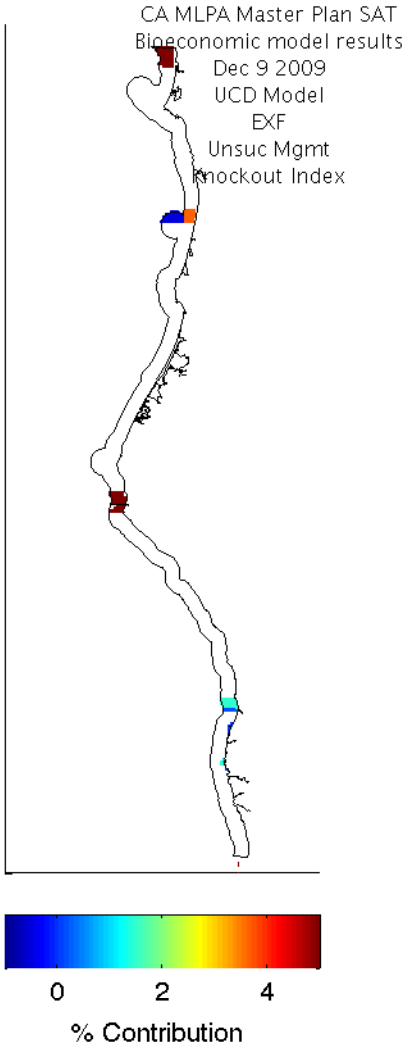
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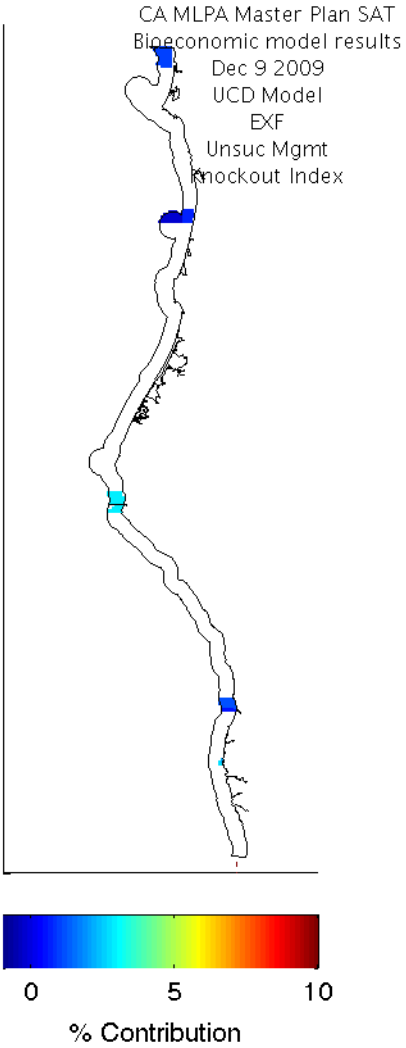
Bioeconomic model results
Dec 9 2009
UCD Model
EXF
Unsuc Mgmt
Knockout Index
0
2
4
% Contribution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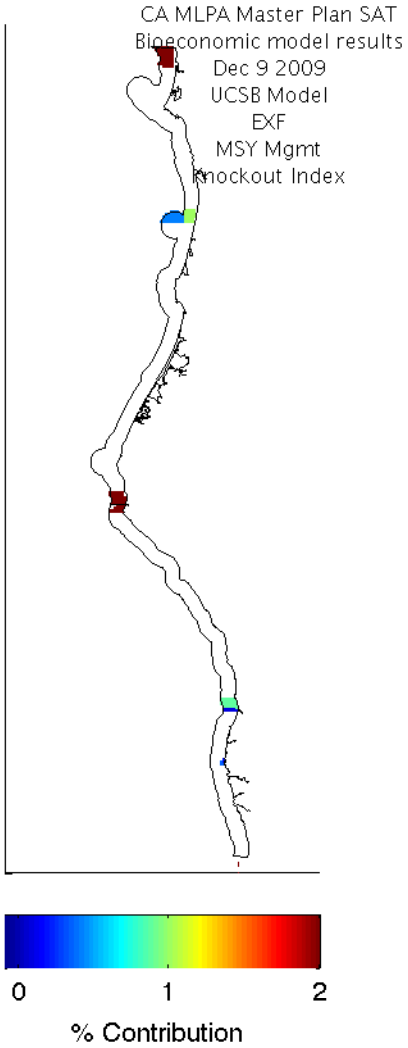
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UCSB Model
EXF
MSY Mgmt
Knockout Index
0
1
2
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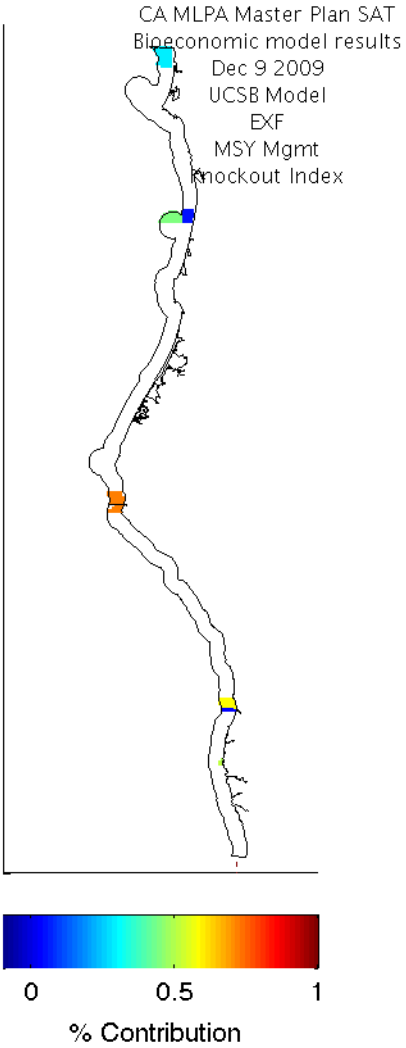
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EXF
MSY Mgmt
Knockout Index
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0.5
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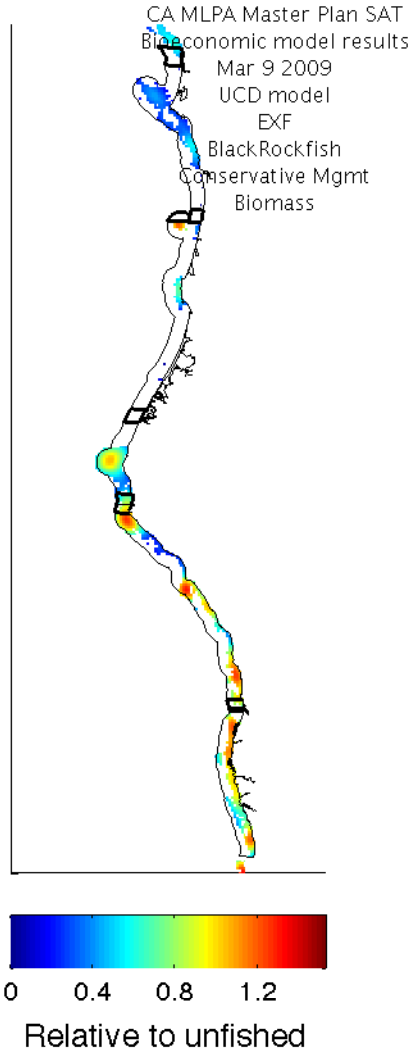
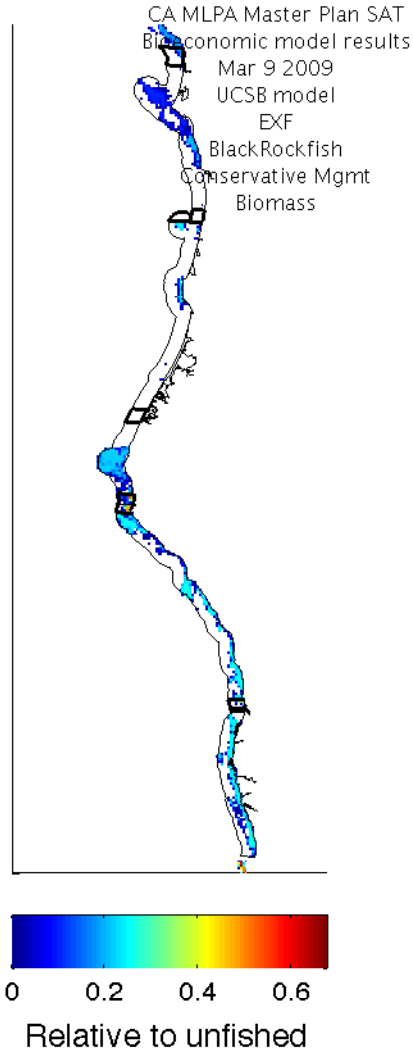

