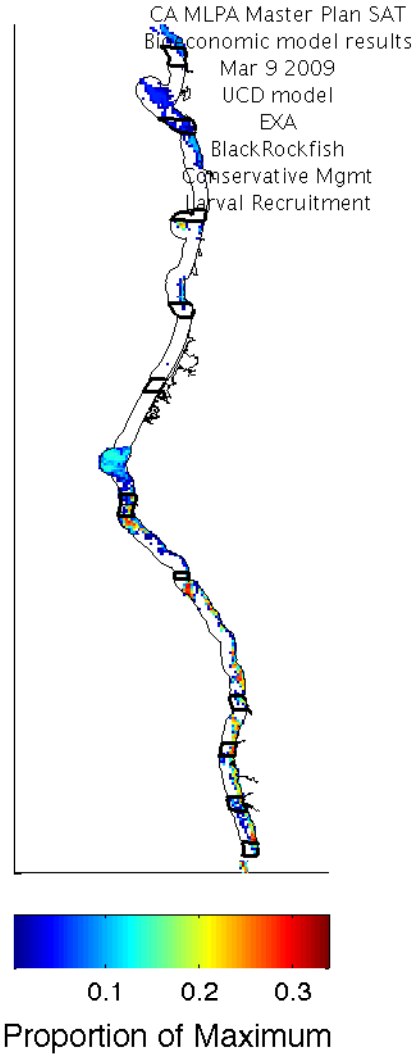
Mar 9 2009
UCSB model
EXA
BlackRockfish
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort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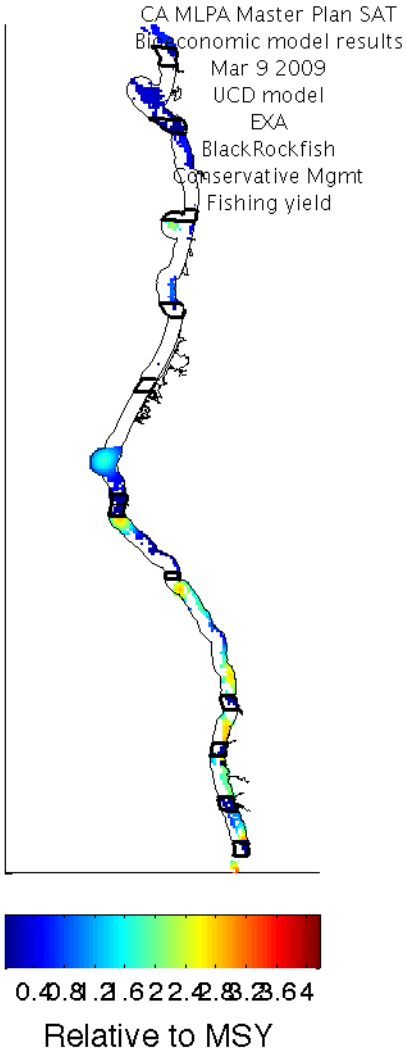
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
Proportion of Maximum


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
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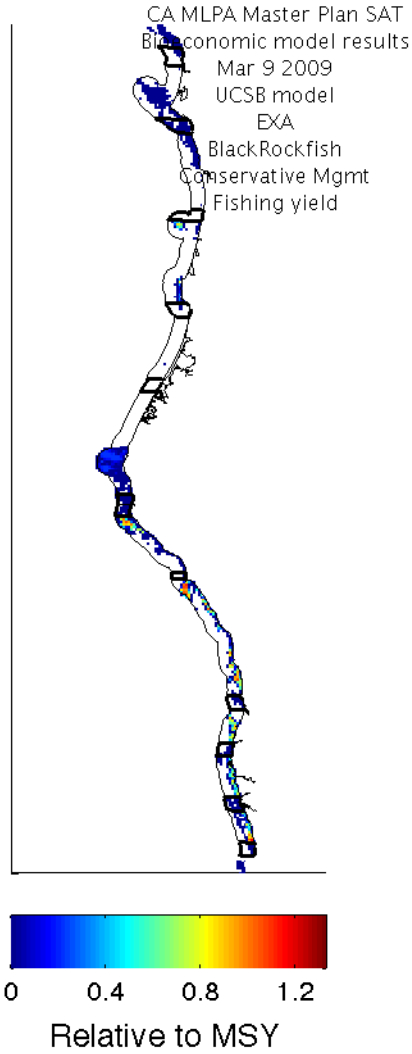
EXA
BlackRockfish
Conservative Mgmt
Fishing yield
0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4
Relative to MSY


CA MLPA Master Plan SAT
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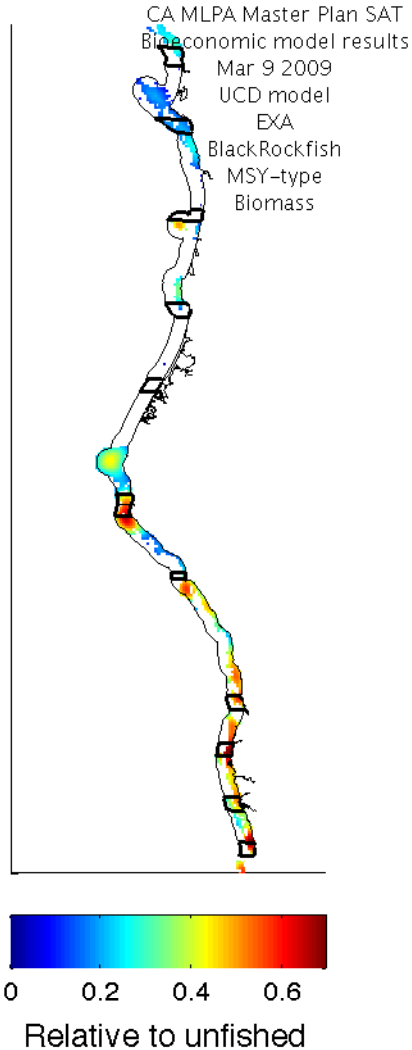
EXA
BlackRockfish
Conservative Mgmt
Fishing yield
0
0.4
0.8
1.2
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
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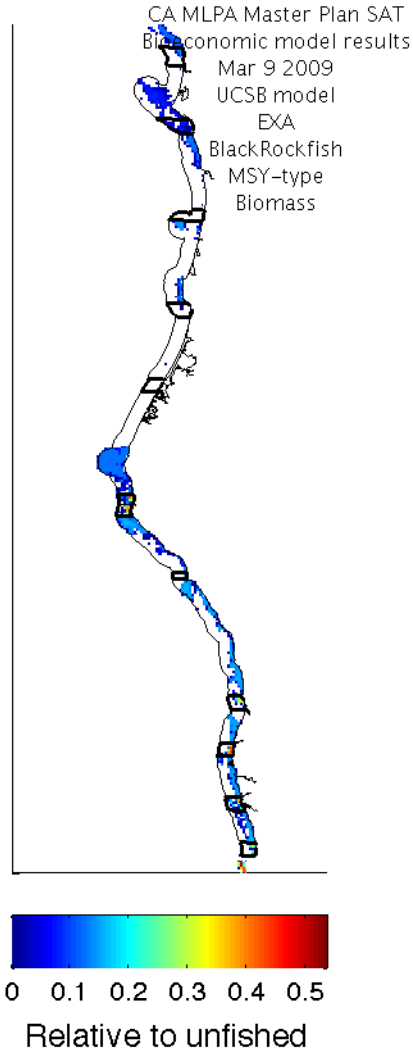
UCD model
EXA
BlackRockfish
MSY-type
Biomass
0
0.2
0.4
0.6
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
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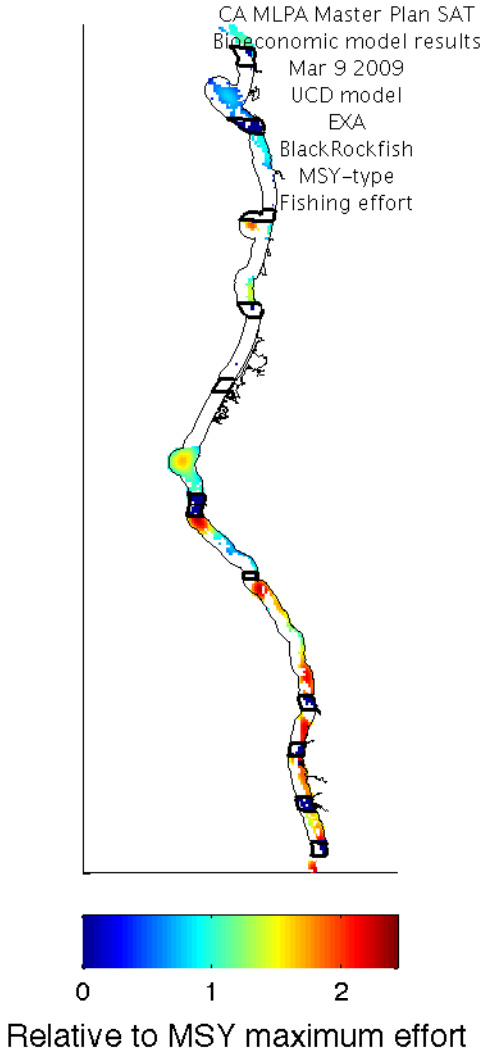
BlackRockfish
MSY-type
Biomass
0
0.1
0.2
0.3
0.4
0.5
Relative to unfished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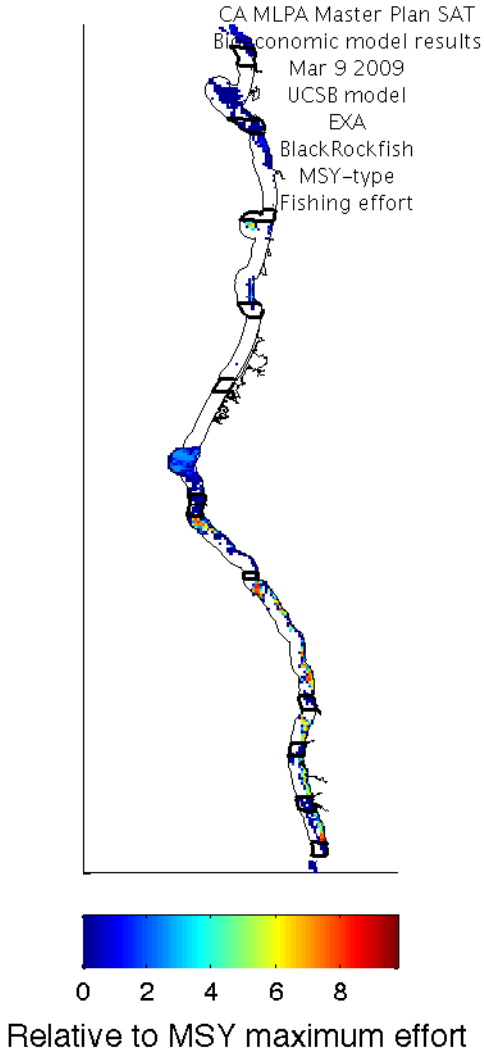
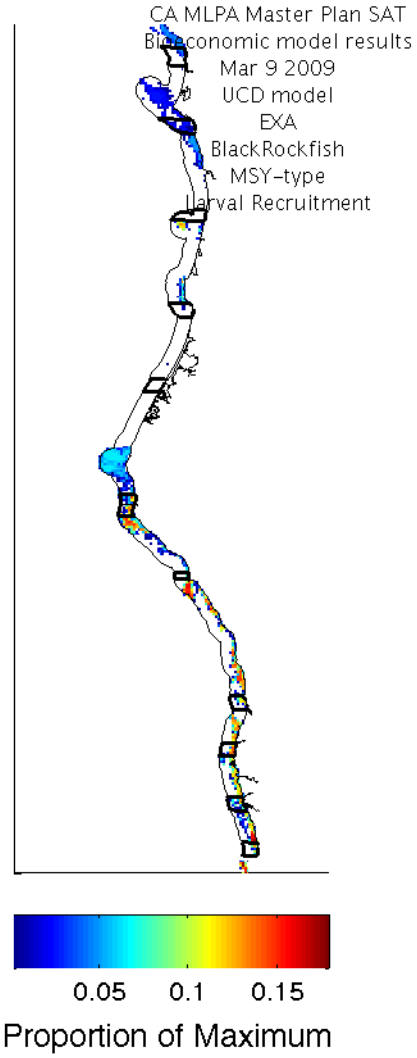
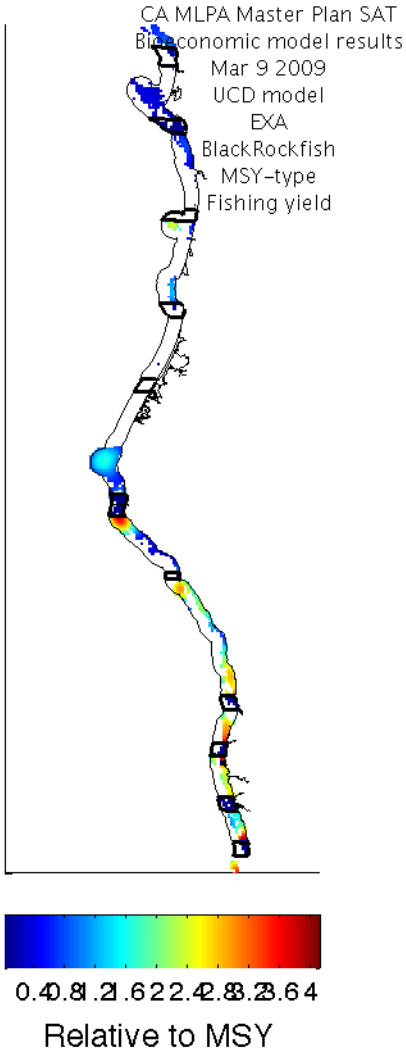
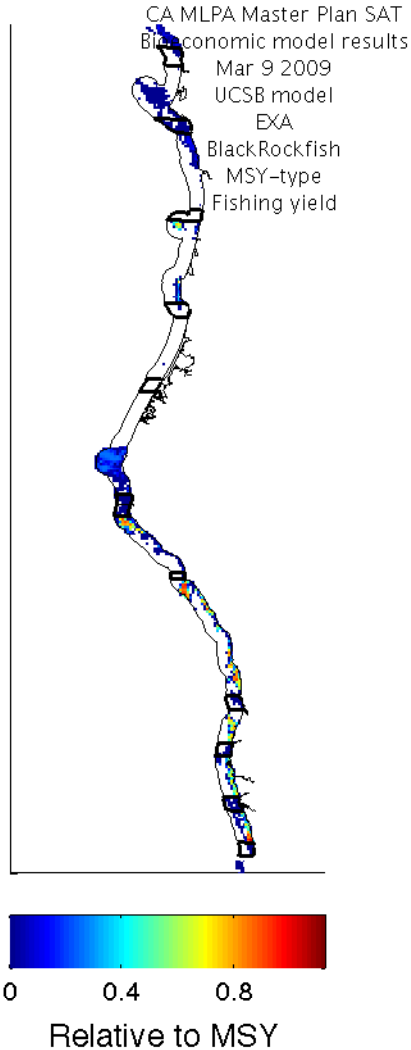
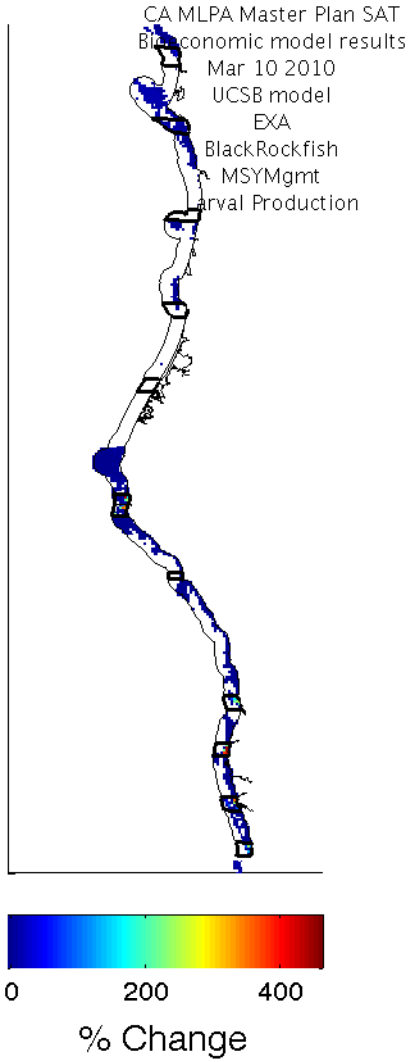
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
MSY-type
Fishing effort
0
1
2
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
BlackRockfish
MSY-type
Fishing effort
0
2
4
6
8
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
MSY-type
larval Recruitment
0.05
0.1
0.15
Proportion of Maximum


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
MSY-type
Fishing yield
0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
BlackRockfish
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY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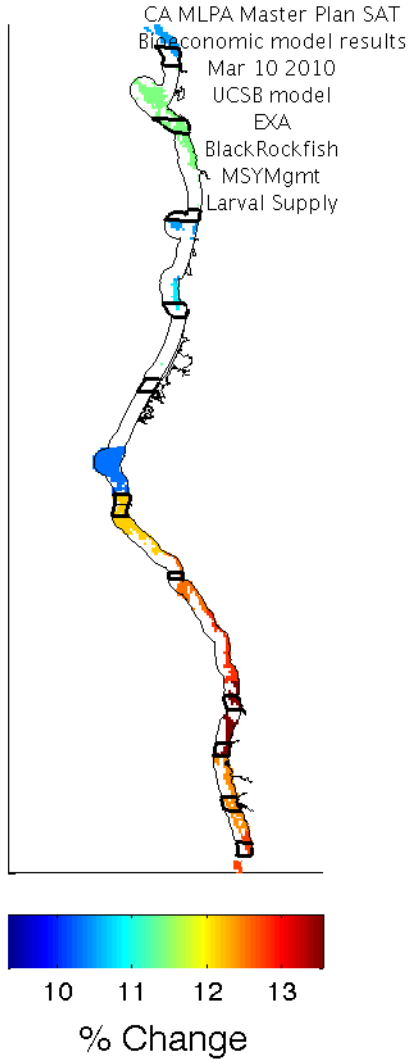
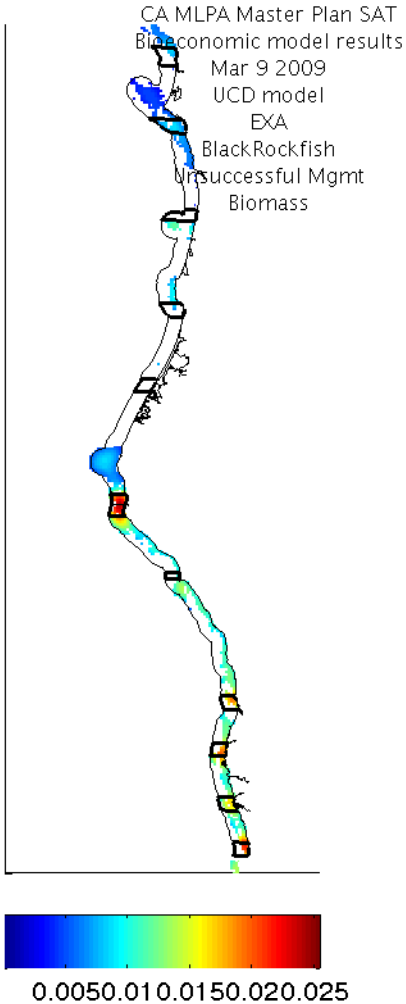
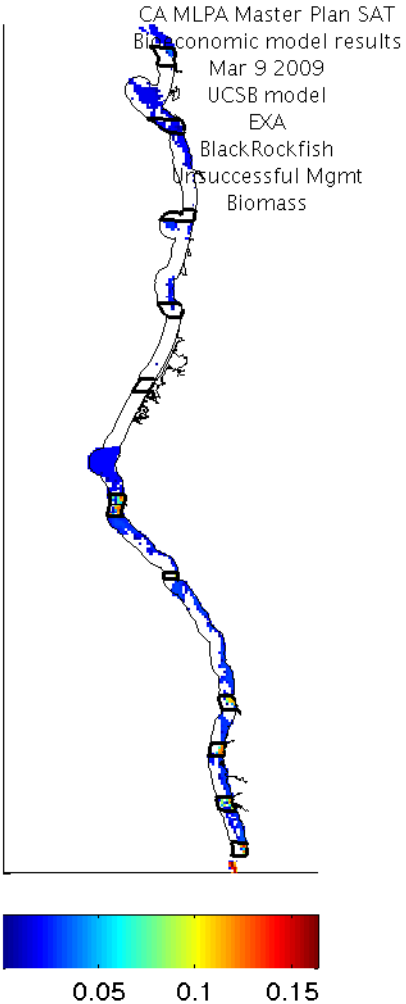
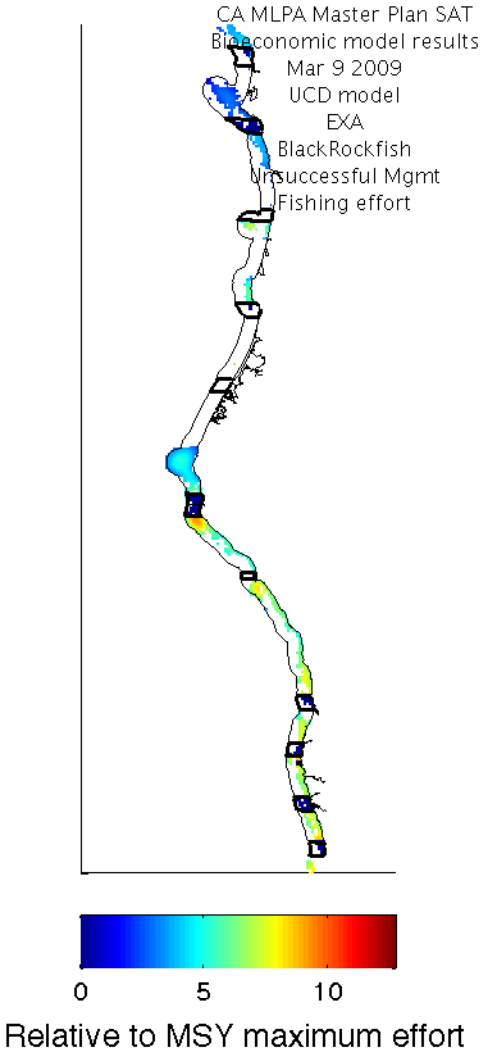
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
BlackRockfish
MSYMgmt
larval Production
0
200
400
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
BlackRockfish
MSYMgmt
Larval Supply
10
11
12
13
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
Unsuccessful Mgmt
Biomass
0.005 0.01 0.015 0.02 0.025
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
BlackRockfish
Unsuccessful Mgmt
Biomass
0.05 0.1 0.15
Relative to unfished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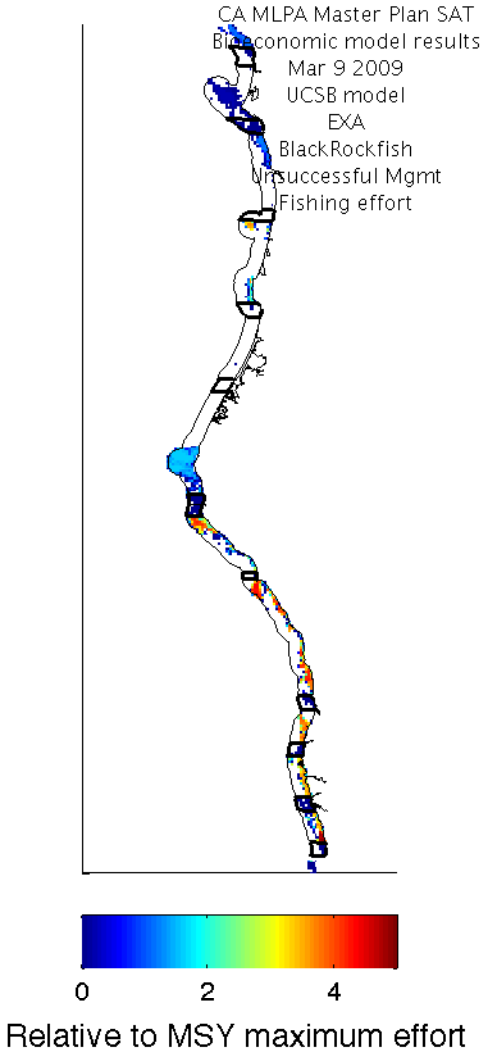
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
Unsuccessful Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort


CA MLPA Master Plan SAT
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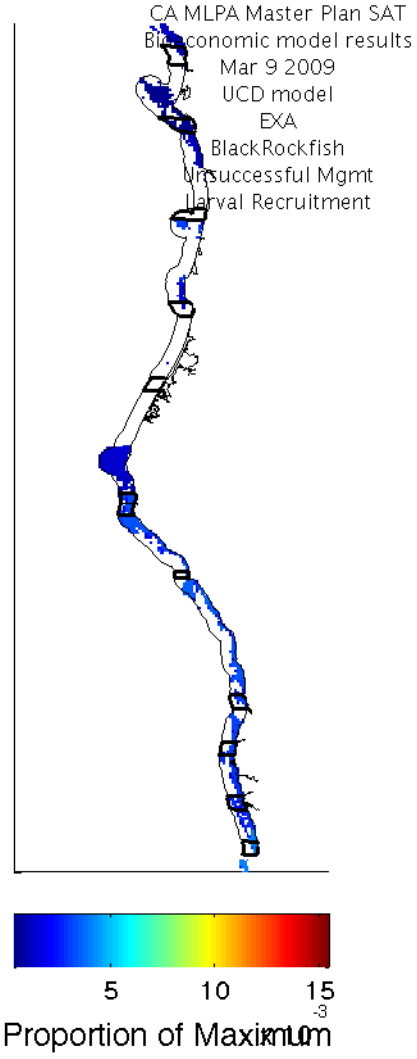
Mar 9 2009
UCSB model
EXA
BlackRockfish
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort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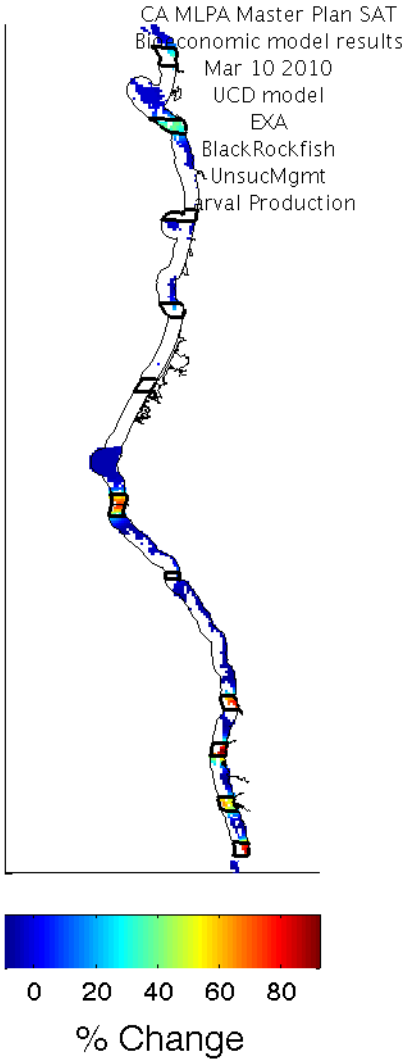
Bioeconomic model results
Mar 9 2009
UCD model
EXA
BlackRockfish
Unsuccessful Mgmt
Larval Recruitment
5
10
15
x10^-3
Proportion of Maximum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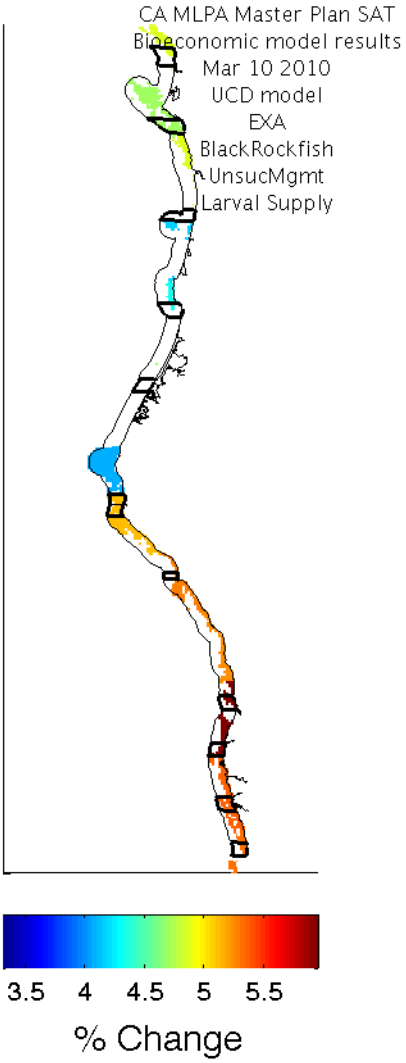
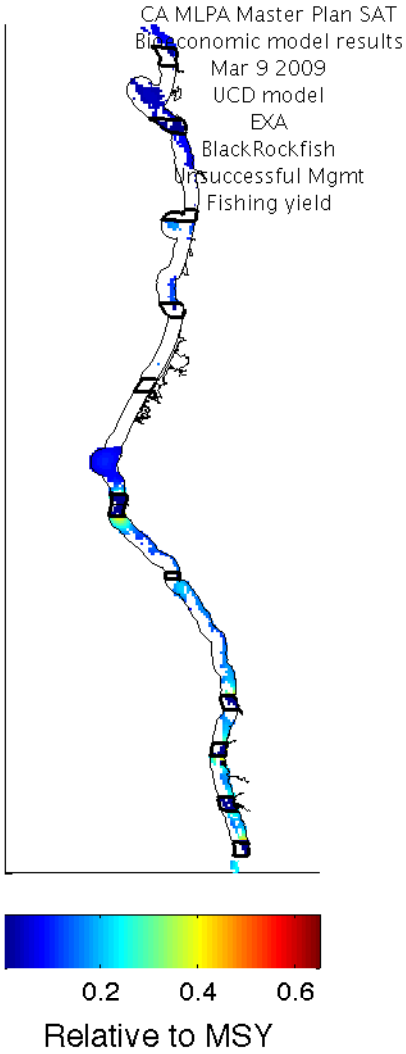
Bioeconomic model results
Mar 10 2010
UCD model
EXA
BlackRockfish
UnsucMgmt
larval Production
0
20
40
60
80
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXA
BlackRockfish
UnsucMgmt
Larval Supply
3.5
4
4.5
5
5.5
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
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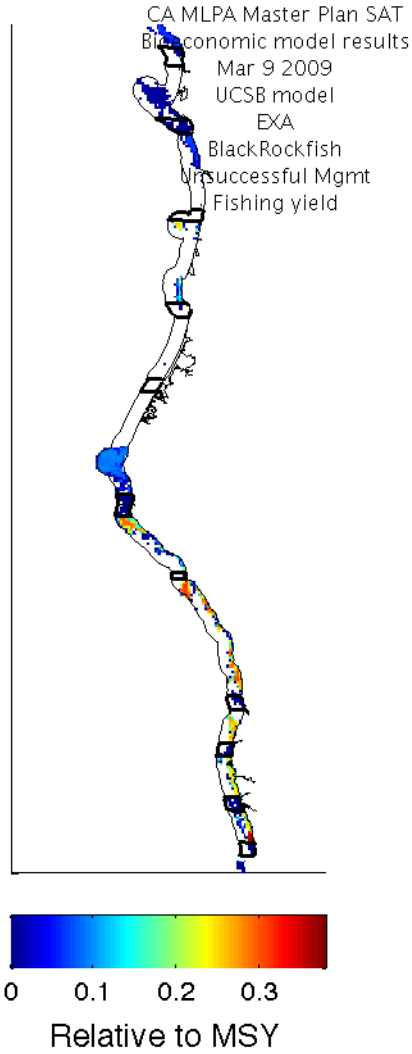
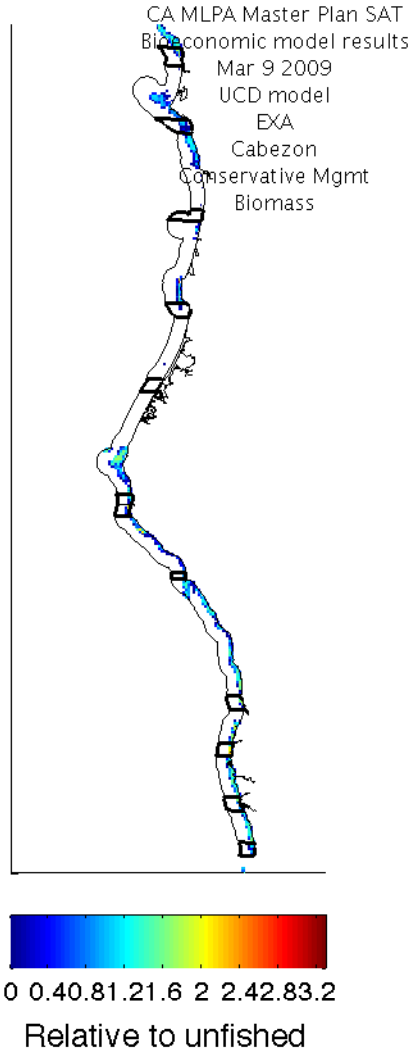
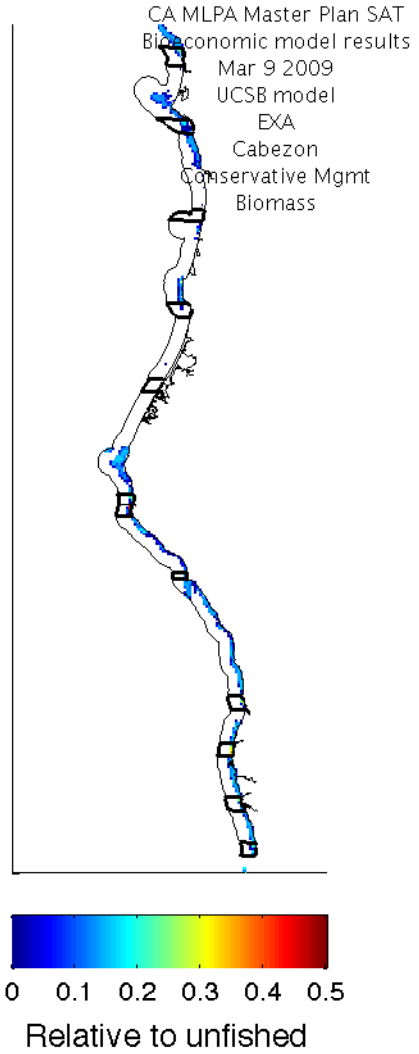
UCD model
EXA
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0.2
0.4
0.6
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
0.3
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Conservative Mgmt
Biomass
0 0.40.81.21.6 2 2.42.83.2
Relative to unfished