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
BlackRockfish
Conservative Mgmt
Biomass
0
0.4
0.8
1.2
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
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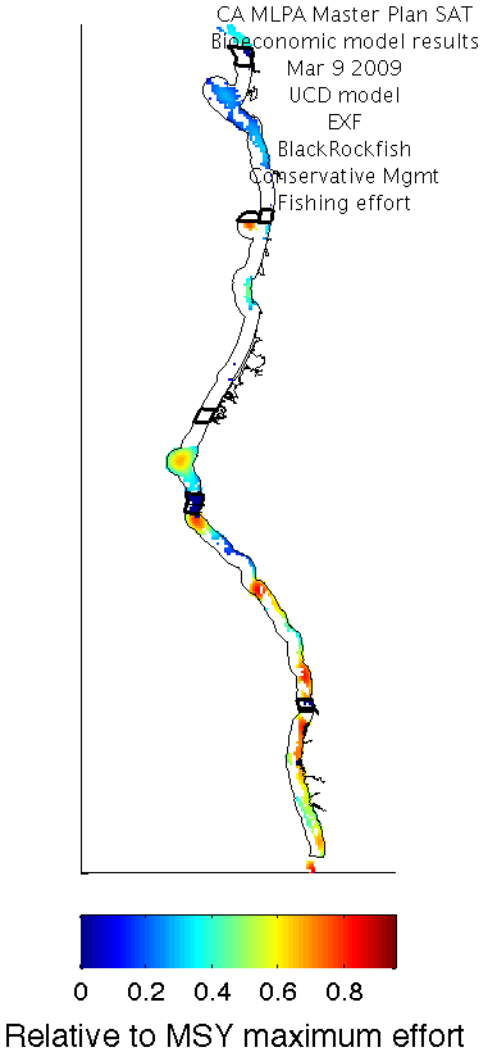
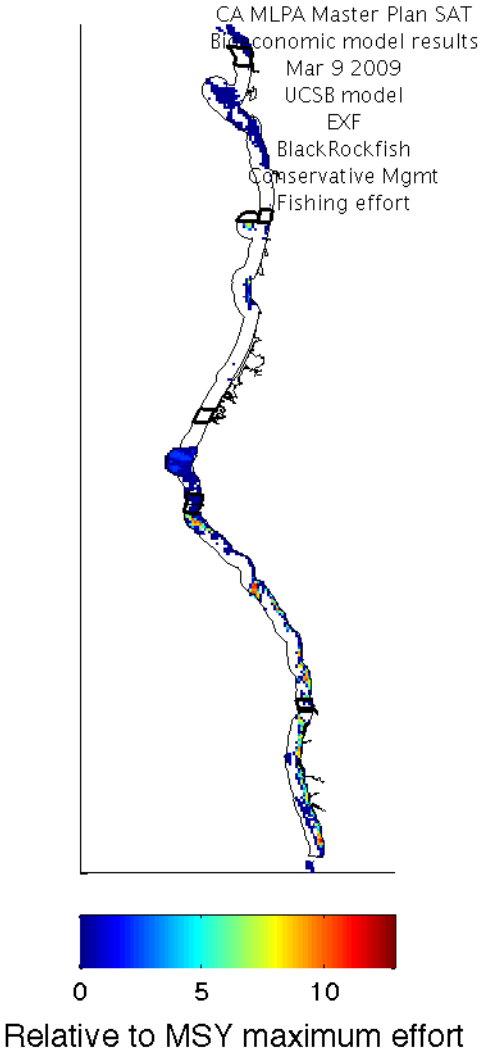
UCSB model
EXF
BlackRockfish
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
BlackRockfish
Conservative Mgmt
Fishing effort
0
0.2
0.4
0.6
0.8
Relative to MSY maximum effort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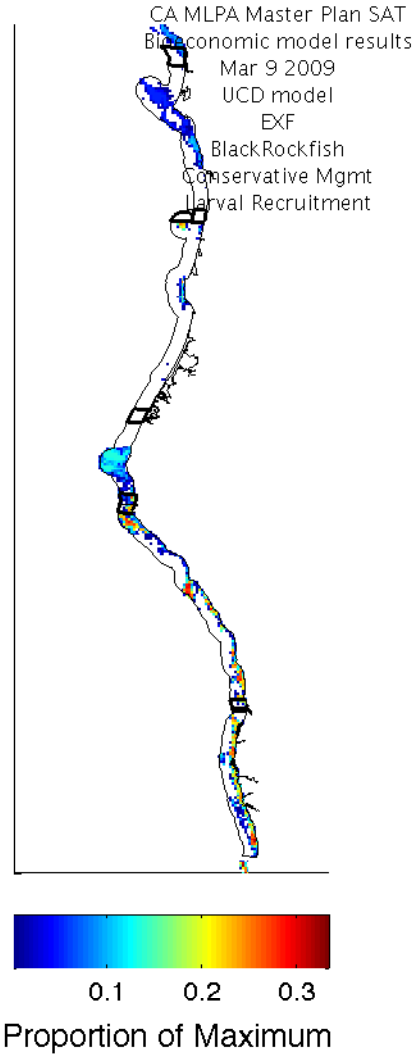
Mar 9 2009
UCSB model
EXF
BlackRockfish
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort


CA MLPA Master Plan SAT
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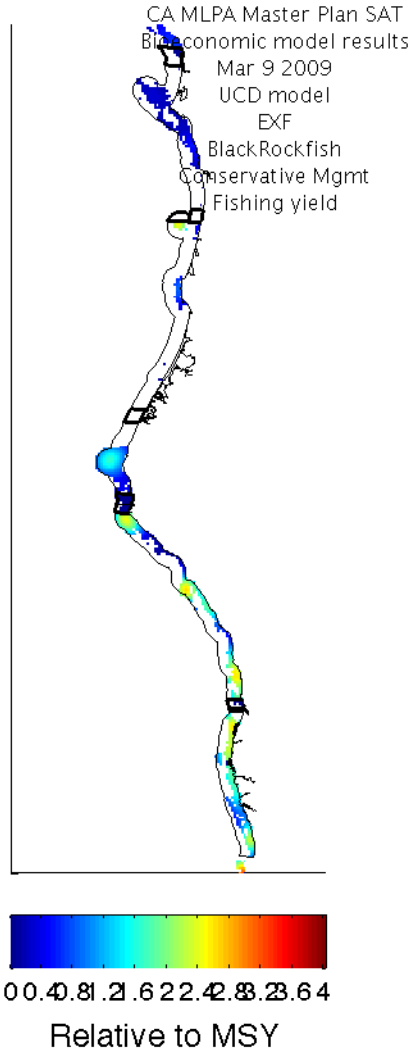
UCD model
EXF
BlackRockfish
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
Proportion of Maximum


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
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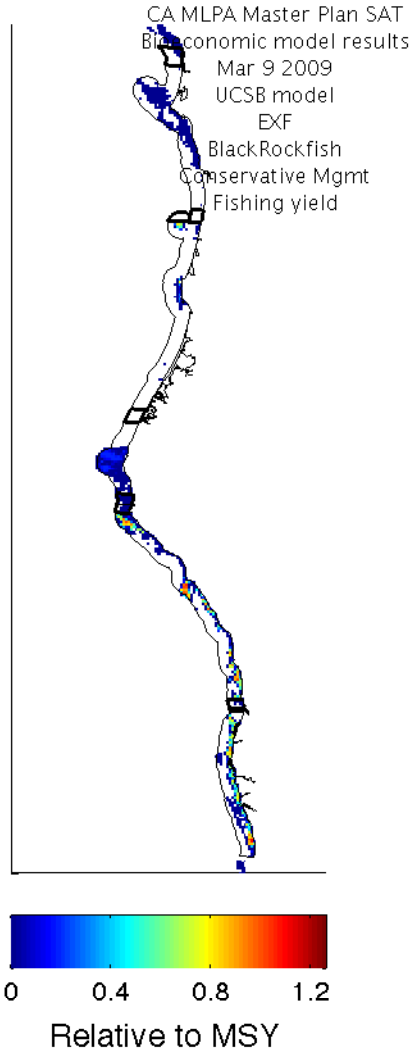
EXF
BlackRockfish
Conservative Mgmt
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4
Relative to MSY