CA MLPA Master Plan SAT
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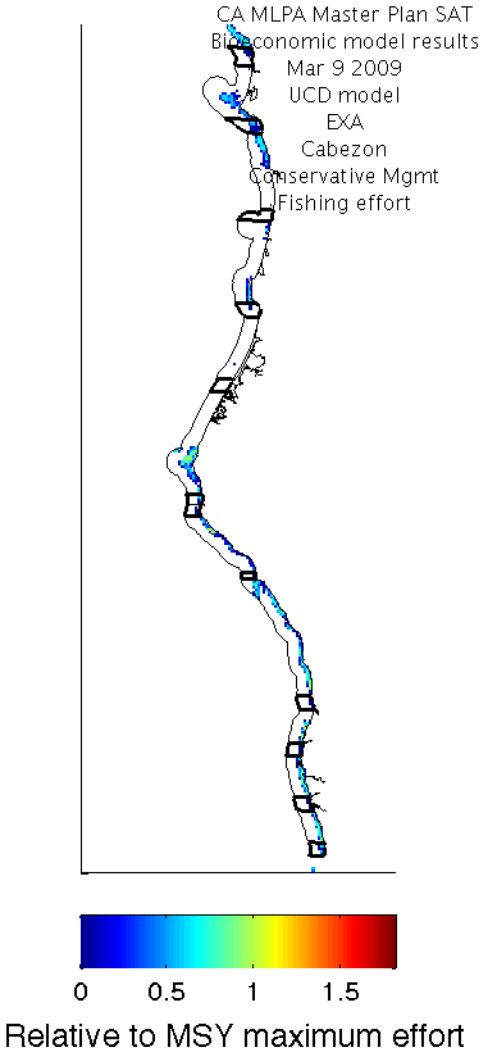
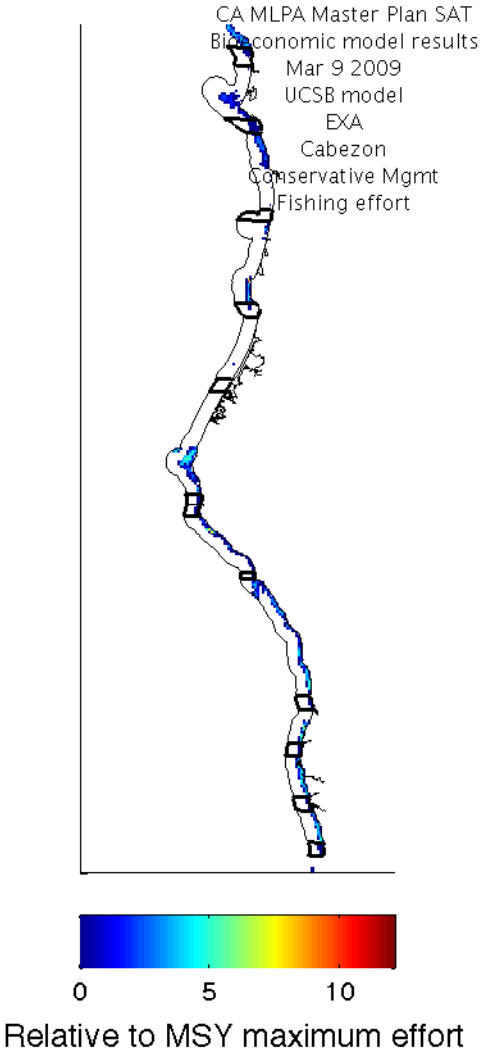
UCSB model
EXA
Cabezon
Conservative Mgmt
Biomass
0 0.1 0.2 0.3 0.4 0.5
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Conservative Mgmt
Fishing effort
0
0.5
1
1.5
Relative to MSY maximum effort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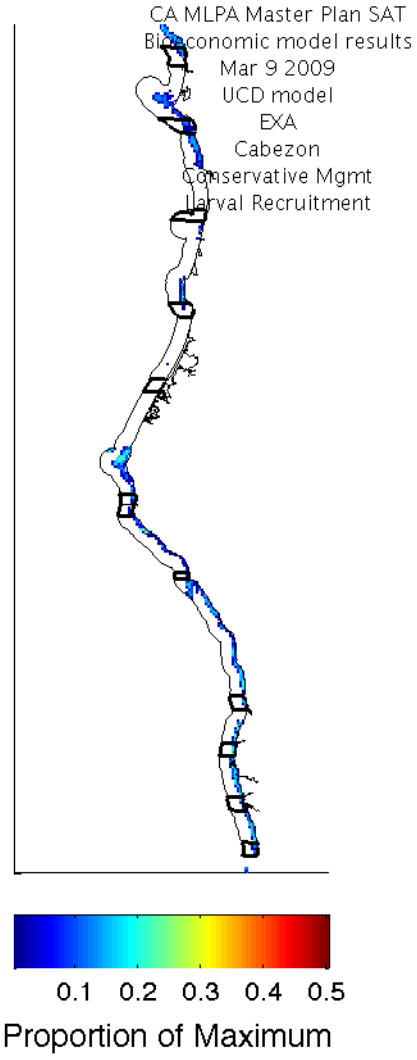
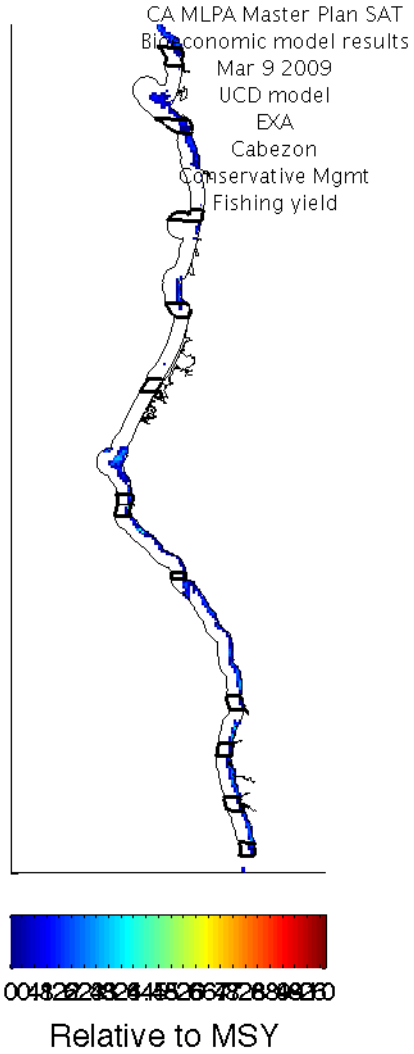
Mar 9 2009
UCSB model
EXA
Cabezon
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Conservative Mgmt
larval Recruitment
0.1
0.2
0.3
0.4
0.5
Proportion of Maximum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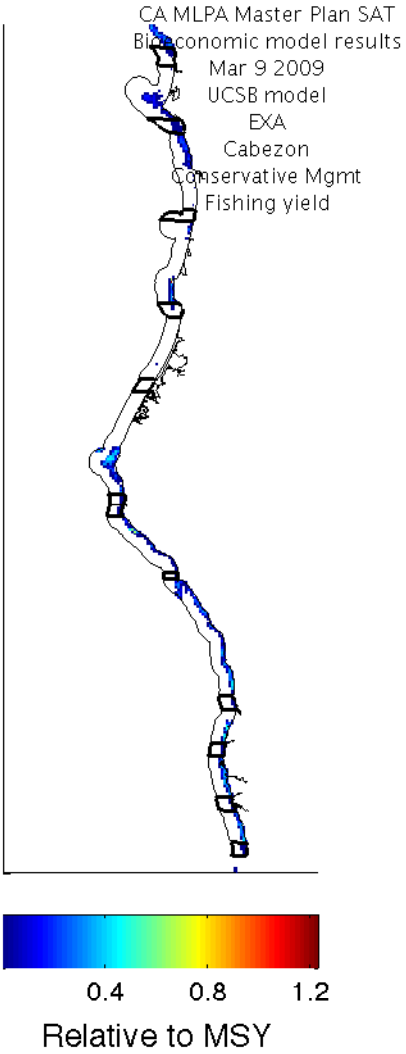
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Conservative Mgmt
Fishing yield
Relative to MSY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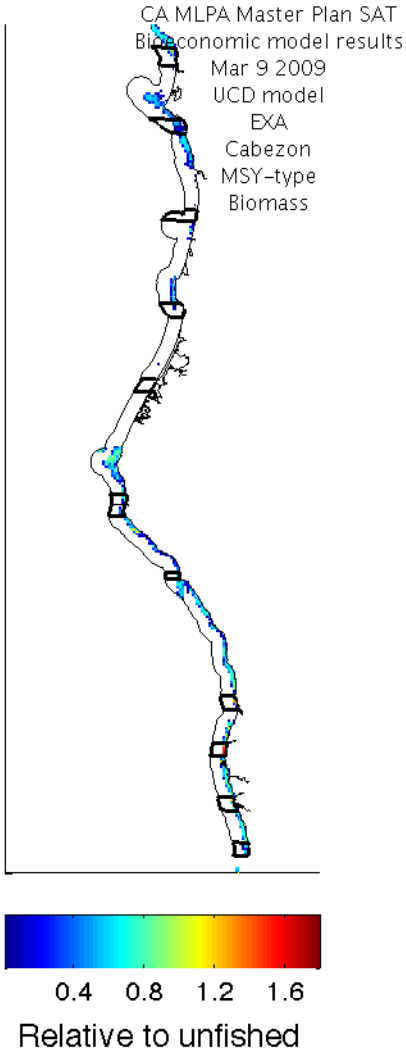
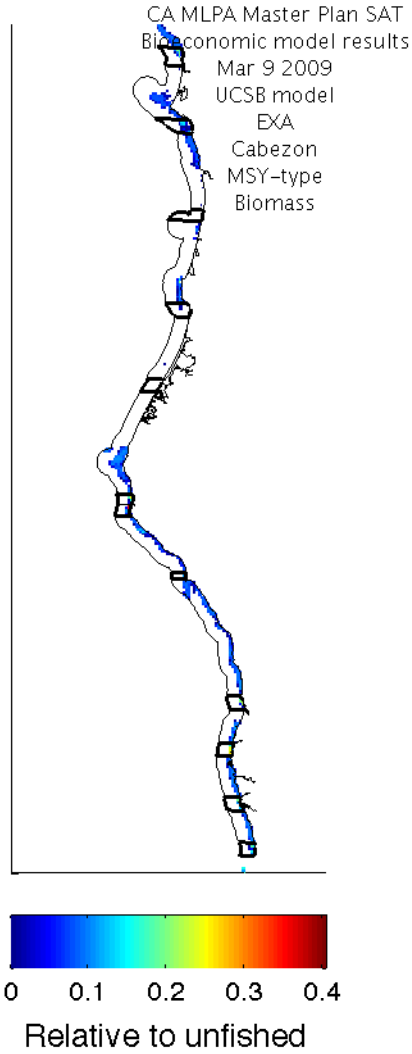
Mar 9 2009
UCSB model
EXA
Cabezon
Conservative Mgmt
Fishing yield
0.4
0.8
1.2
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
MSY-type
Biomass
0.4
0.8
1.2
1.6
Relative to unfished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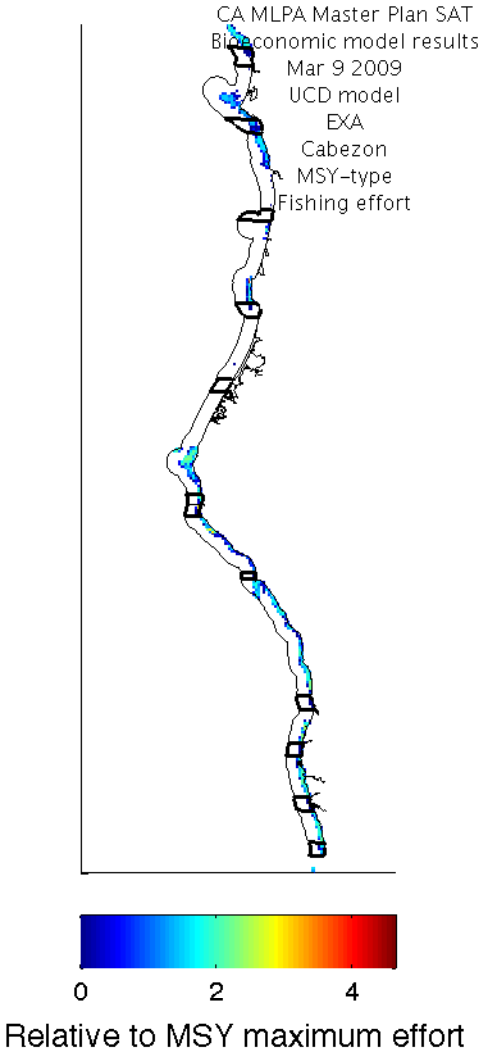
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
Cabezon
MSY-type
Biomass
0
0.1
0.2
0.3
0.4
Relative to unfished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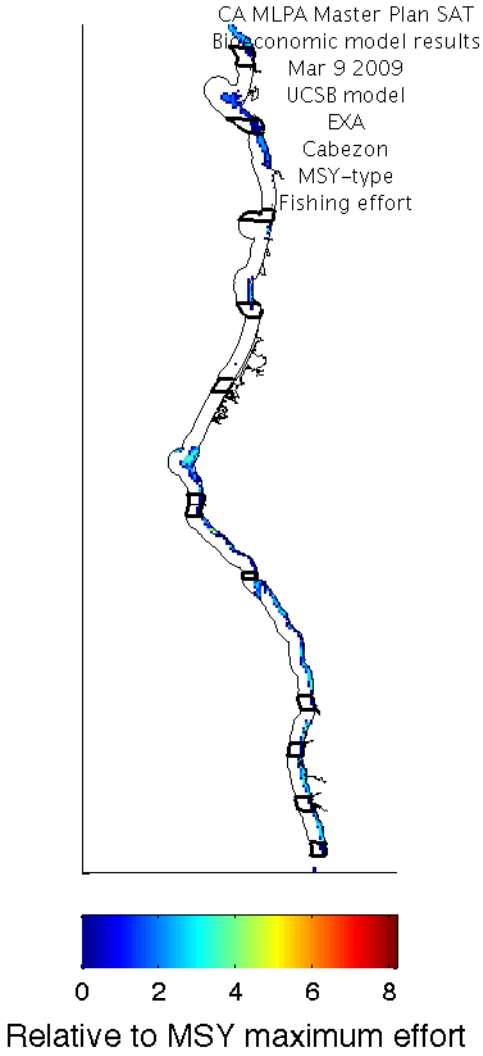
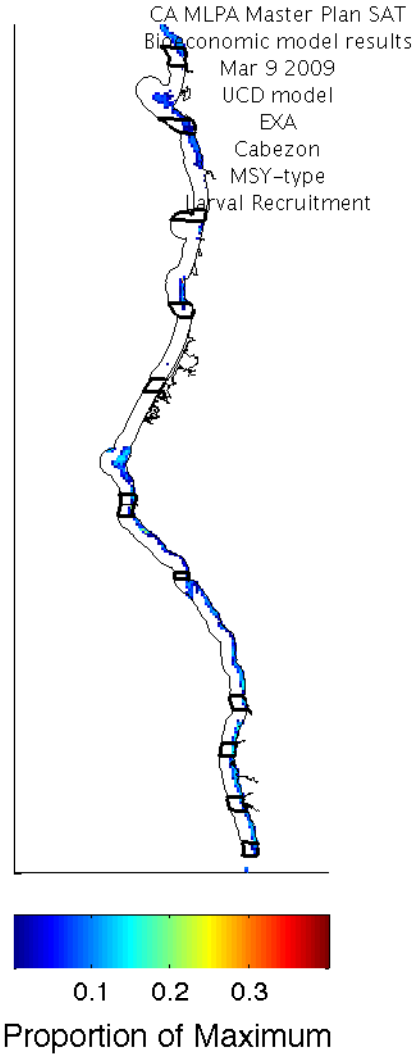
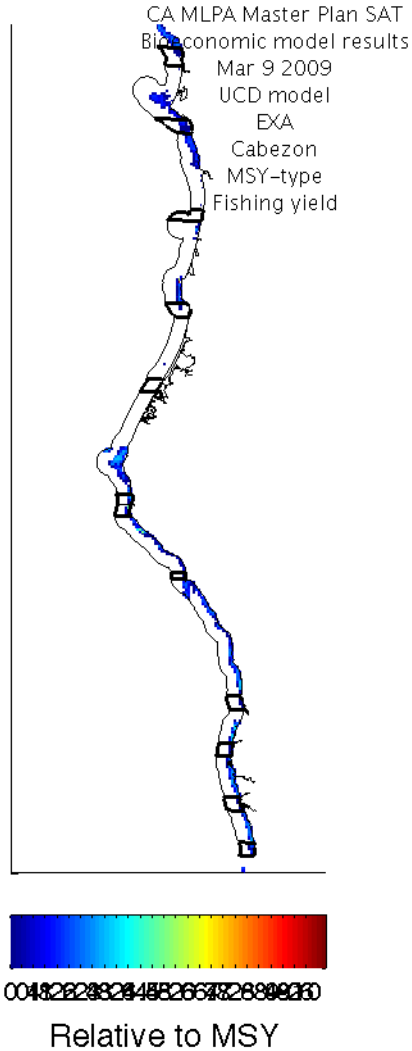
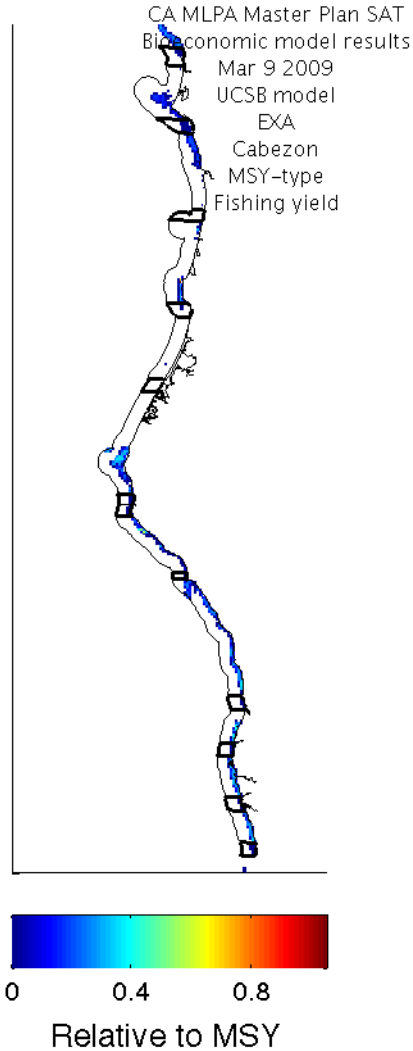
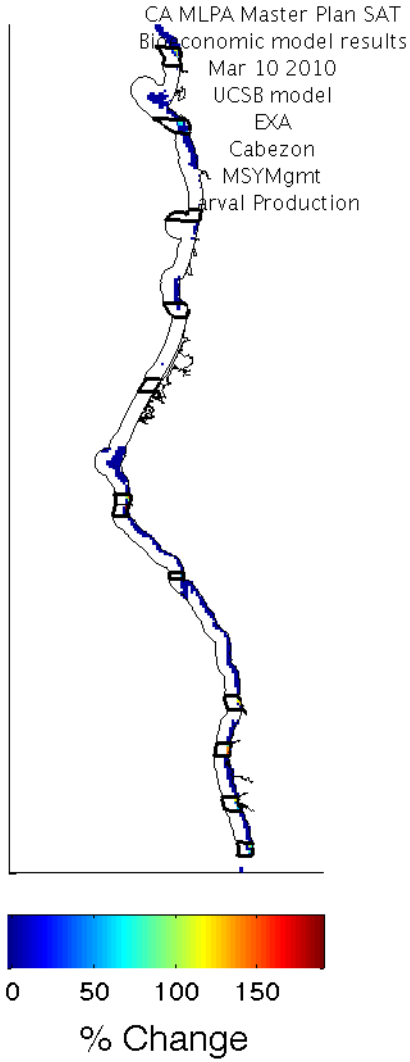
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
MSY-type
Fishing effort
0
2
4
Relative to MSY maximum effort