CA MLPA Master Plan SAT
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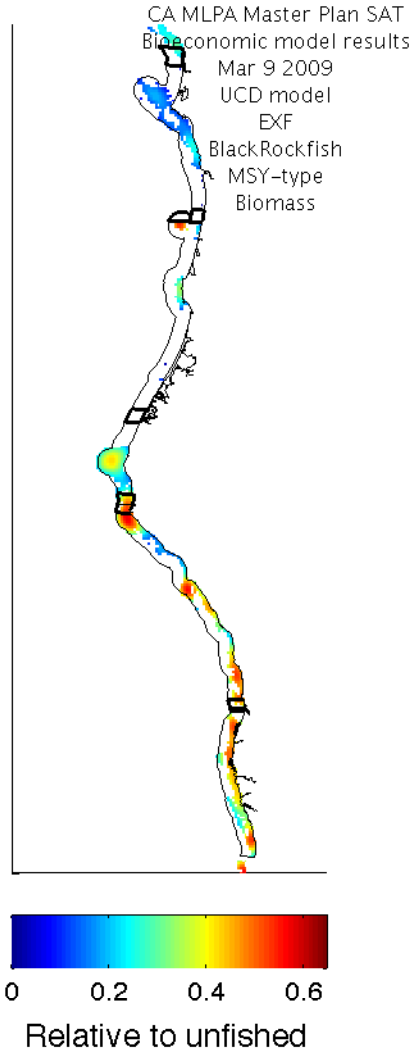
EXF
BlackRockfish
Conservative Mgmt
Fishing yield
0
0.4
0.8
1.2
Relative to MSY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Bioeconomic model results
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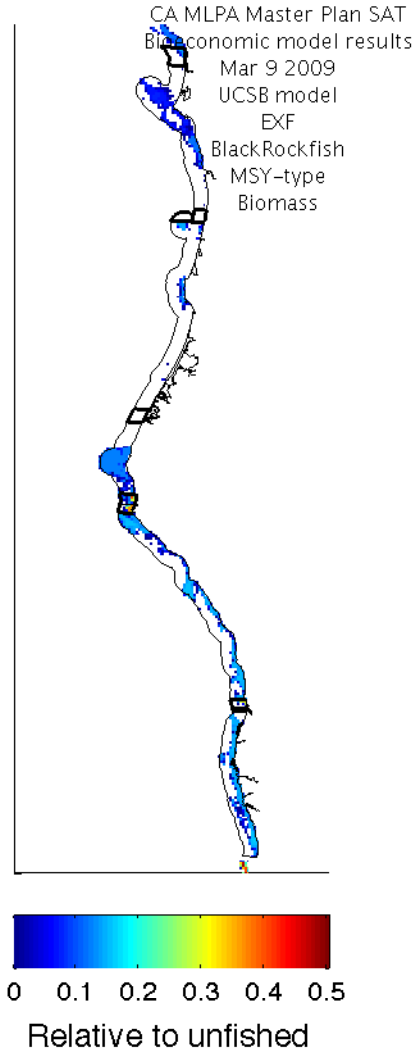
UCD model
EXF
BlackRockfish
MSY-type
Biomass
0
0.2
0.4
0.6
Relative to unfished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Bioeconomic model results
Mar 9 2009
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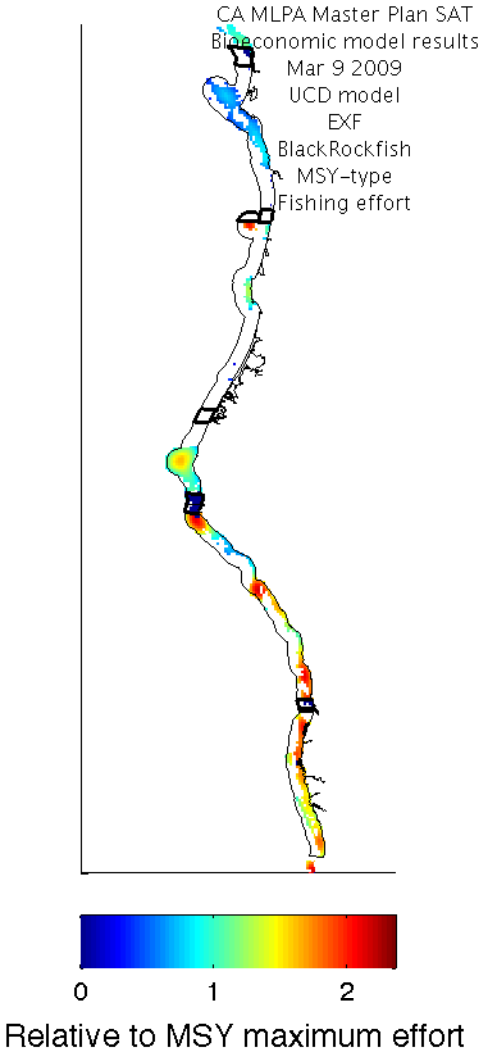
EXF
BlackRockfish
MSY-type
Biomass
0
0.1
0.2
0.3
0.4
0.5
Relative to unfished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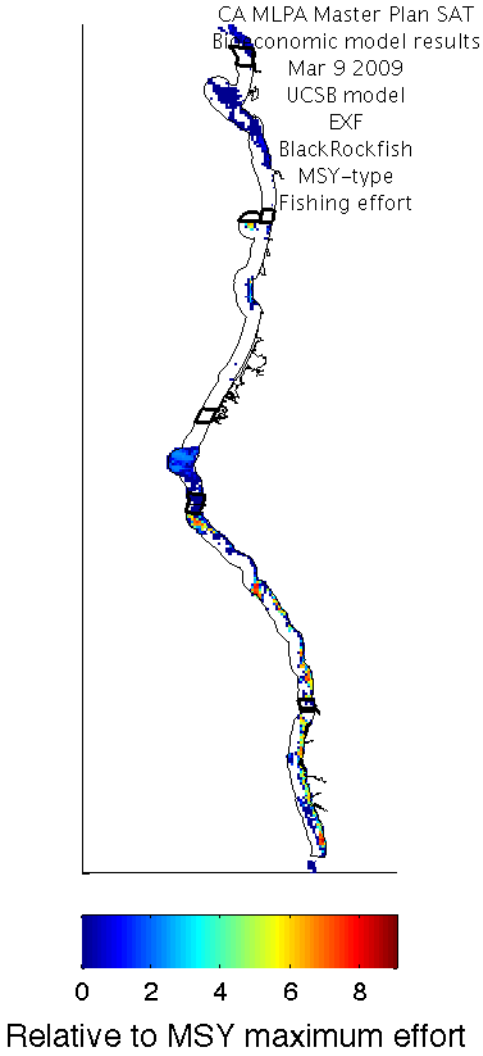
Bioeconomic model results
Mar 9 2009
UCD model
EXF
BlackRockfish
MSY-type
Fishing effort
0
1
2
Relative to MSY maximum effort


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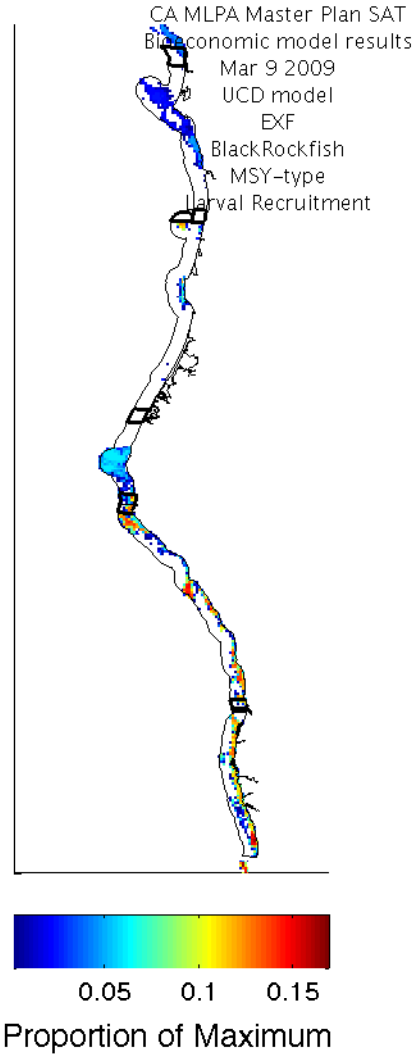
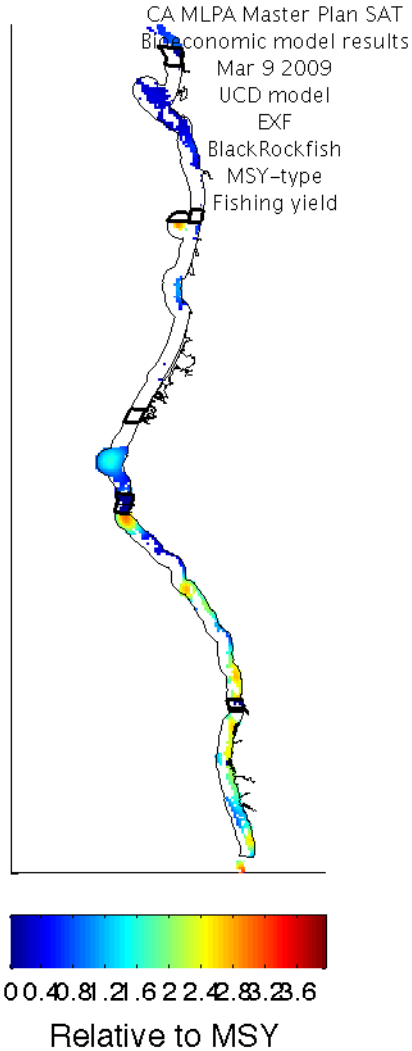
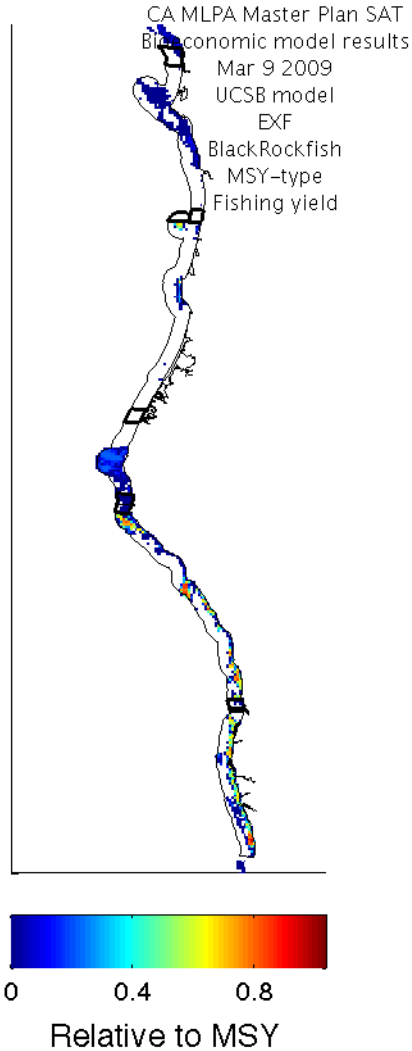
UCSB model
EXF
BlackRockfish
MSY-type
Fishing effort
0
2
4
6
8
Relative to MSY maximum effort


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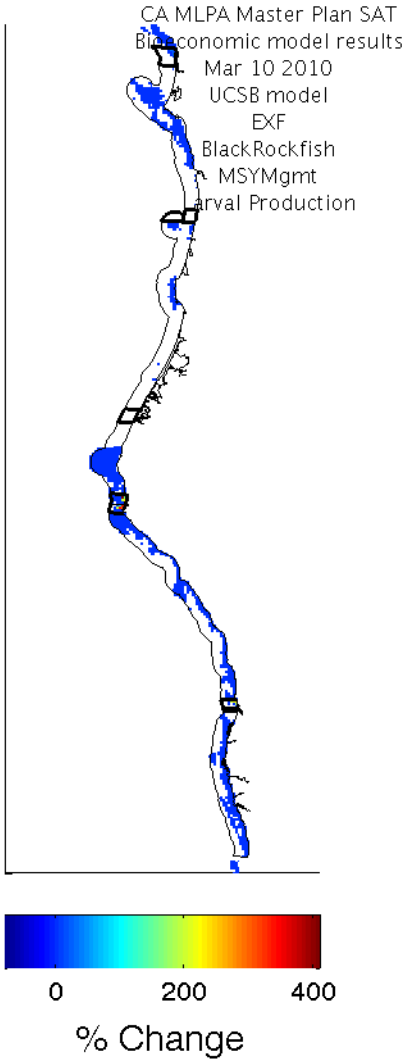
UCSB model
EXF
BlackRockfish
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY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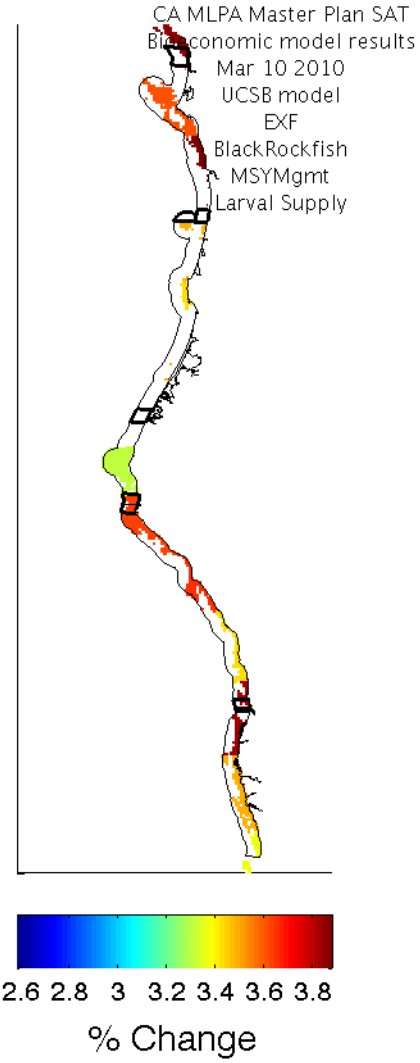
Bioeconomic model results
Mar 10 2010
UCSB model
EXF
BlackRockfish
MSYMgmt
Larval Production
0
200
400
% Change


CA MLPA Master Plan SAT
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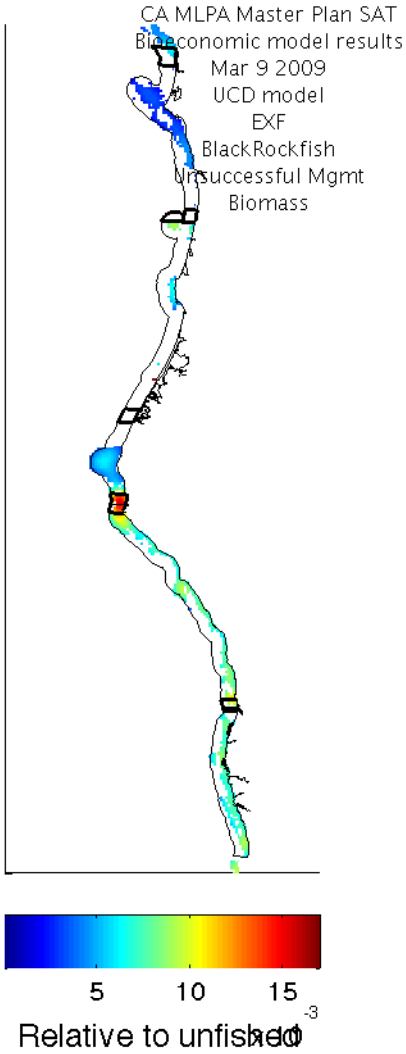
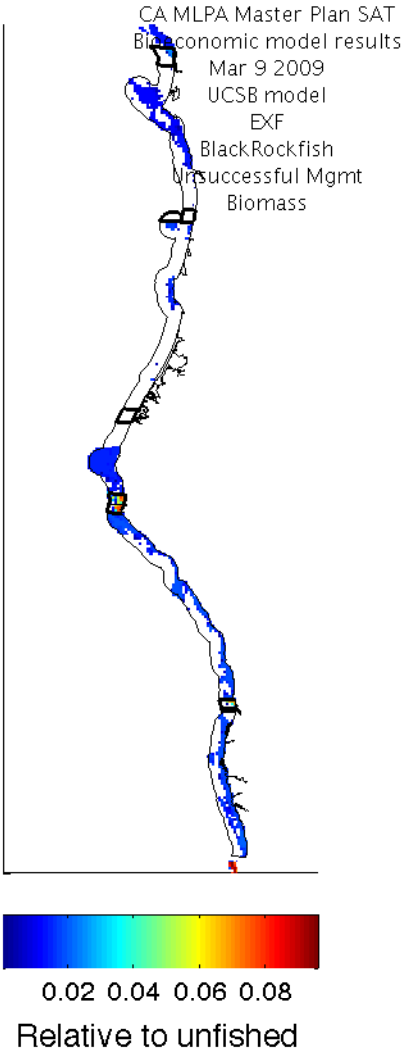
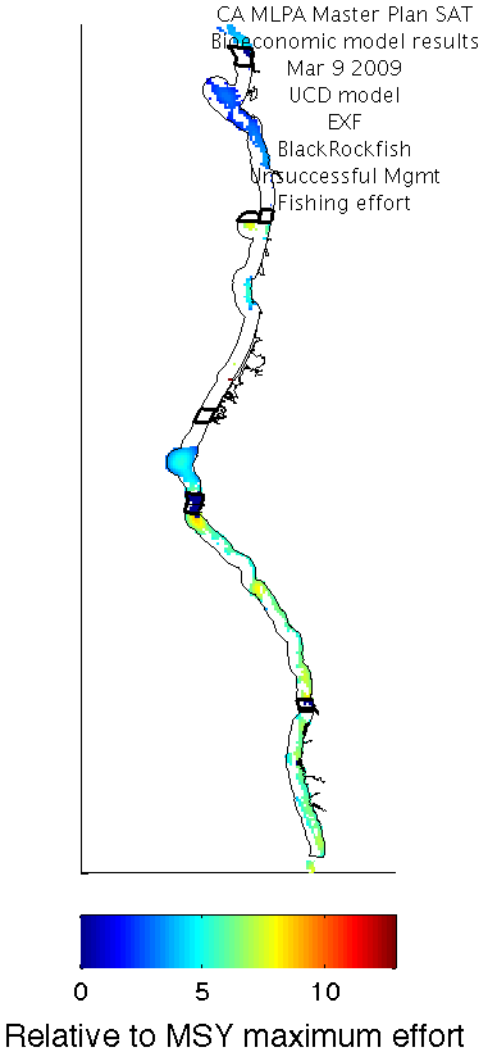
Mar 10 2010
UCSB model
EXF
BlackRockfish
MSYMgmt
Larval Supply
2.6 2.8 3 3.2 3.4 3.6 3.8
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
BlackRockfish
Unsuccessful Mgmt
Biomass
5
10
15
x 10^-3
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
BlackRockfish
Unsuccessful Mgmt
Biomass
0.02
0.04
0.06
0.08
Relative to unfished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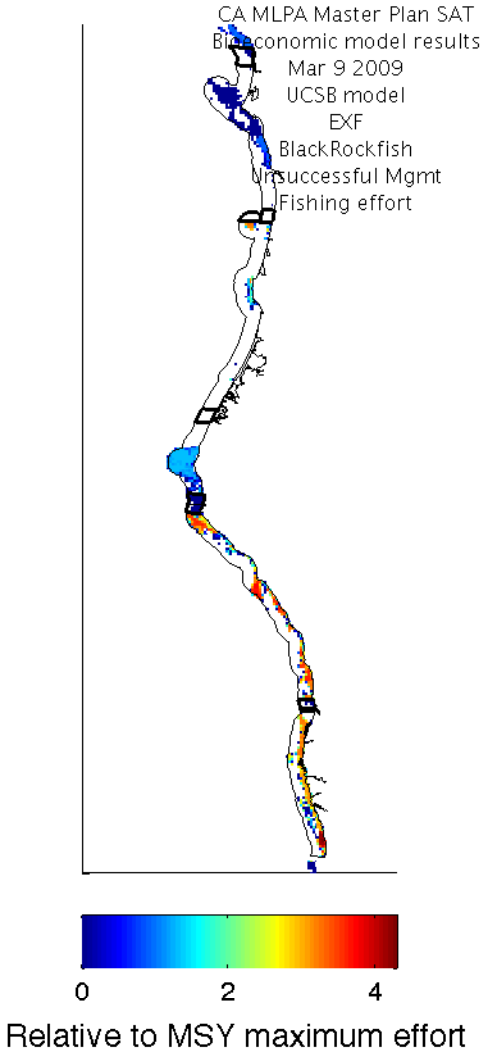
Bioeconomic model results
Mar 9 2009
UCD model
EXF
BlackRockfish
Unsuccessful Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort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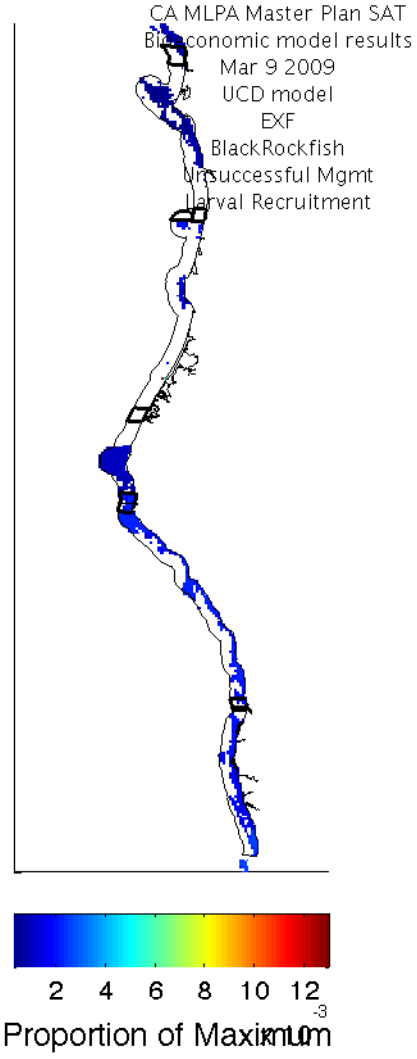
UCSB model
EXF
BlackRockfish
Unsuccessful Mgmt
Fishing effort
0
2
4
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
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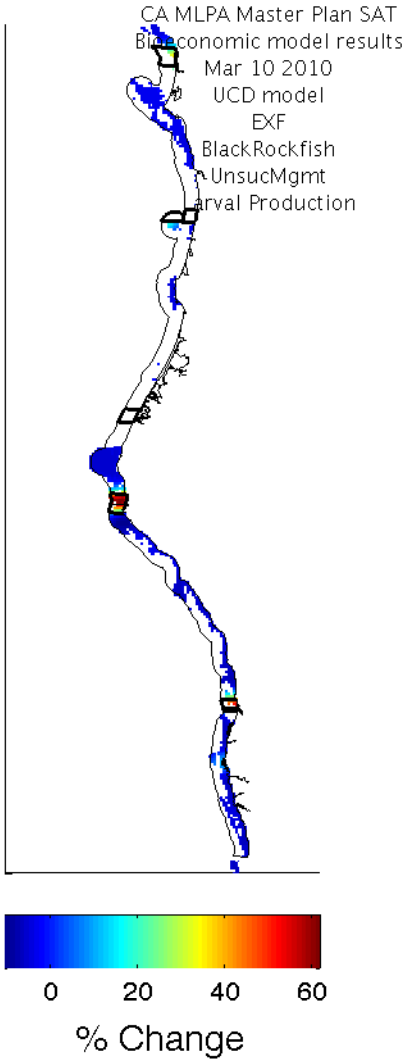
UCD model
EXF
BlackRockfish
Unsuccessful Mgmt
Larval Recruitment
2
4
6
8
10
12
x10^-3
Proportion of Maximum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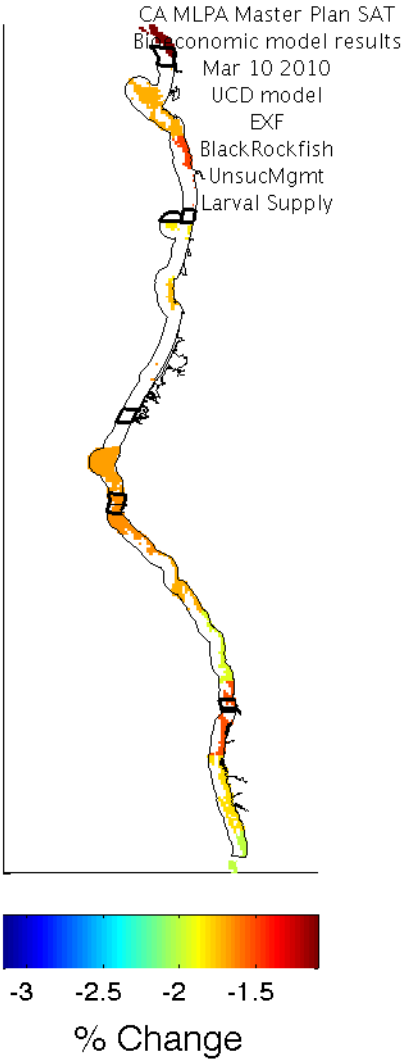
Bioeconomic model results
Mar 10 2010
UCD model
EXF
BlackRockfish
UnsucMgmt
Larval Production
0
20
40
60
% Change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Bioeconomic model results
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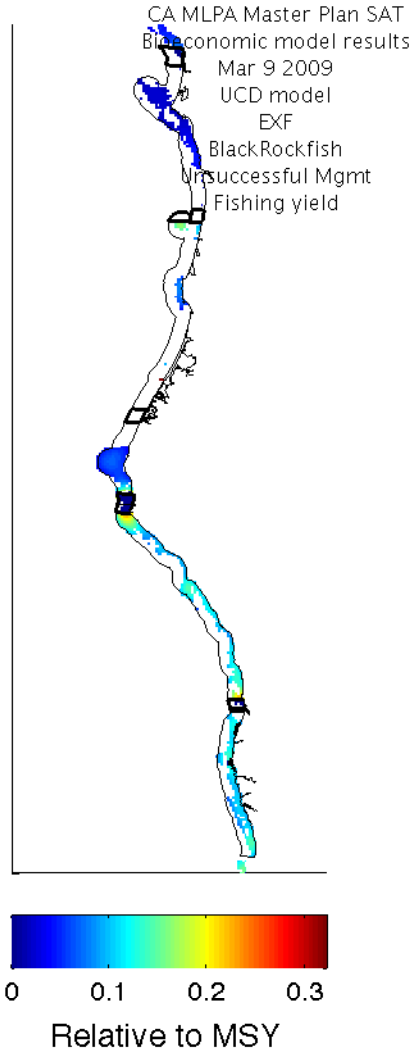
UCD model
EXF
BlackRockfish
UnsucMgmt
Larval Supply
-3
-2.5
-2
-1.5
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
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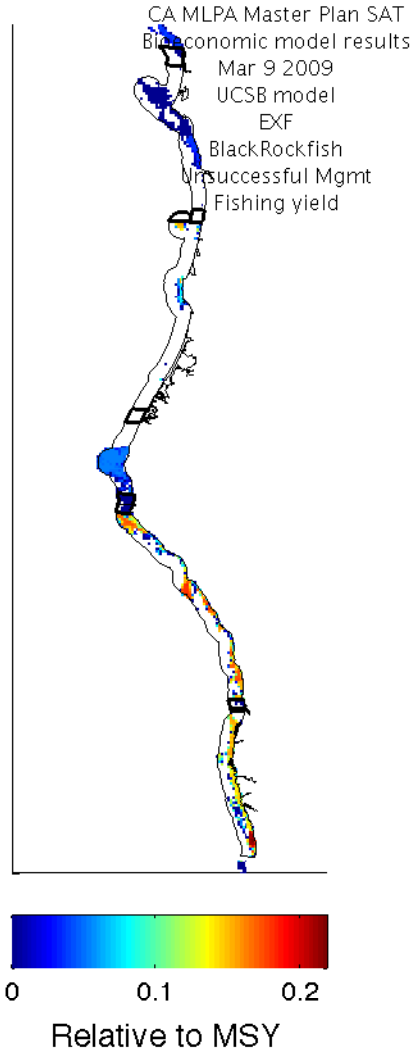
UCD model
EXF
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
0.3
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
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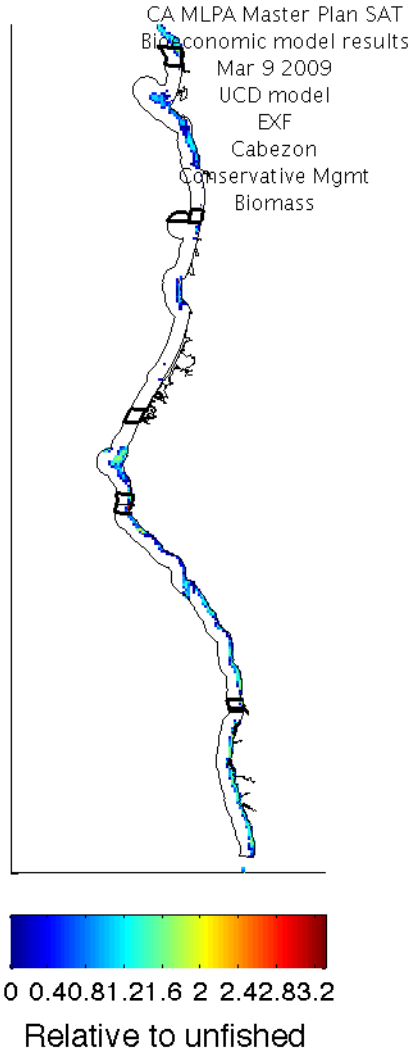
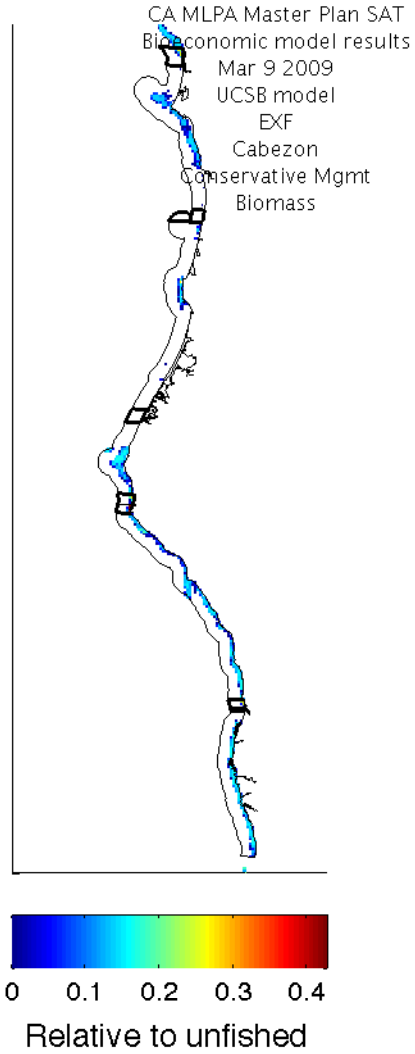
UCSB model
EXF
BlackRockfish
Unsuccessful Mgmt
Fishing yield
0
0.1
0.2
Relative to MSY