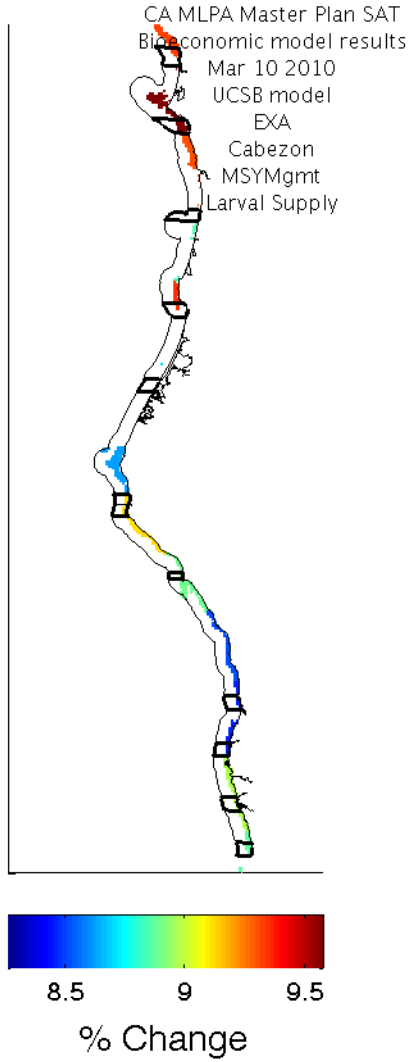

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
Cabezon
MSY-type
Fishing effort
0
2
4
6
8
Relative to MSY maximum effort

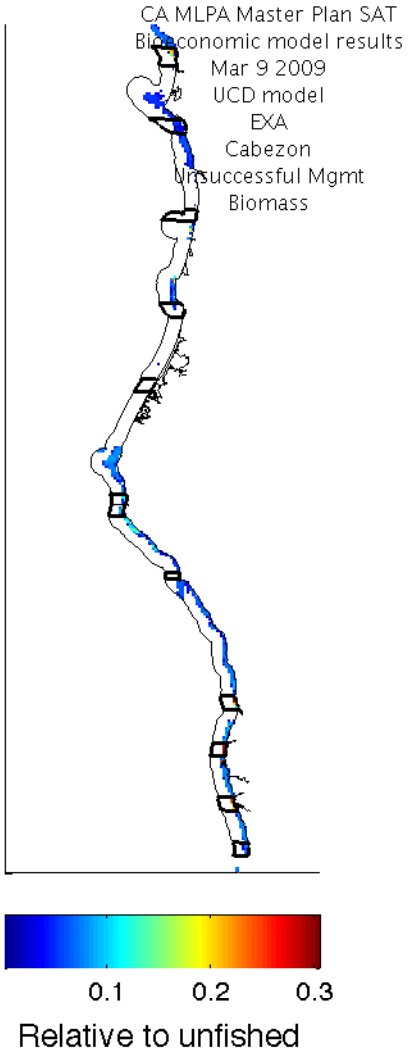

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
MSY-type
larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

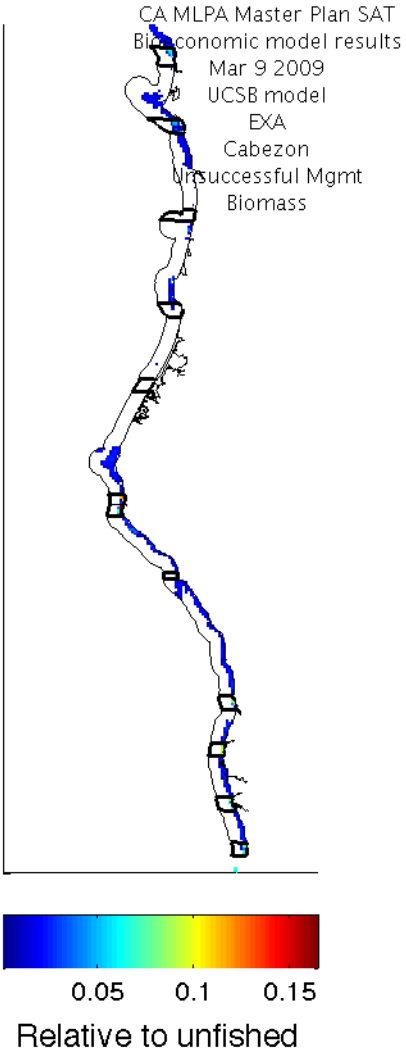

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
MSY-type
Fishing yield
Relative to MSY

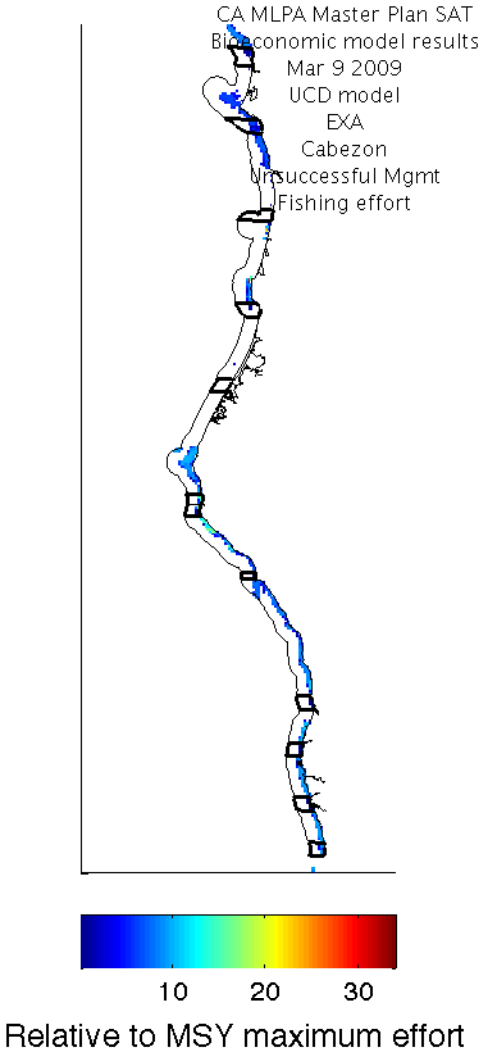

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
Cabezon
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

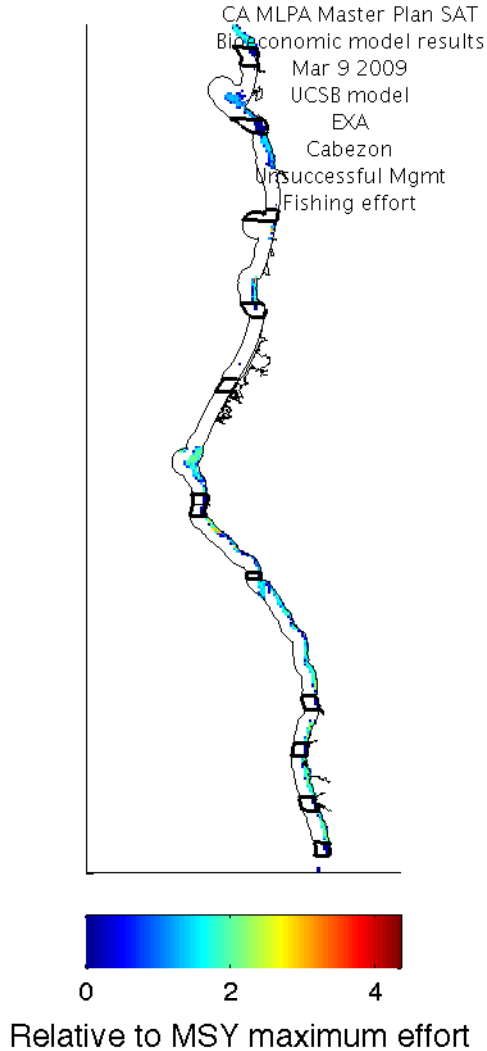

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
Cabezon
MSYMgmt
arval Production
0
50
100
150
% Change

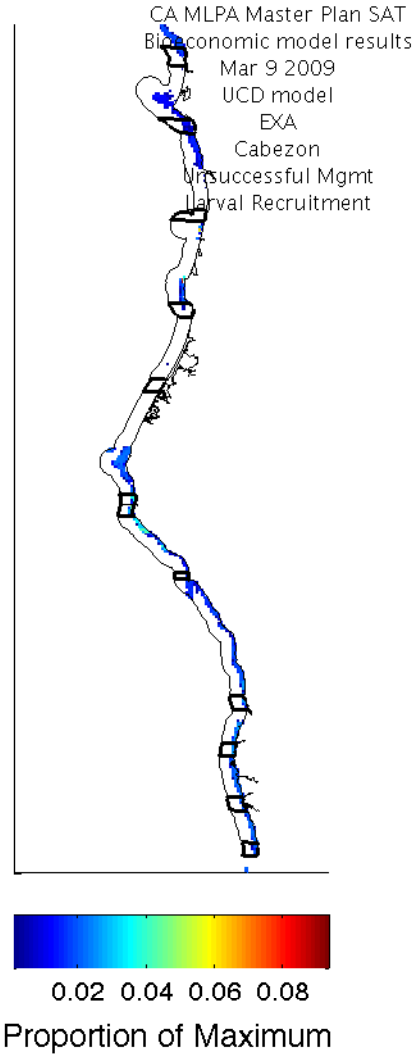

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
Cabezon
MSYMgmt
Larval Supply
8.5
9
9.5
% Change

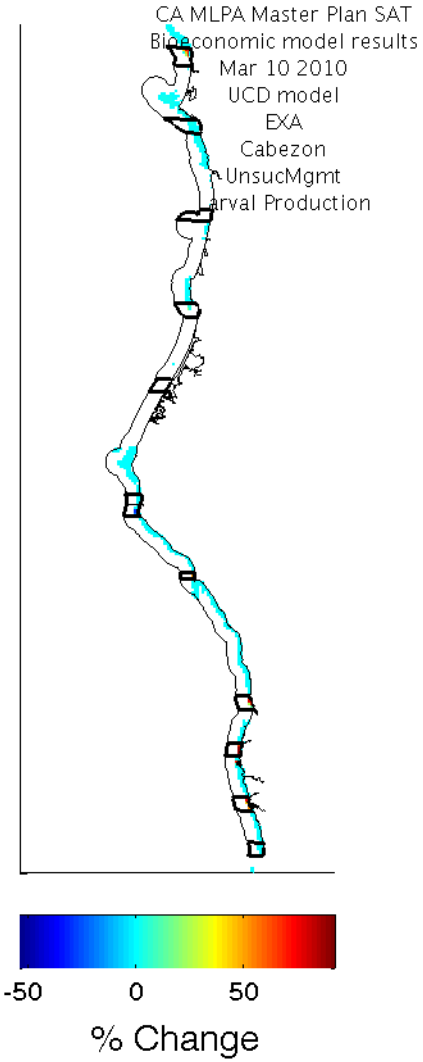

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Unsuccessful Mgmt
Biomass
0.1
0.2
0.3
Relative to unfished

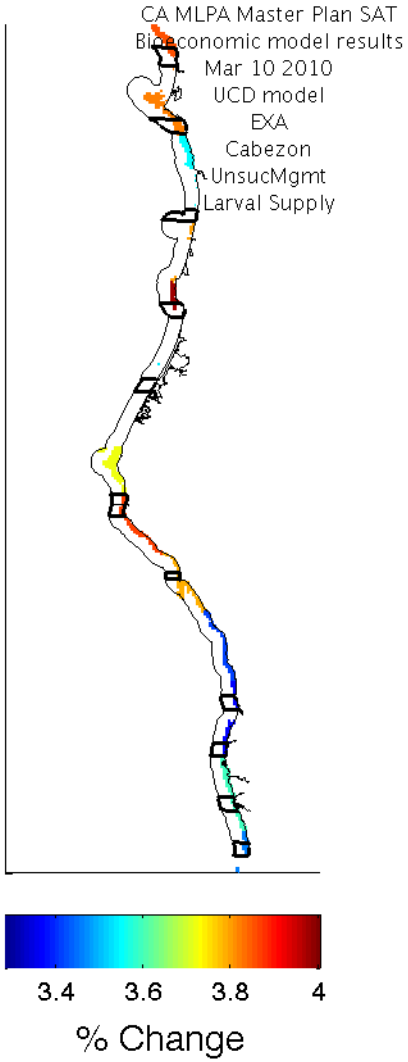

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
Cabezon
Unsuccessful Mgmt
Biomass
0.05
0.1
0.15
Relative to unfished

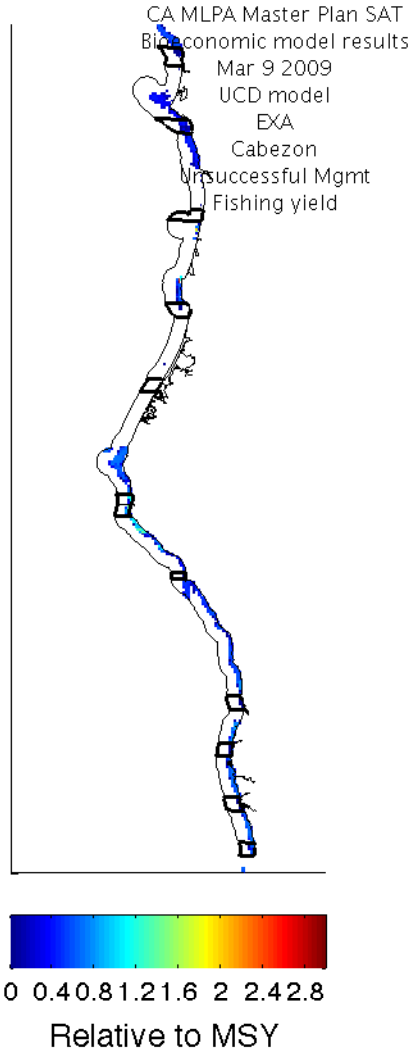

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Unsuccessful Mgmt
Fishing effort
10
20
30
Relative to MSY maximum effort

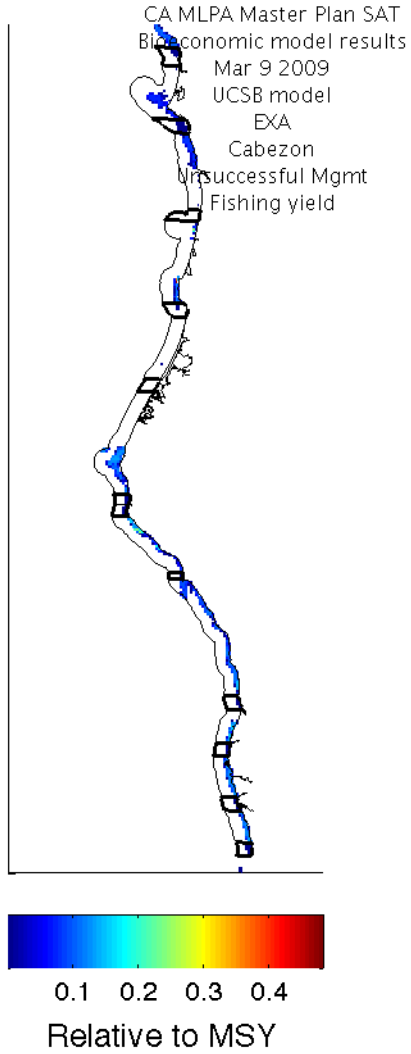

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
Cabezon
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort

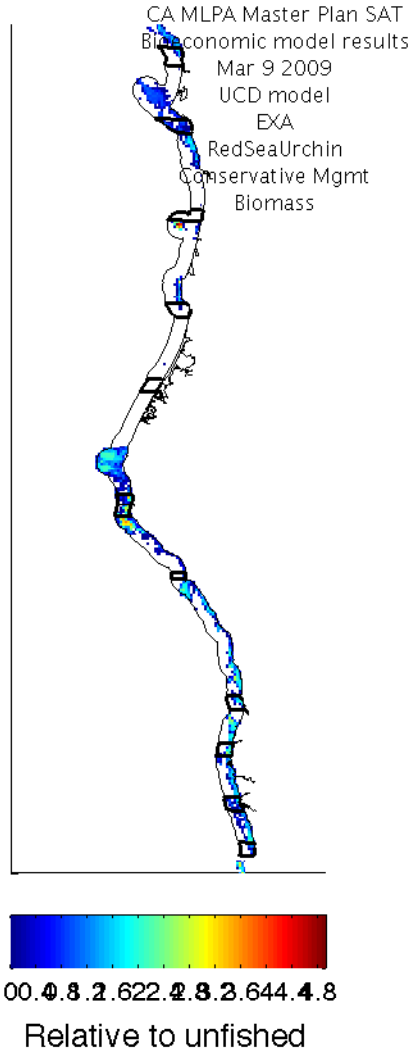

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Unsuccessful Mgmt
larval Recruitment
0.02 0.04 0.06 0.08
Proportion of Maximum

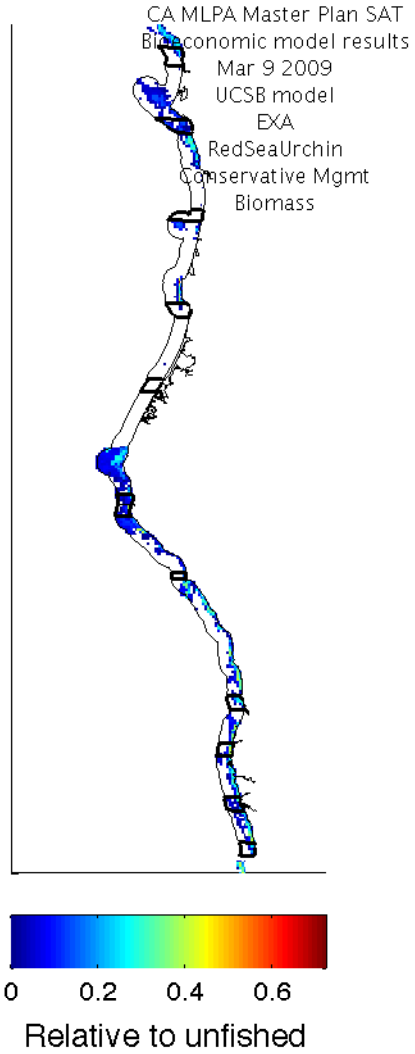

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXA
Cabezon
UnsucMgmt
arval Production
-50
0
50
% Change