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
Cabezon
Conservative Mgmt
Biomass
0 0.40.81.21.6 2 2.42.83.2
Relative to unfished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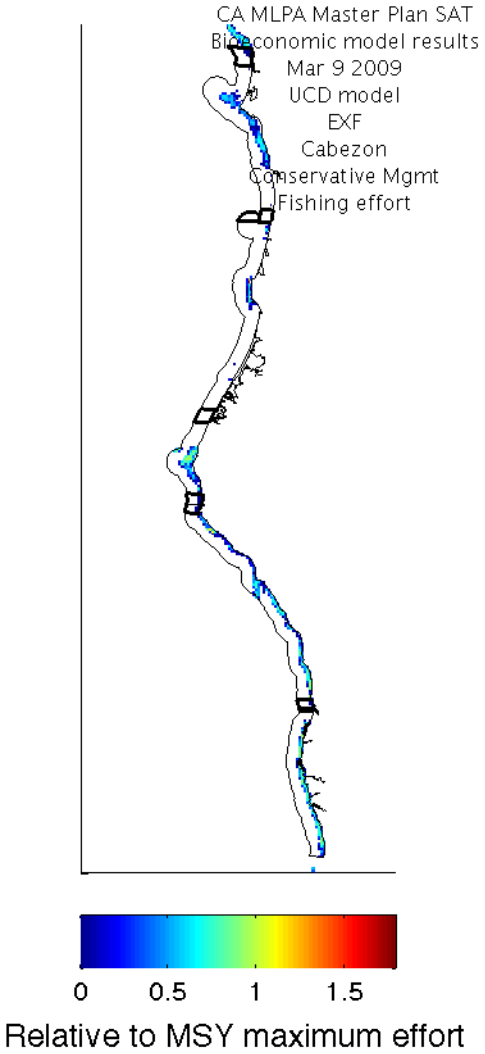
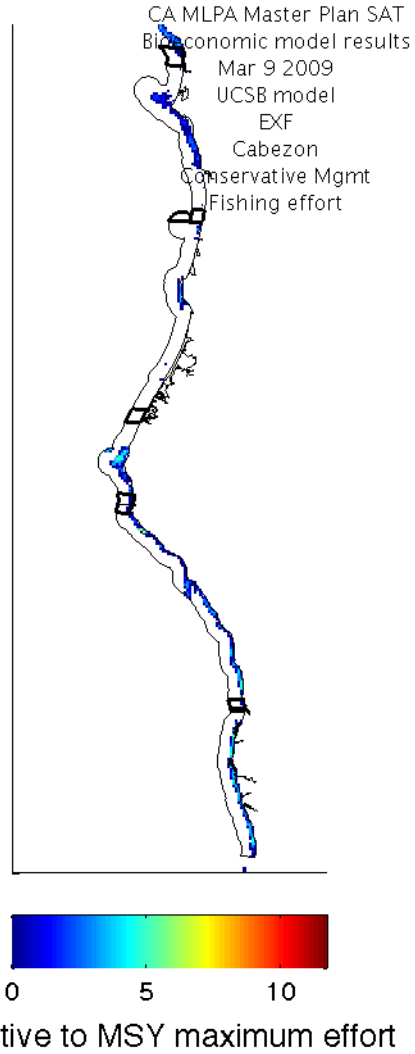
UCSB model
EXF
Cabezon
Conservative Mgmt
Biomass
0 0.1 0.2 0.3 0.4
Relative to unfished