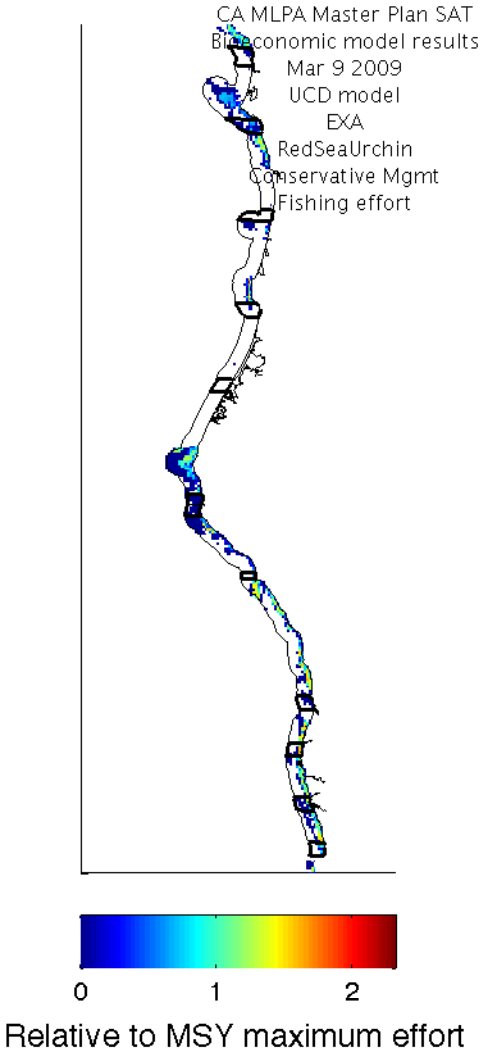

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXA
Cabezon
UnsucMgmt
Larval Supply
3.4
3.6
3.8
4
% Change

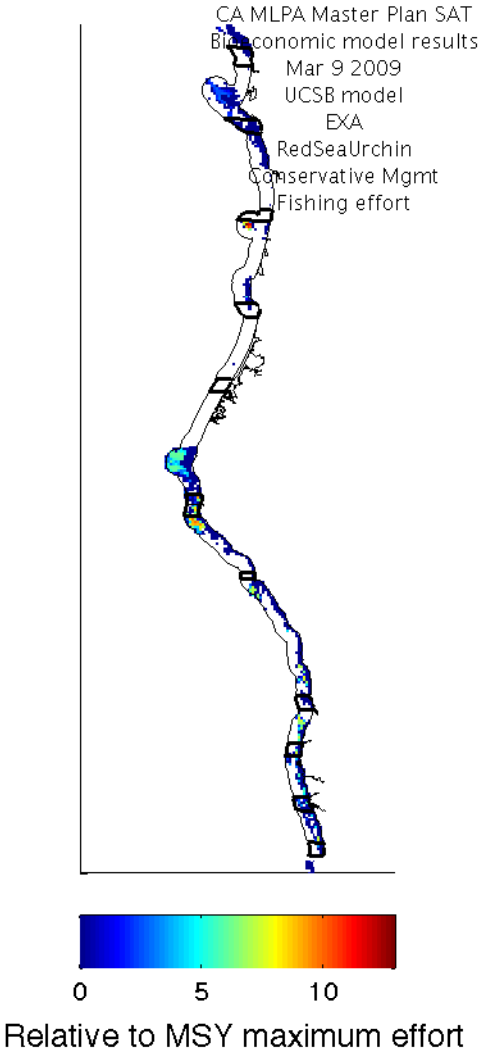

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
Cabezon
Unsuccessful Mgmt
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.4 2.8
Relative to MSY

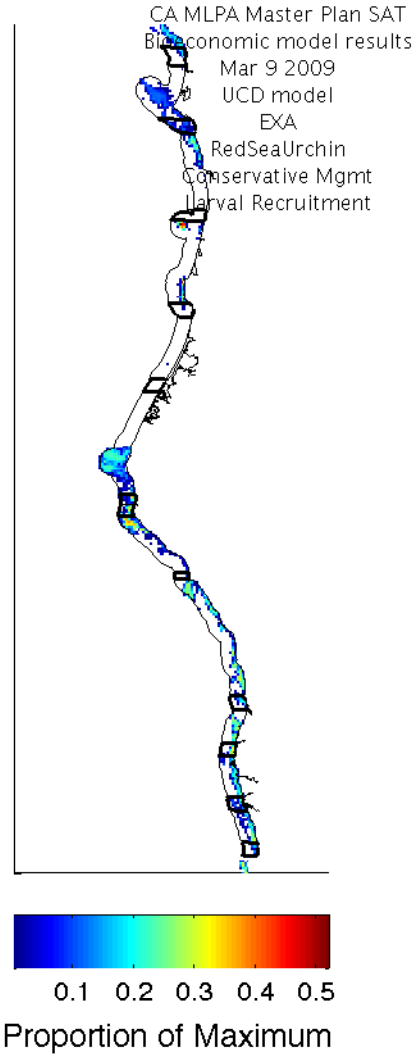

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
Cabezon
Unsuccessful Mgmt
Fishing yield
0.1 0.2 0.3 0.4
Relative to MSY

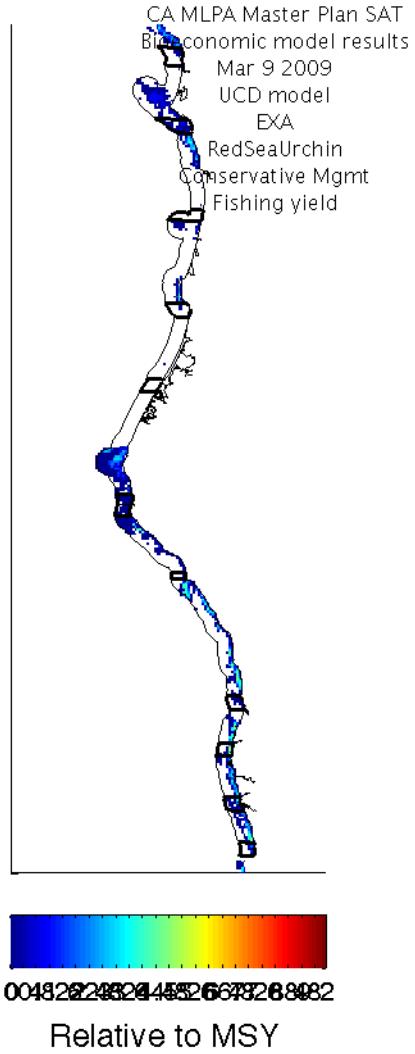

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Conservative Mgmt
Biomass
0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.8
Relative to unfished

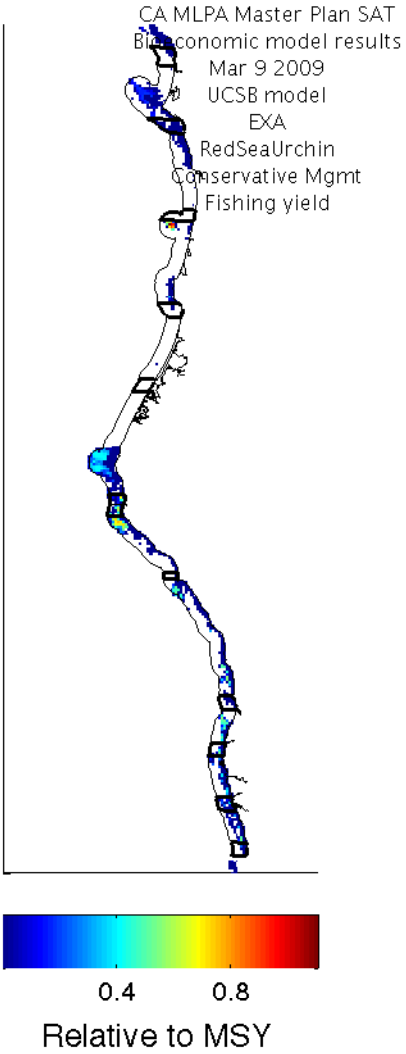

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
Conservative Mgmt
Biomass
0 0.2 0.4 0.6
Relative to unfished

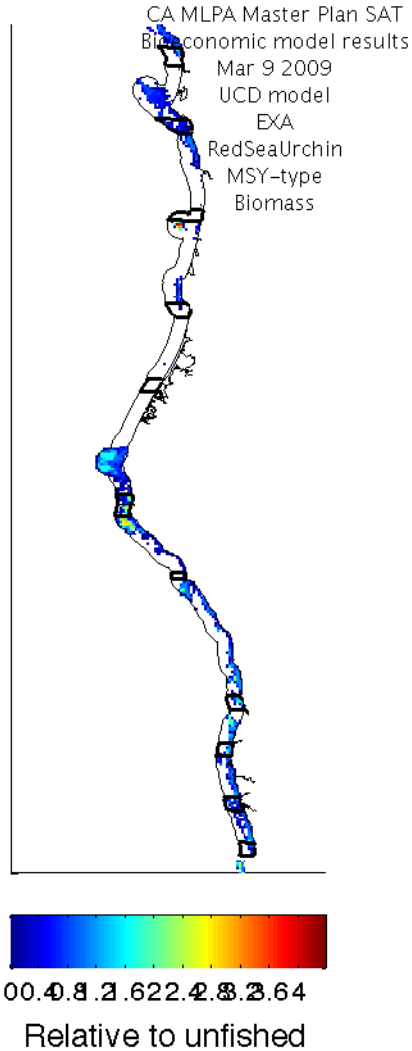

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Conservative Mgmt
Fishing effort
0
1
2
Relative to MSY maximum effort

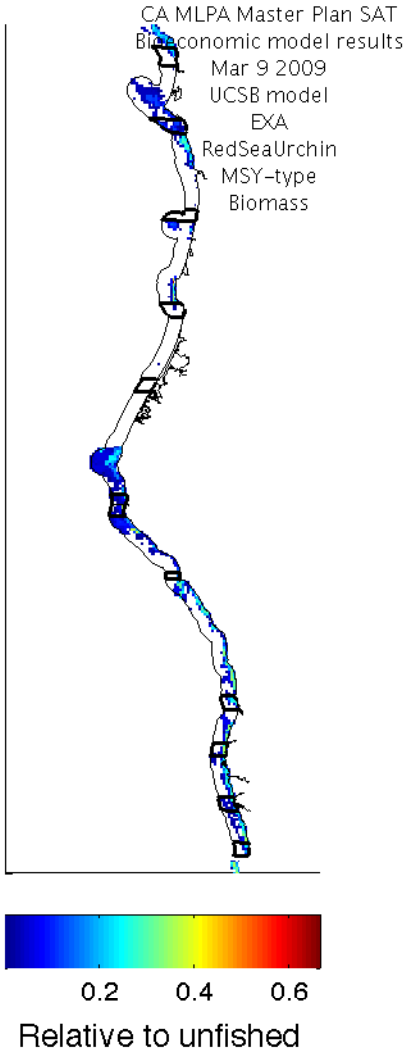

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

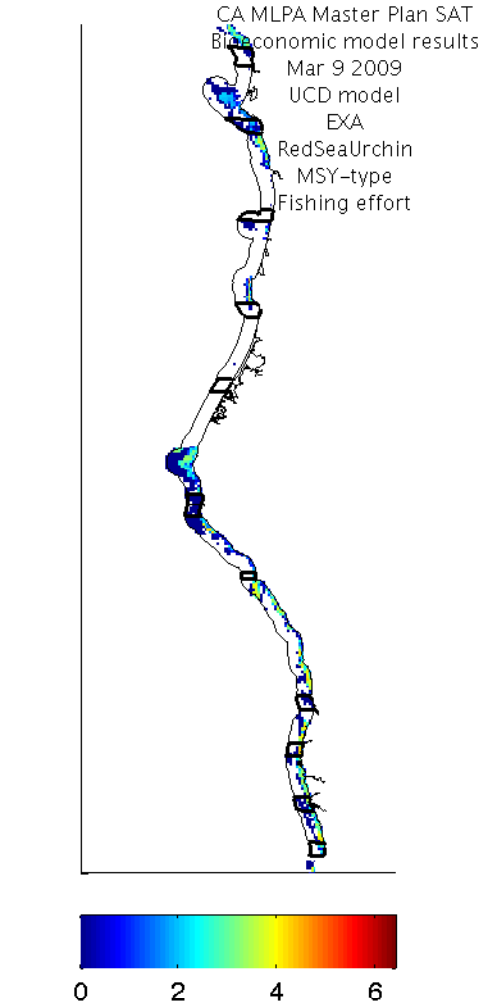

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
0.4
0.5
Proportion of Maximum


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Conservative Mgmt
Fishing yield
Relative to MSY

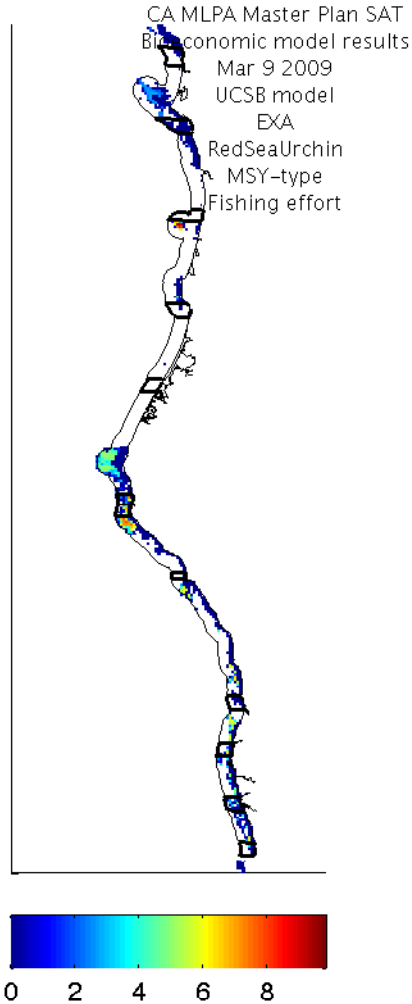

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
Conservative Mgmt
Fishing yield
0.4
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
MSY-type
Biomass
0 0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4
Relative to unfished

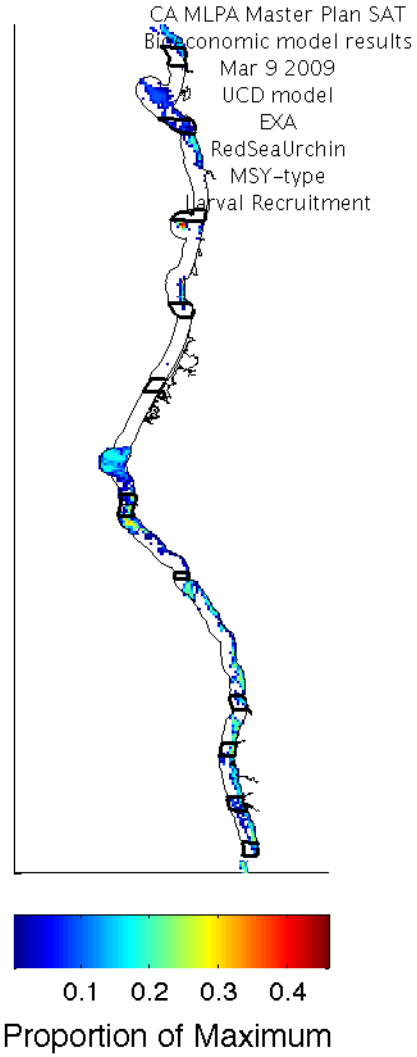

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
MSY-type
Biomass
0.2
0.4
0.6
Relative to unfished