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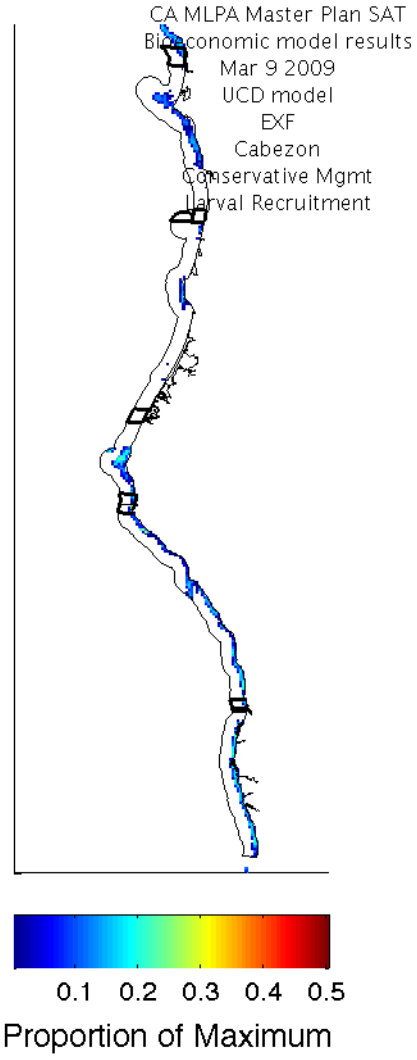
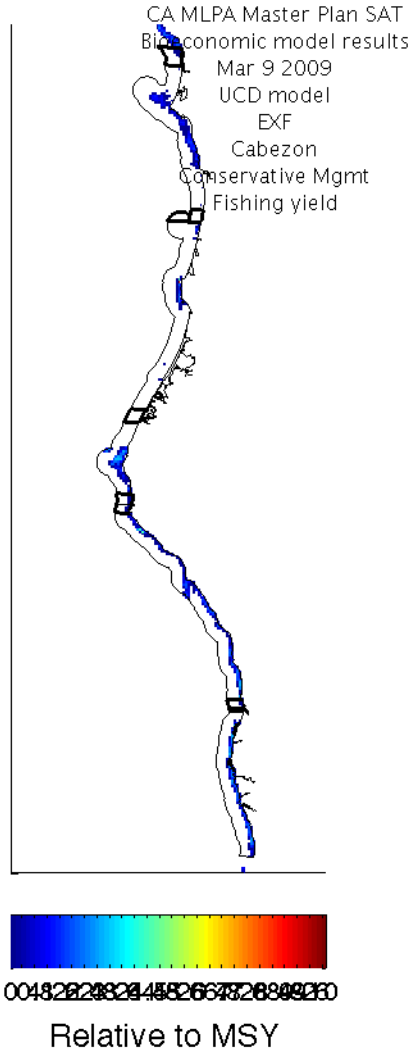
Mar 9 2009
UCSB model
EXF
Cabezon
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort


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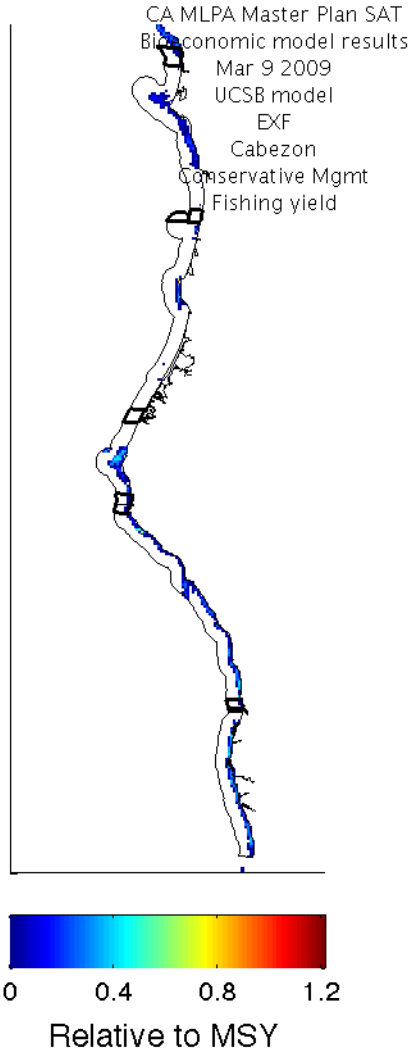
UCD model
EXF
Cabezon
Conservative Mgmt
Fishing yield
Relative to MSY


CA MLPA Master Plan SAT
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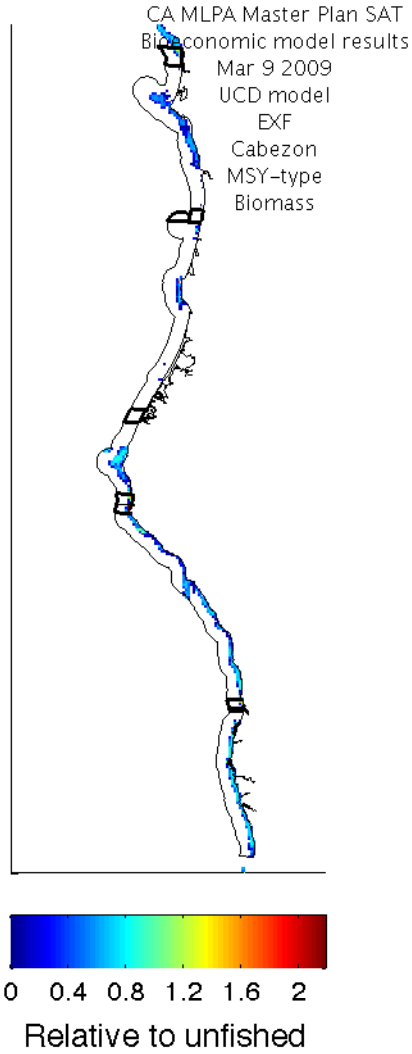
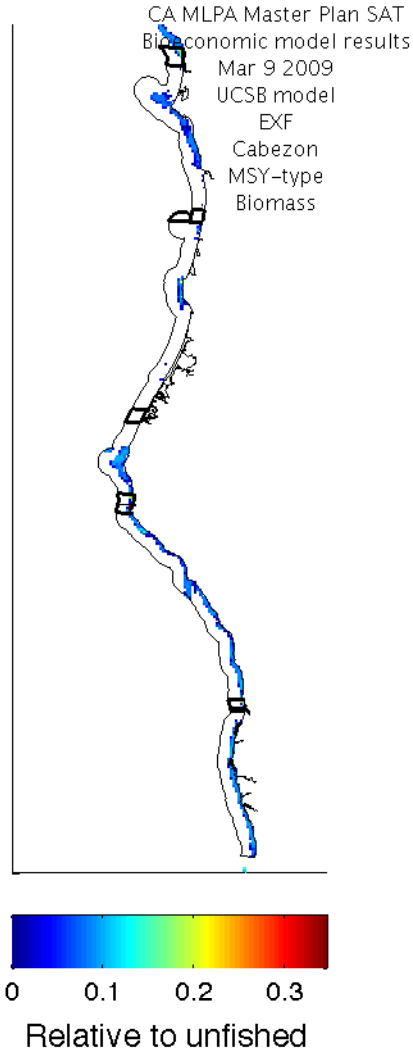
Mar 9 2009
UCSB model
EXF
Cabezon
Conservative Mgmt
Fishing yield
0
0.4
0.8
1.2
Relative to MSY