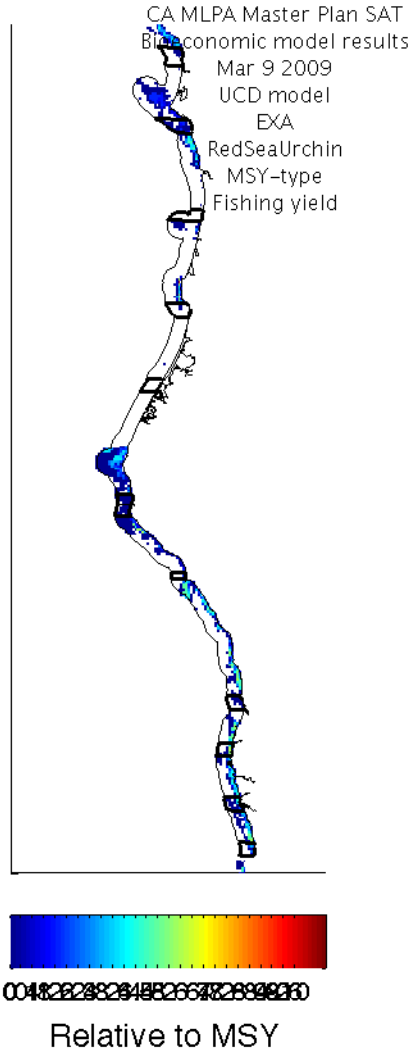


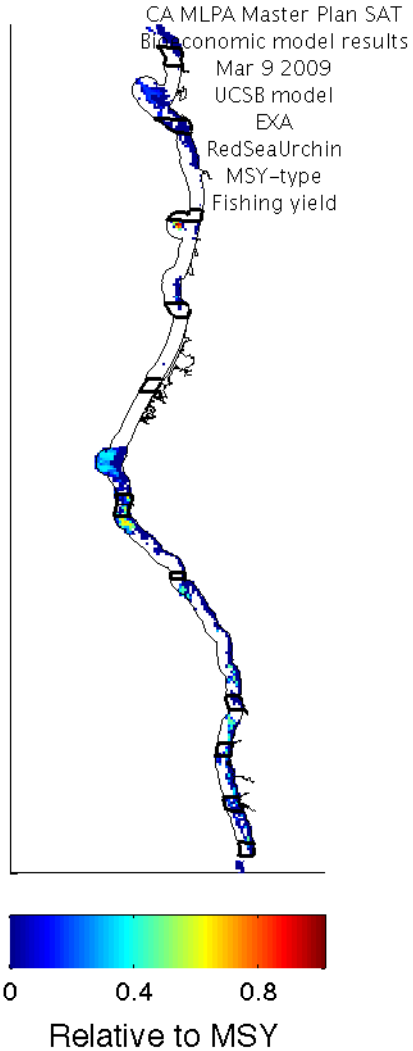
Relative to MSY maximum effort

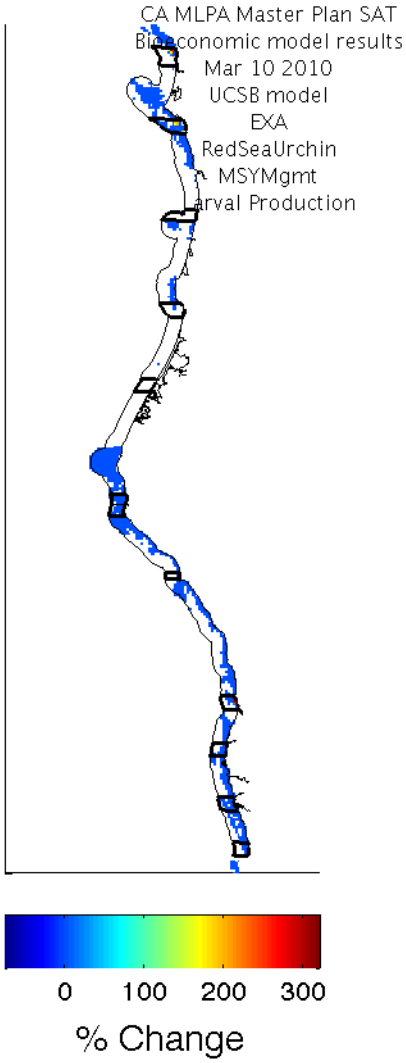


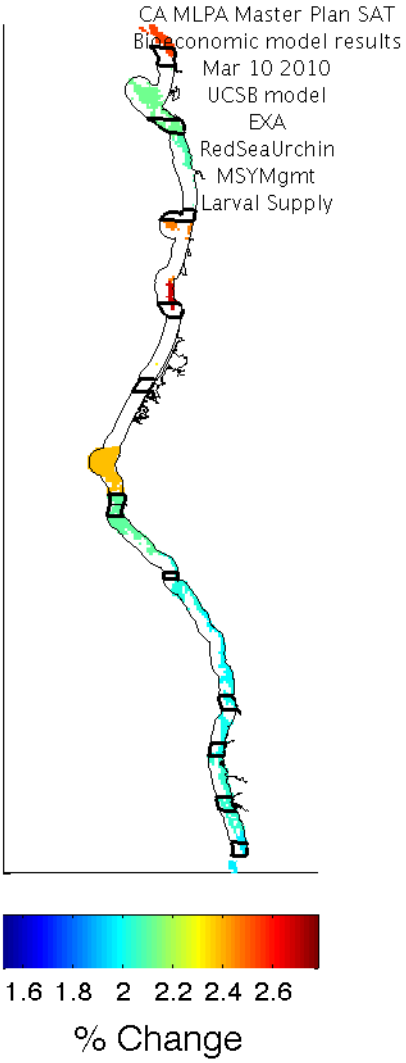
Relative to MSY maximum effort

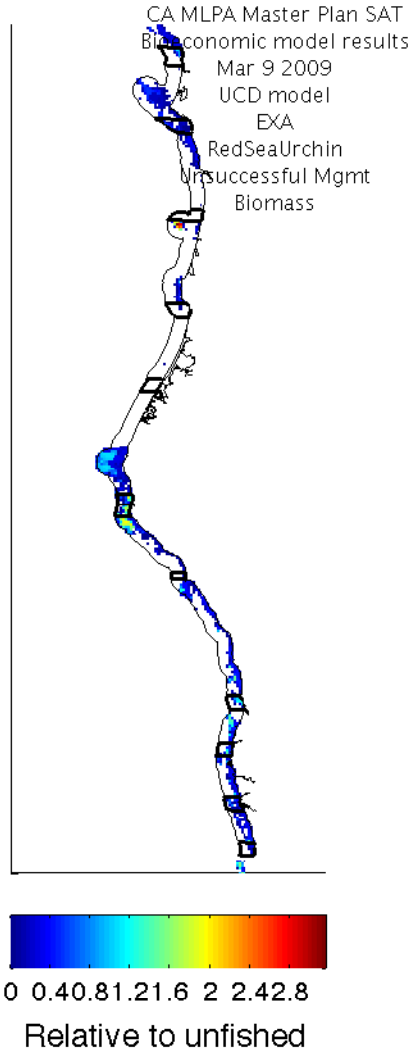

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
MSY-type
larval Recruitment
0.1
0.2
0.3
0.4
Proportion of Maximum

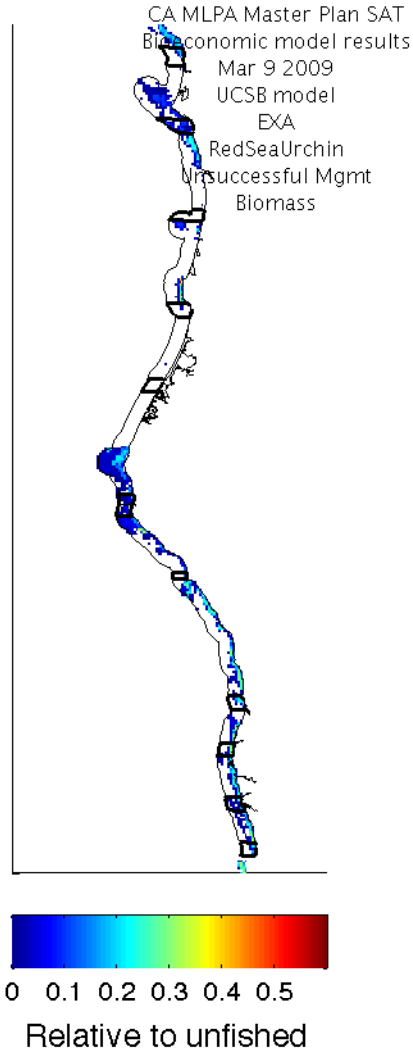

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
MSY-type
Fishing yield
Relative to MSY

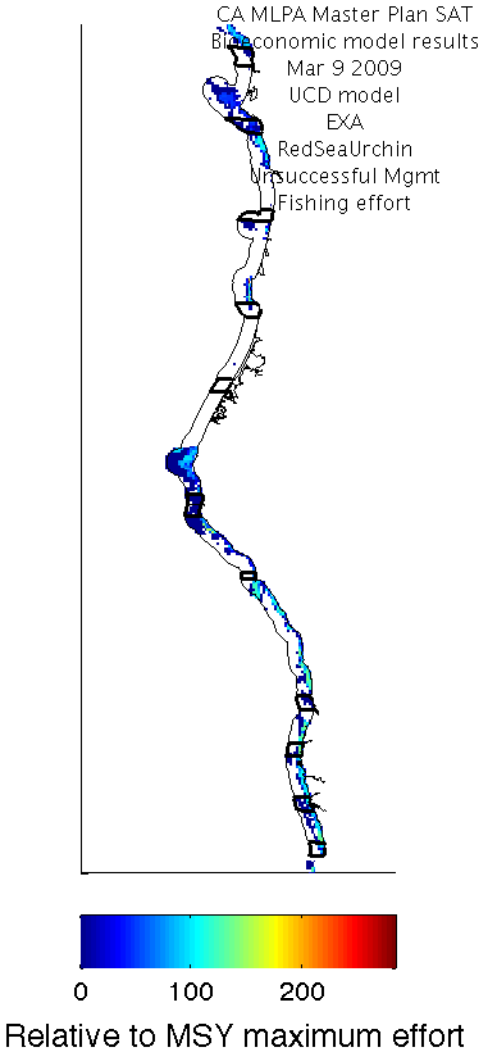

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

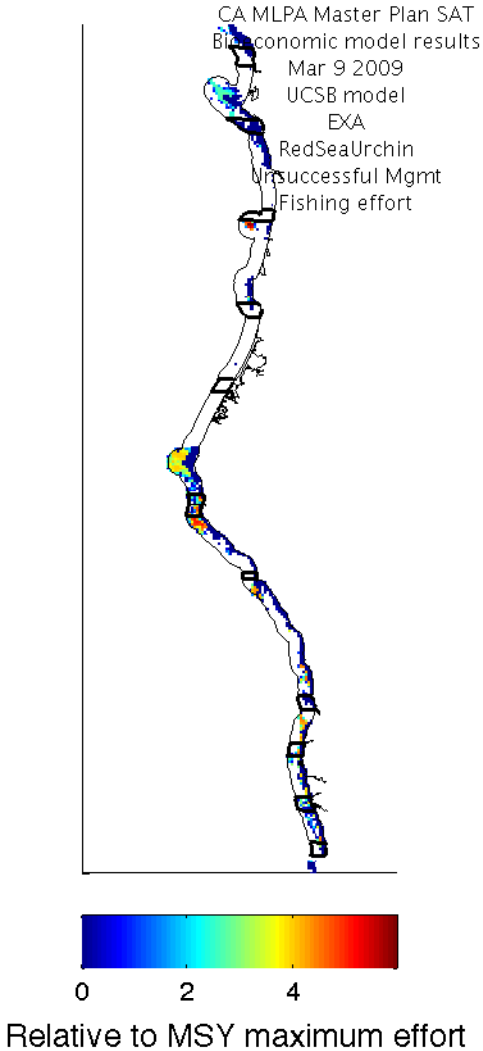

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
RedSeaUrchin
MSYMgmt
larval Production
0
100
200
300
% Change

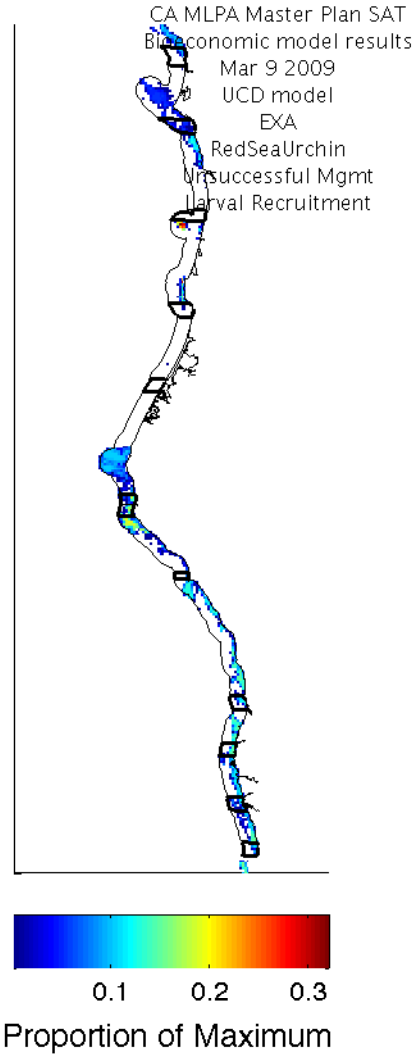

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
RedSeaUrchin
MSYMgmt
Larval Supply
1.6
1.8
2
2.2
2.4
2.6
% Change

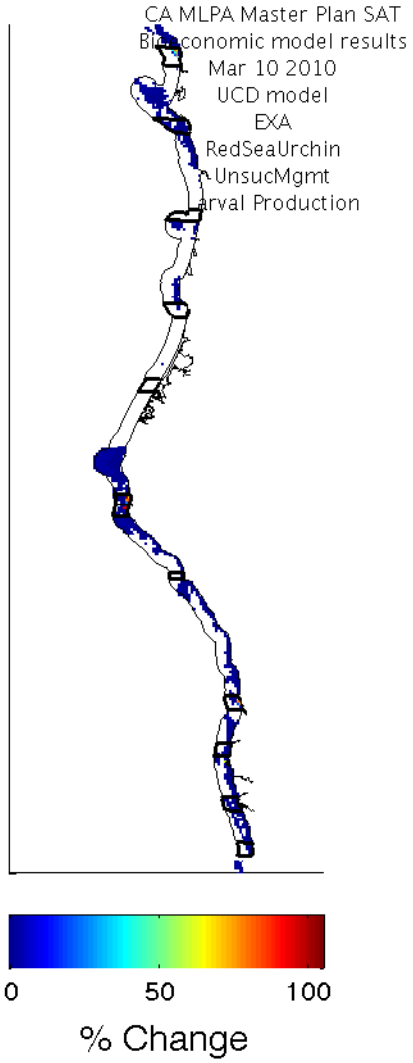

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Unsuccessful Mgmt
Biomass
0 0.40.81.21.6 2 2.42.8
Relative to unfished

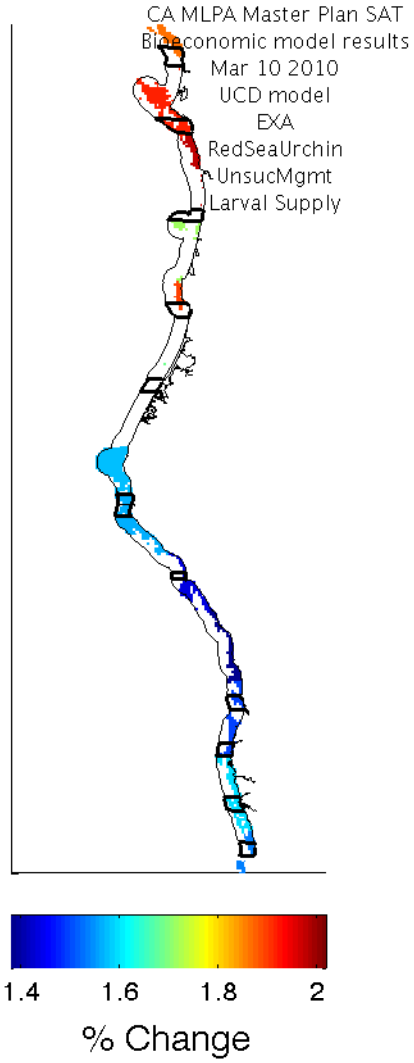

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
Unsuccessful Mgmt
Biomass
0 0.1 0.2 0.3 0.4 0.5
Relative to unfished

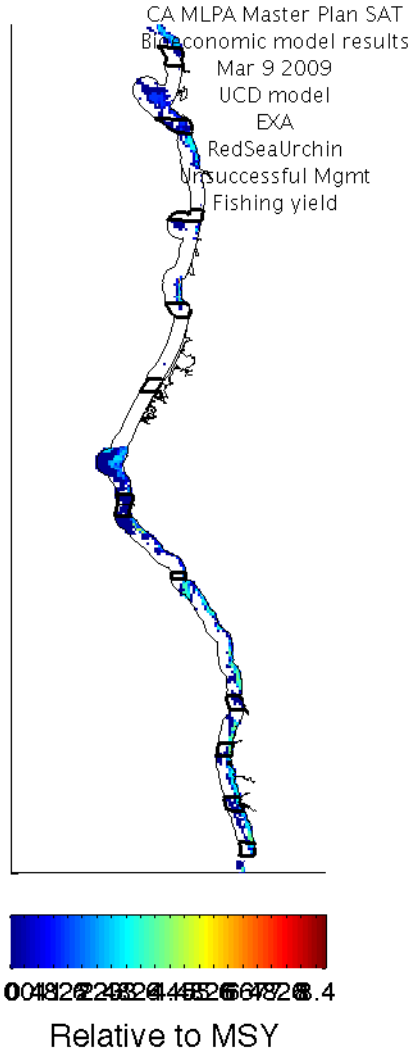

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Unsuccessful Mgmt
Fishing effort
0
100
200
Relative to MSY maximum effort

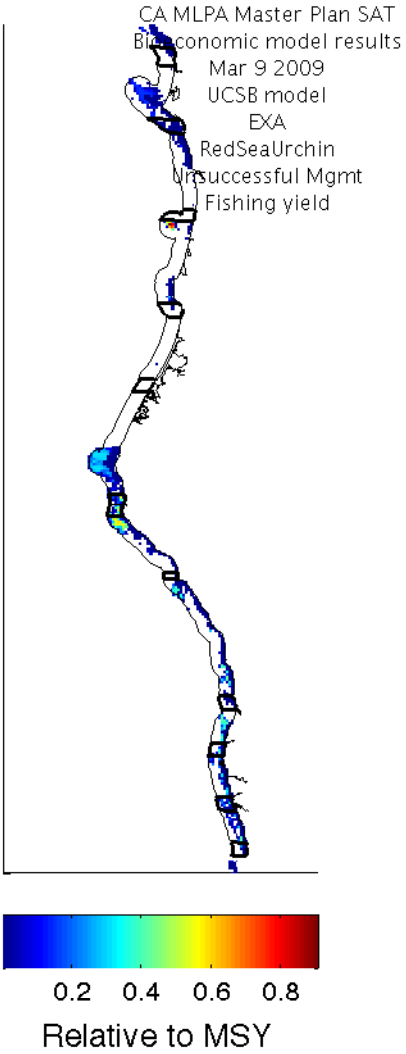

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort

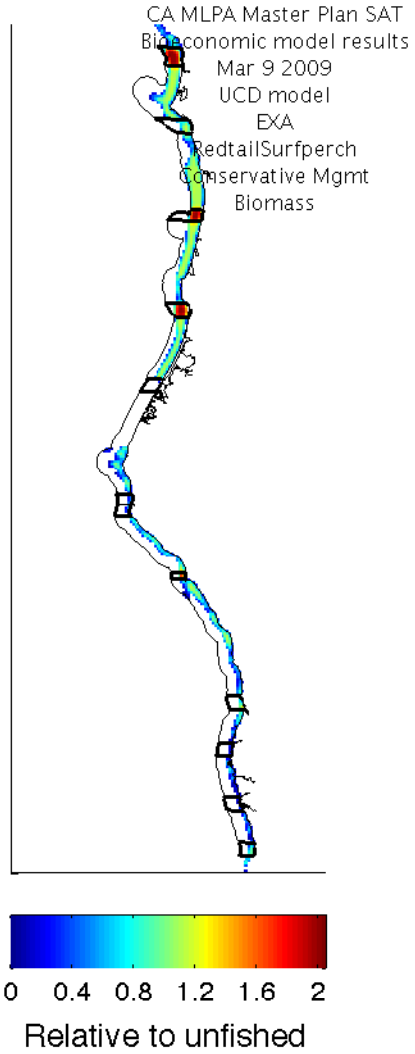

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Unsuccessful Mgmt
Larval Recruitment
0.1
0.2
0.3
Proportion of Maximum

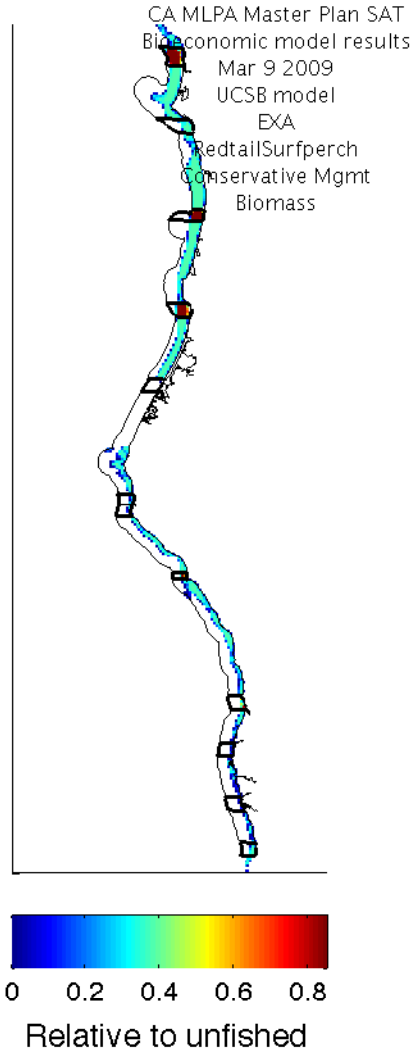

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXA
RedSeaUrchin
UnsucMgmt
Larval Production
0
50
100
% Change

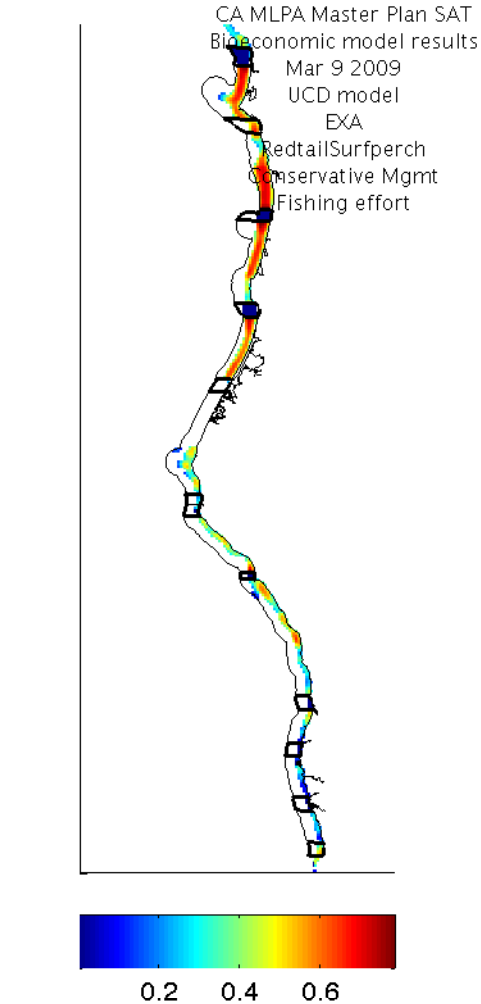

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXA
RedSeaUrchin
UnsucMgmt
Larval Supply
1.4
1.6
1.8
2
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
Relative to MSY

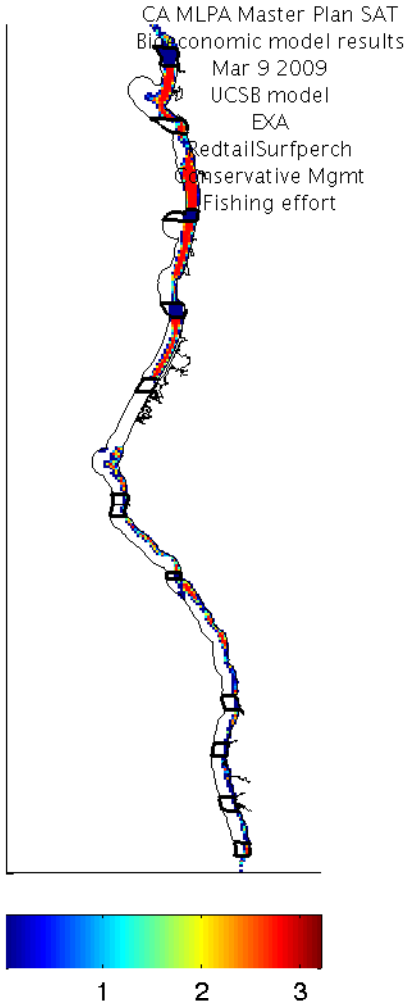

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
0.2
0.4
0.6
0.8
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
Conservative Mgmt
Biomass
0
0.4
0.8
1.2
1.6
2
Relative to unfished

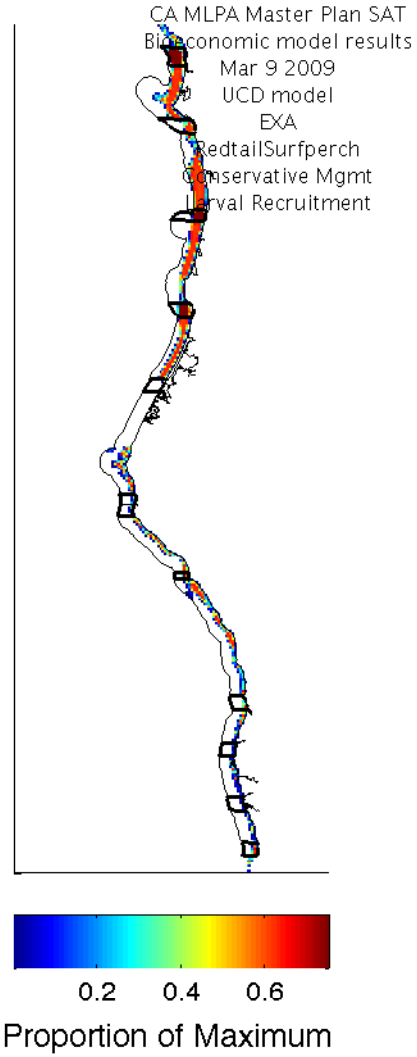

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

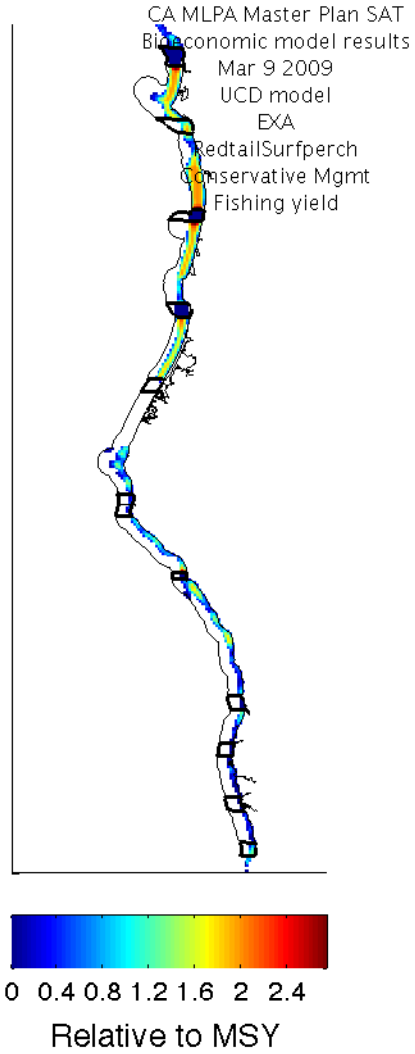


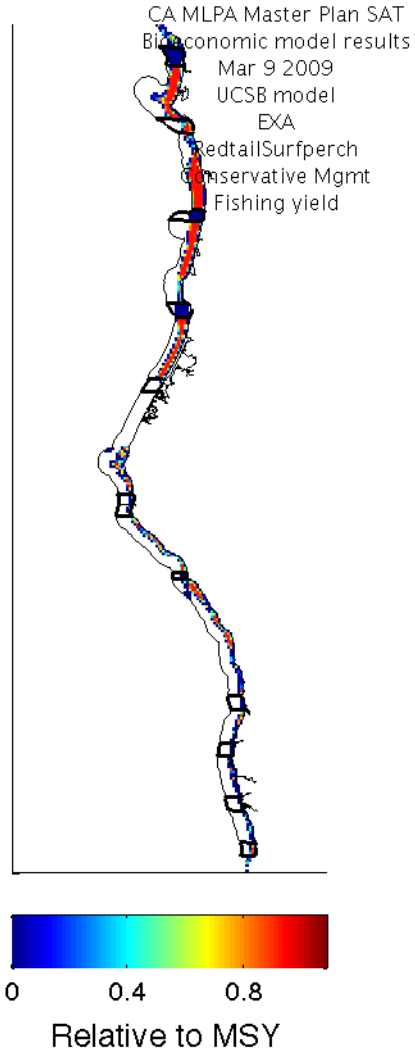
Relative to MSY maximum effort

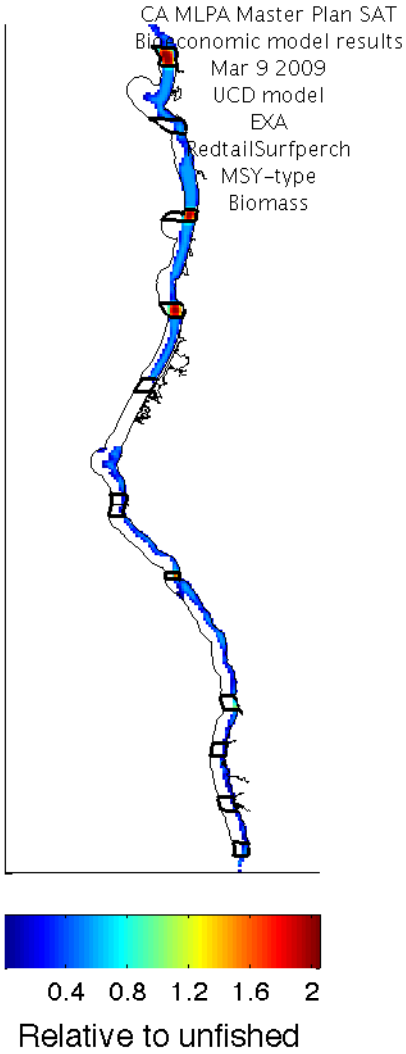


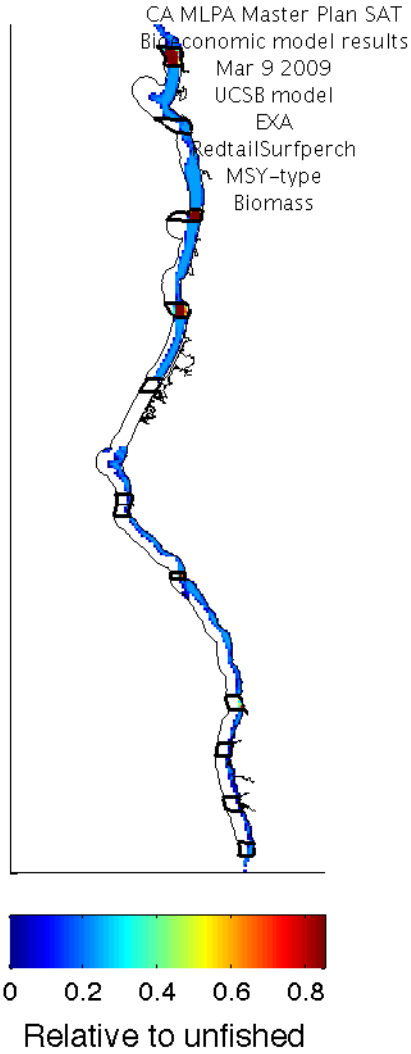
Relative to MSY maximum effort

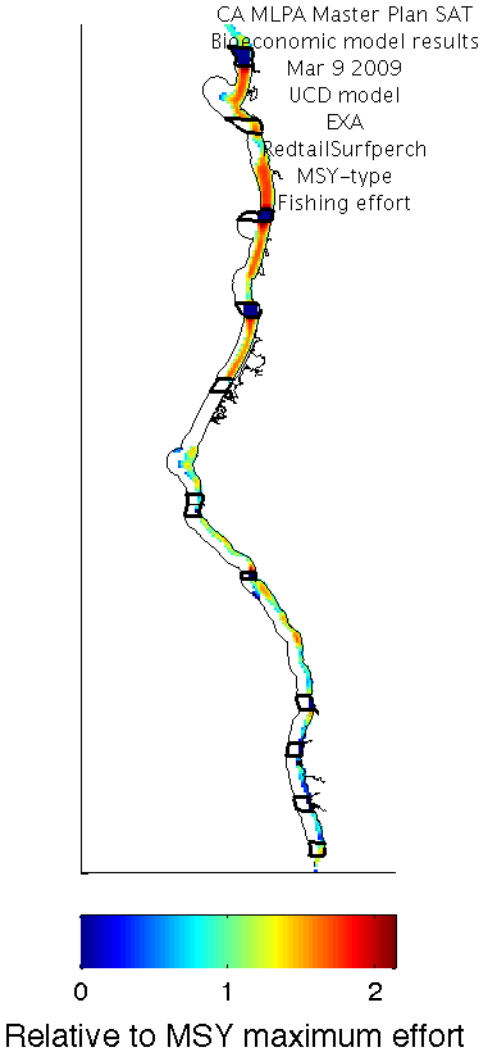

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
Conservative Mgmt
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum

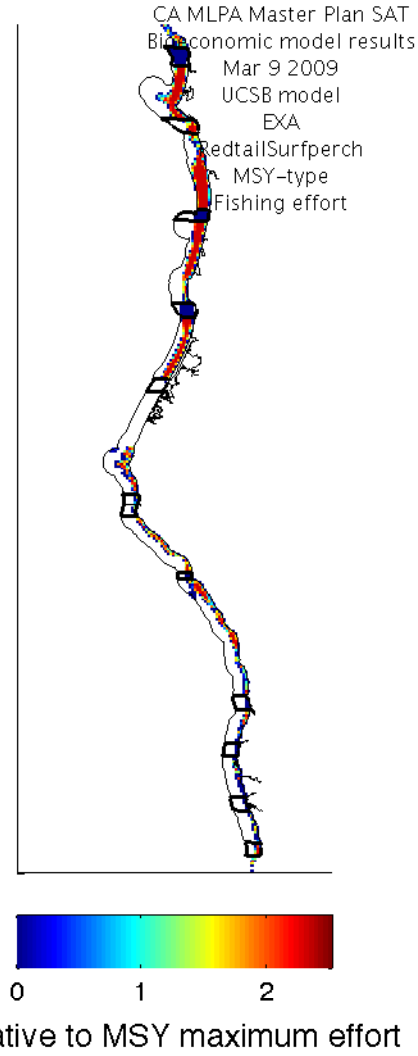

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
Conservative Mgmt
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.4
Relative to MSY

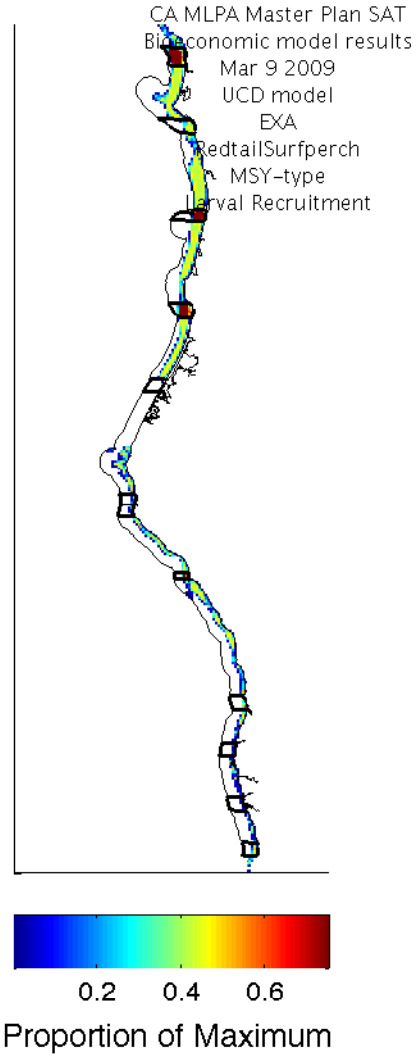

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
Conservative Mgmt
Fishing yield
0 0.4 0.8
Relative to MSY

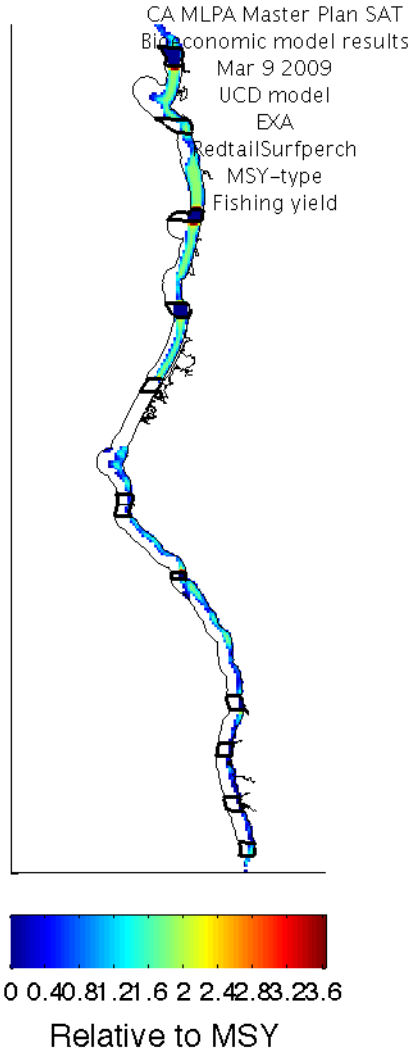

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
MSY-type
Biomass
0.4
0.8
1.2
1.6
2
Relative to unfished