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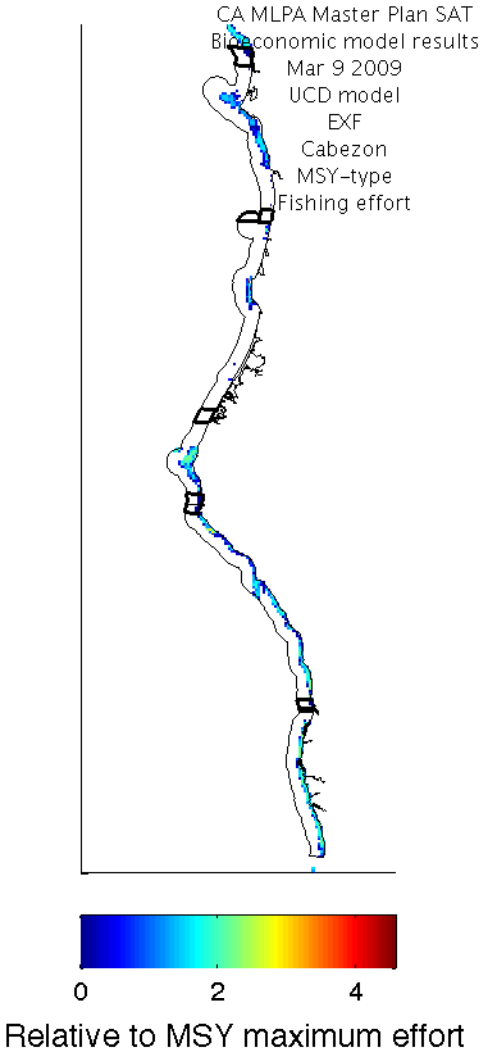
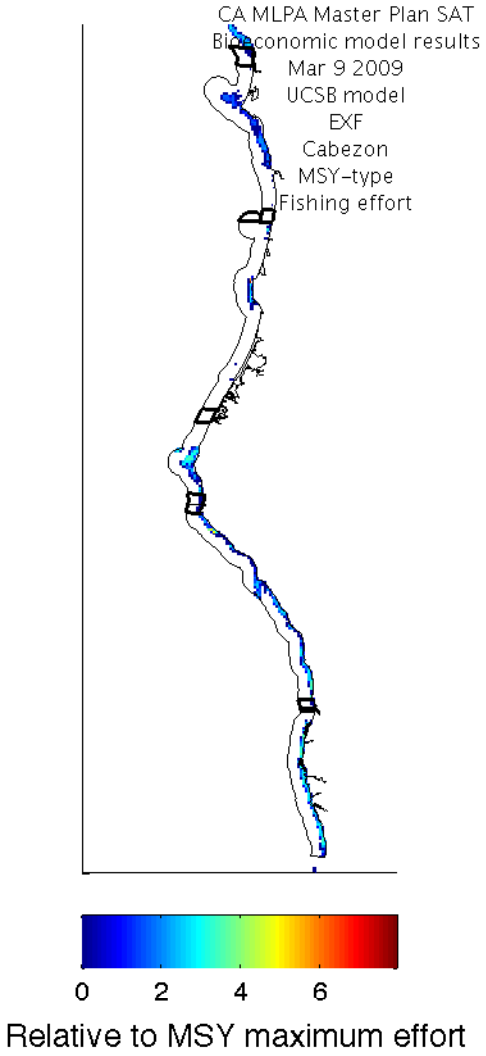
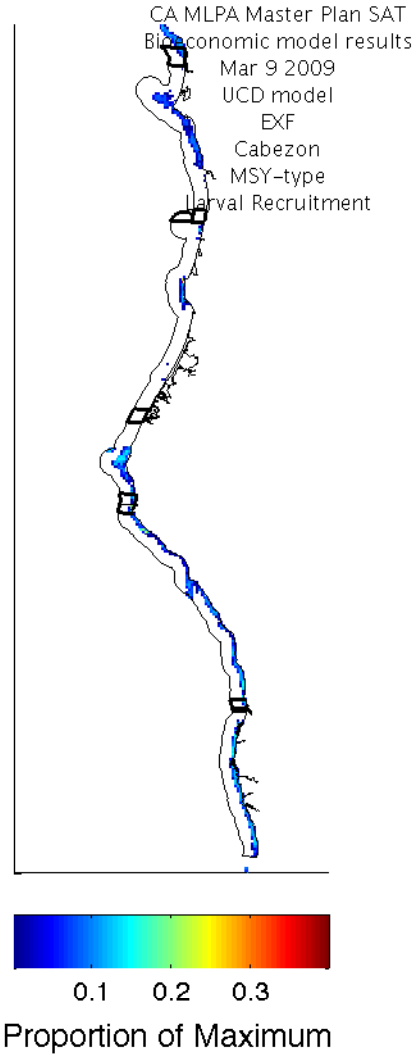
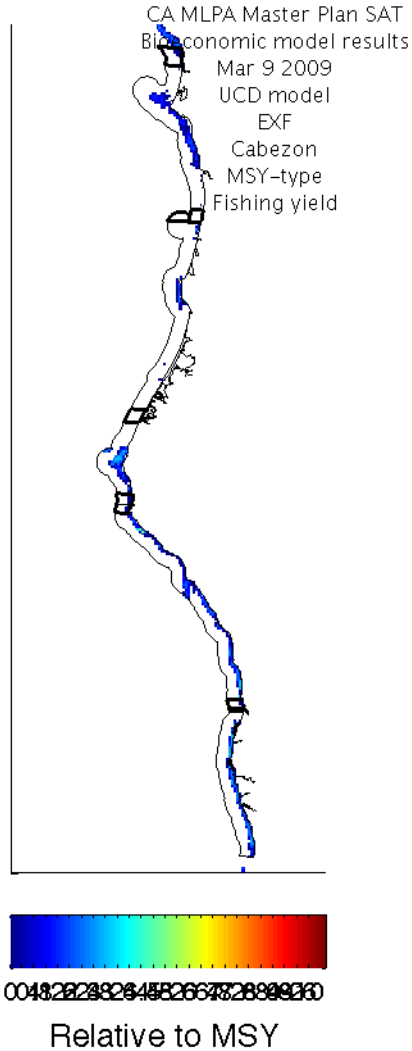
Mar 9 2009
UCSB model
EXF
Cabezon
MSY-type
Biomass
0
0.1
0.2
0.3
Relative to unfished


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


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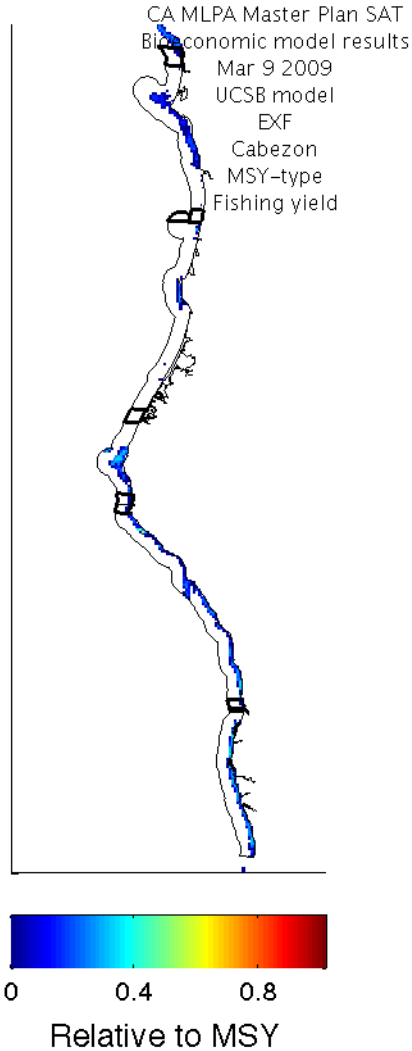
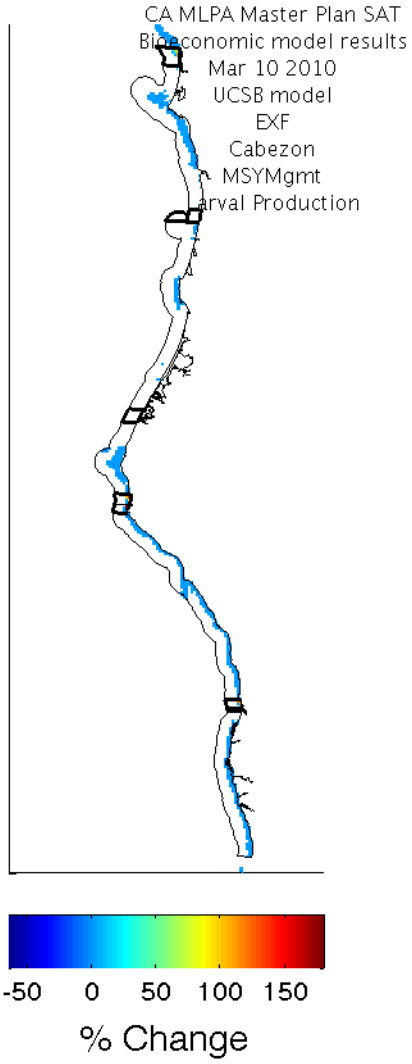
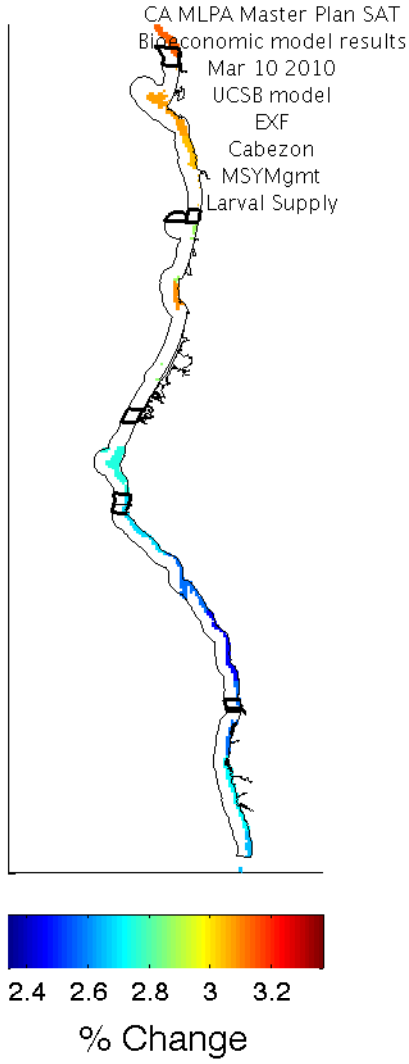
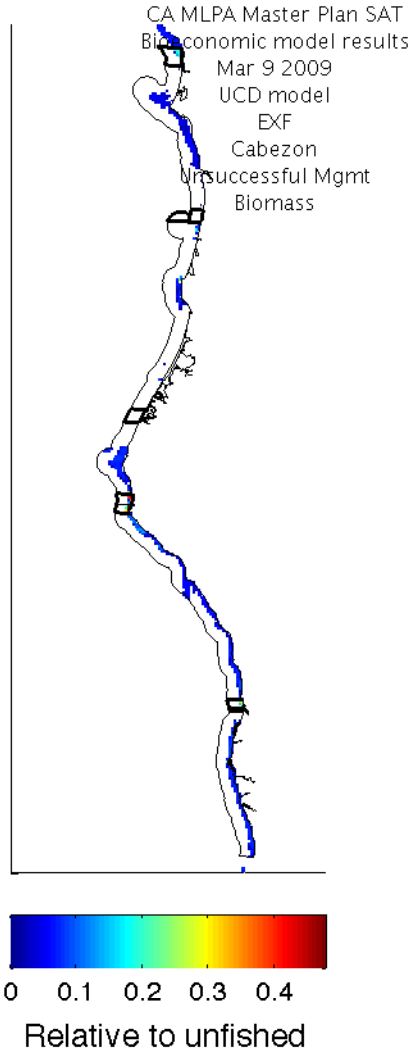
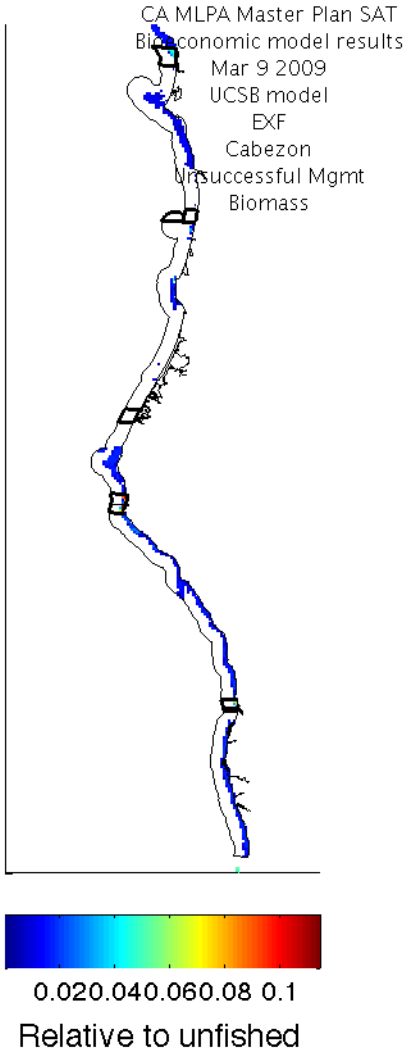
Bioeconomic model results
Mar 9 2009
UCD model
EXF
Cabezon
MSY-type
Fishing yield
Relative to MSY