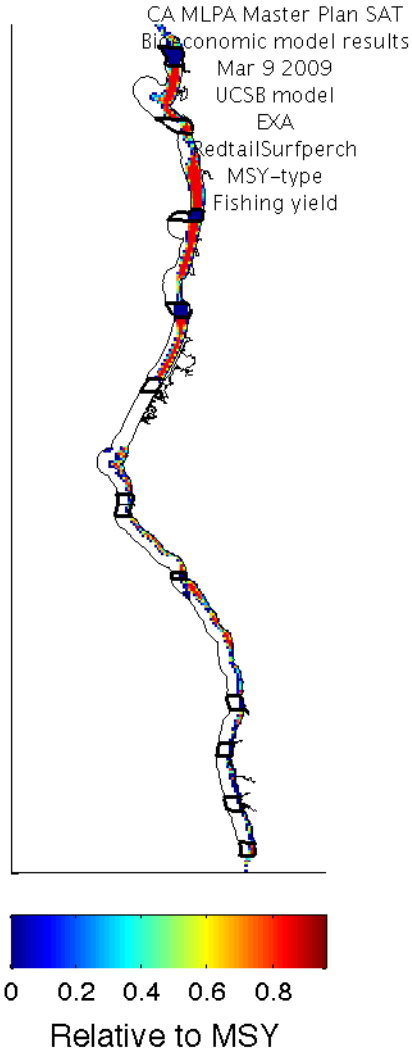

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
MSY-type
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

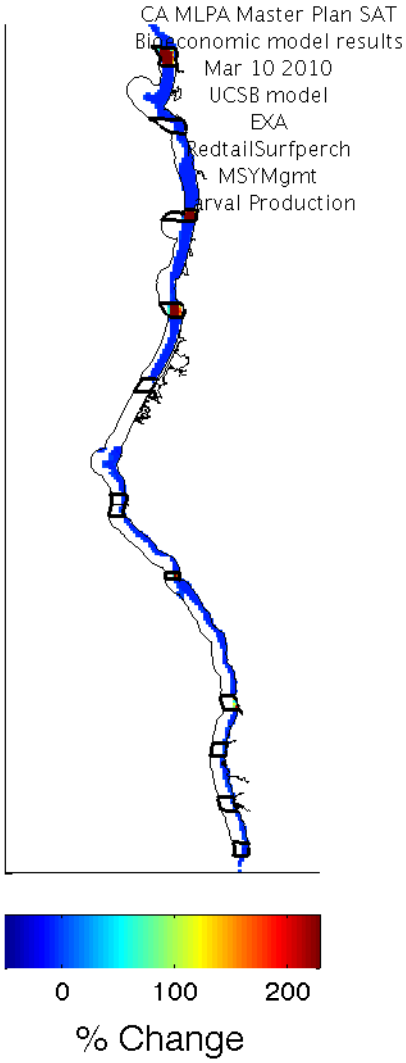

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
MSY-type
Fishing effort
0
1
2
Relative to MSY maximum effort

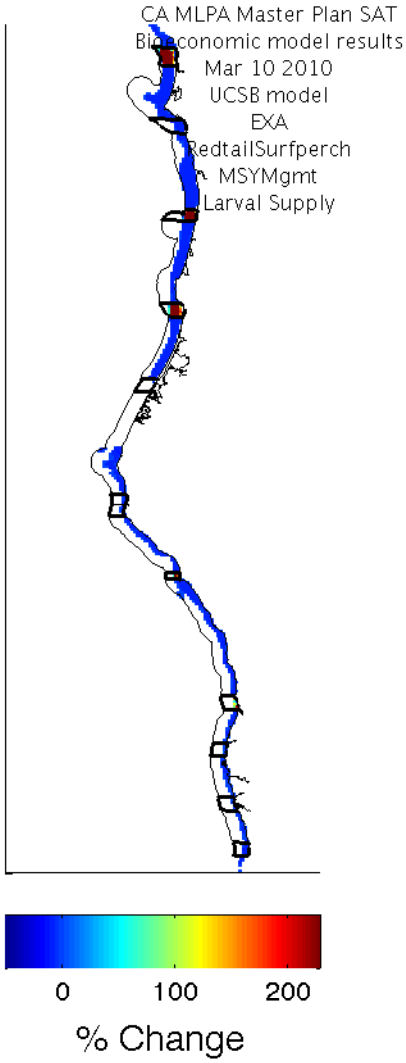

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
MSY-type
Fishing effort
0
1
2
Relative to MSY maximum effort

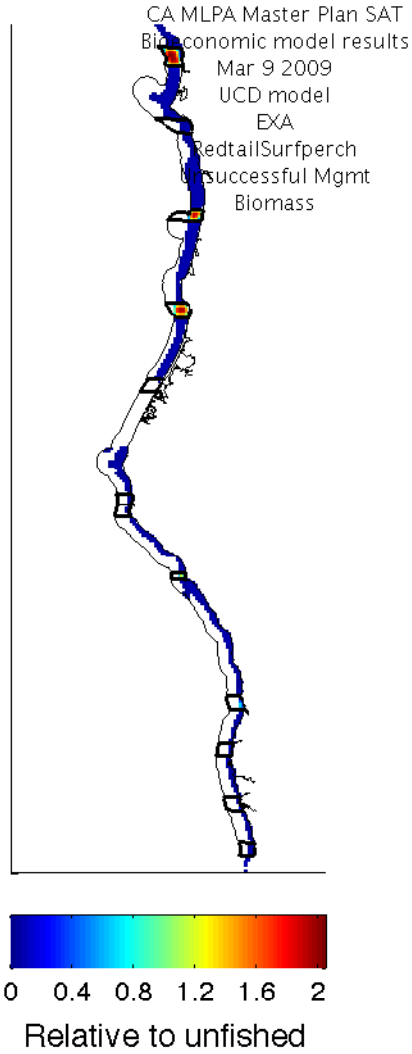

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
MSY-type
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum

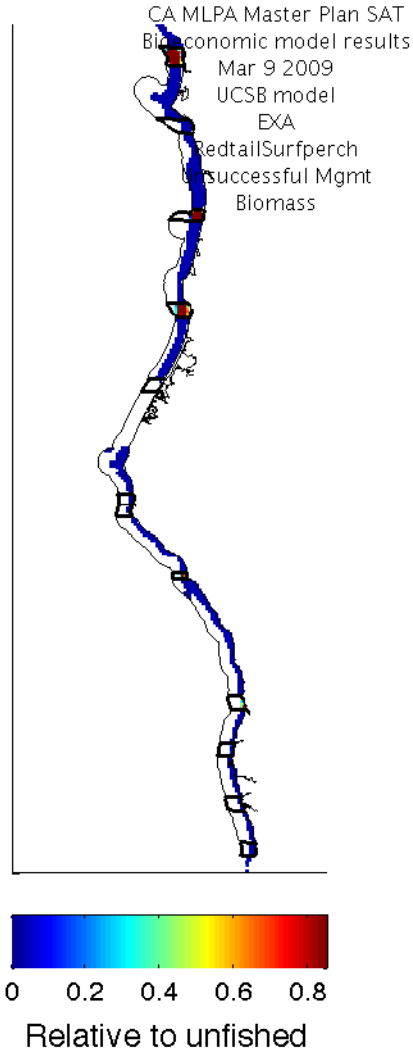

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
MSY-type
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6
Relative to MSY

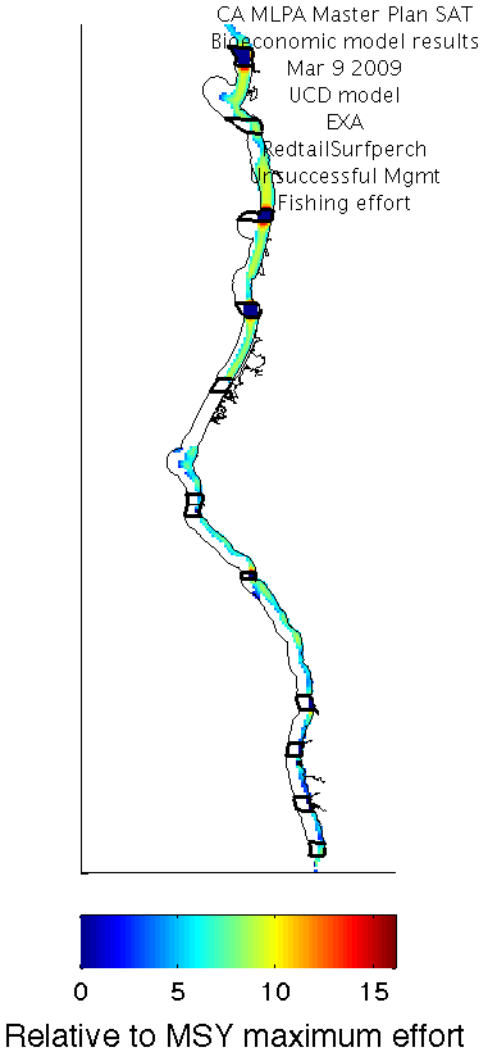

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
MSY-type
Fishing yield
0 0.2 0.4 0.6 0.8
Relative to MSY

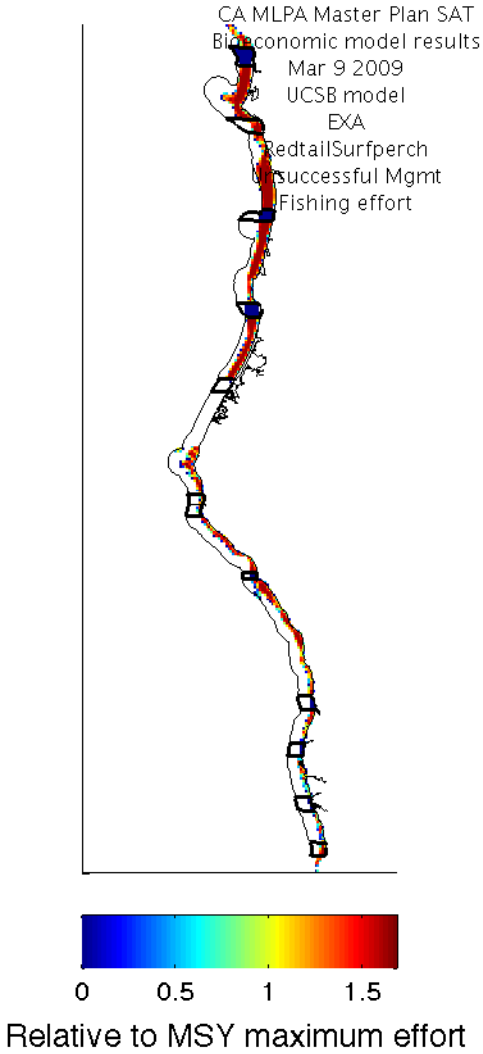

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
RedtailSurfperch
MSYMgmt
Larval Production
0
100
200
% Change

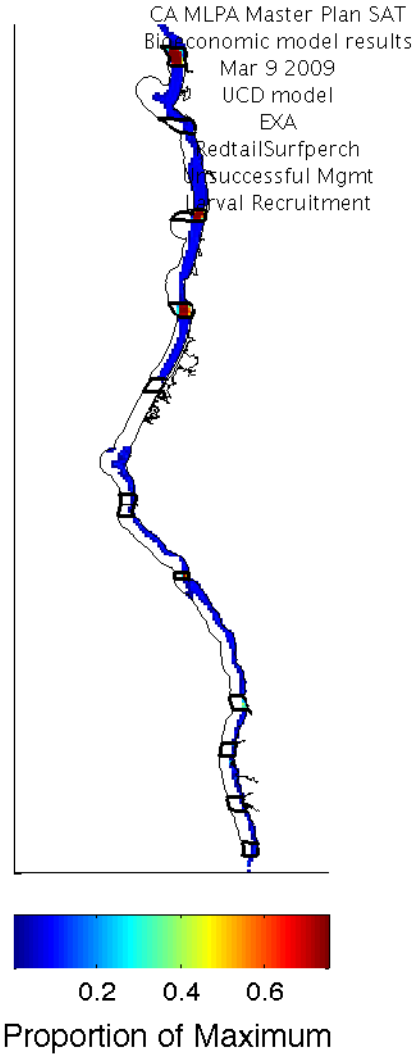

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXA
RedtailSurfperch
MSYMgmt
Larval Supply
0
100
200
% Change

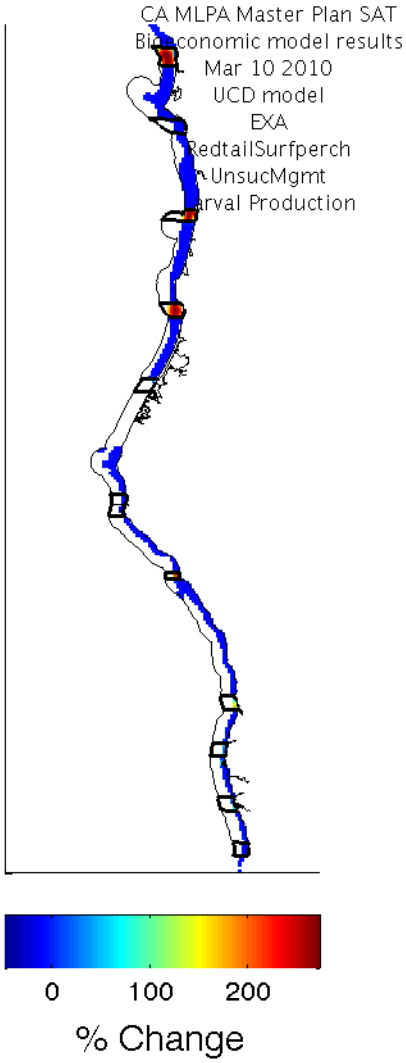

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
Unsuccessful Mgmt
Biomass
0
0.4
0.8
1.2
1.6
2
Relative to unfished

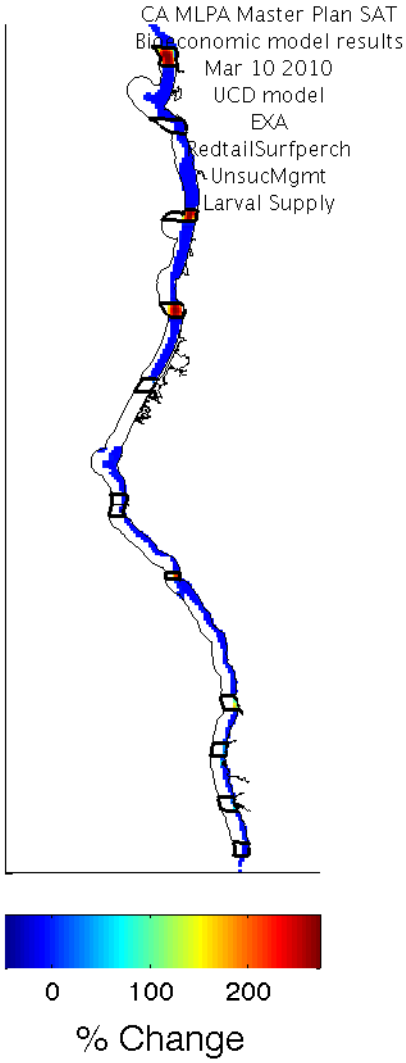

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
Unsuccessful Mgmt
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

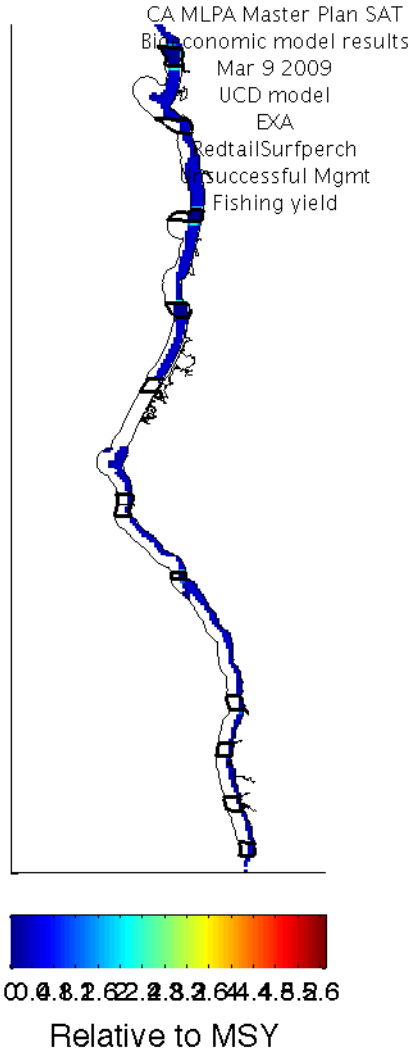

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
Unsuccessful Mgmt
Fishing effort
0
5
10
15
Relative to MSY maximum effort

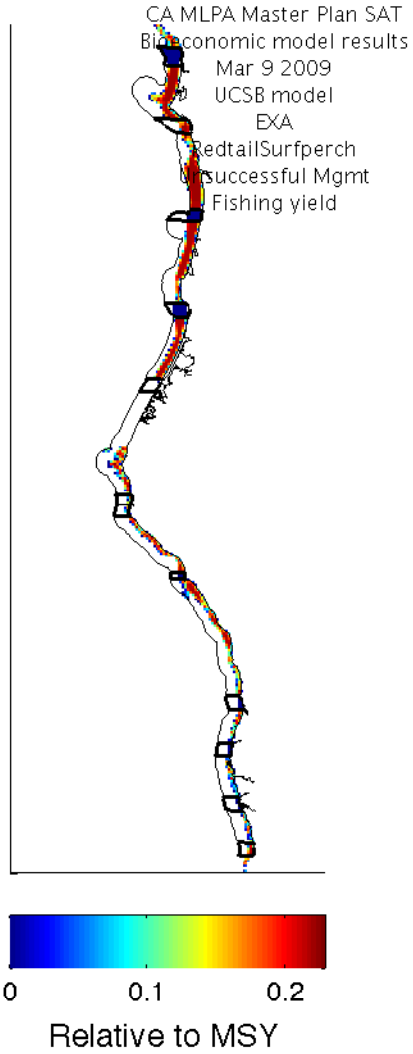

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
Unsuccessful Mgmt
Fishing effort
0
0.5
1
1.5
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
Unsuccessful Mgmt
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXA
RedtailSurfperch
UnsucMgmt
Larval Production
0
100
200
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXA
RedtailSurfperch
UnsucMgmt
Larval Supply
0
100
200
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXA
RedtailSurfperch
Unsuccessful Mgmt
Fishing yield
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXA
RedtailSurfperch
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
Relative to MSY