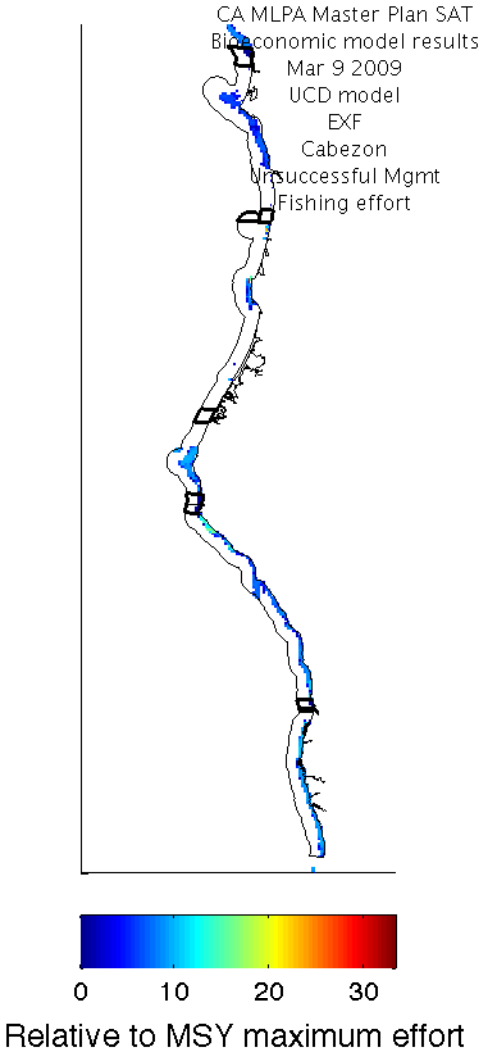

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
Cabezon
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

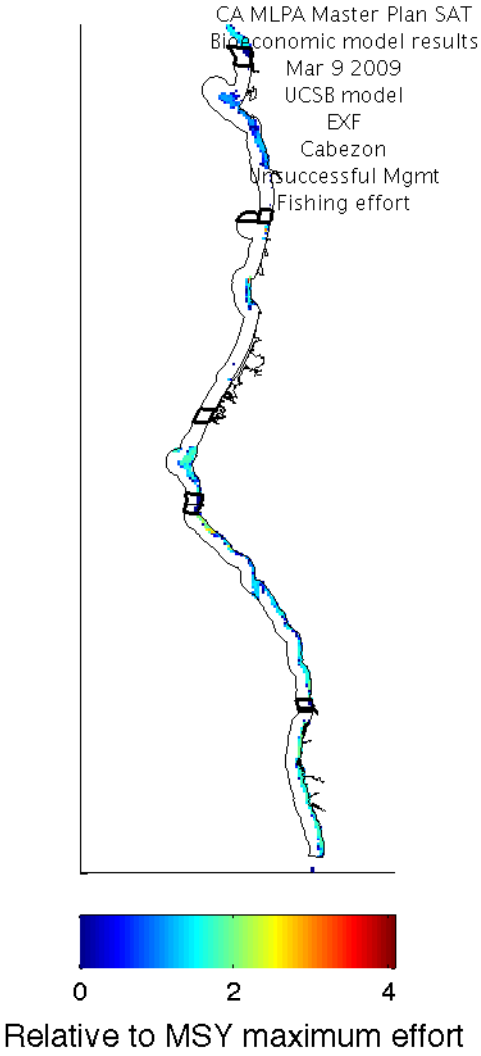

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXF
Cabezon
MSYMgmt
arval Production
-50
0
50
100
150
% Change

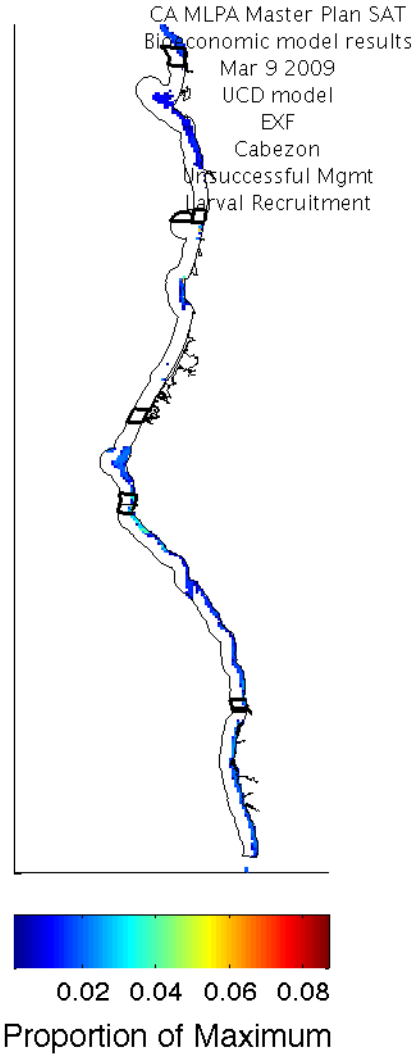

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXF
Cabezon
MSYMgmt
Larval Supply
2.4
2.6
2.8
3
3.2
% Change

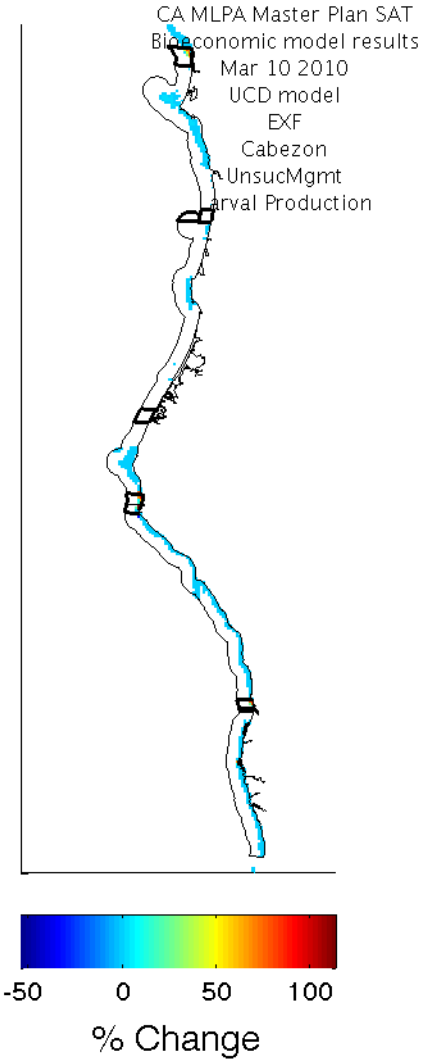

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
Cabezon
Unsuccessful Mgmt
Biomass
0
0.1
0.2
0.3
0.4
Relative to unfished

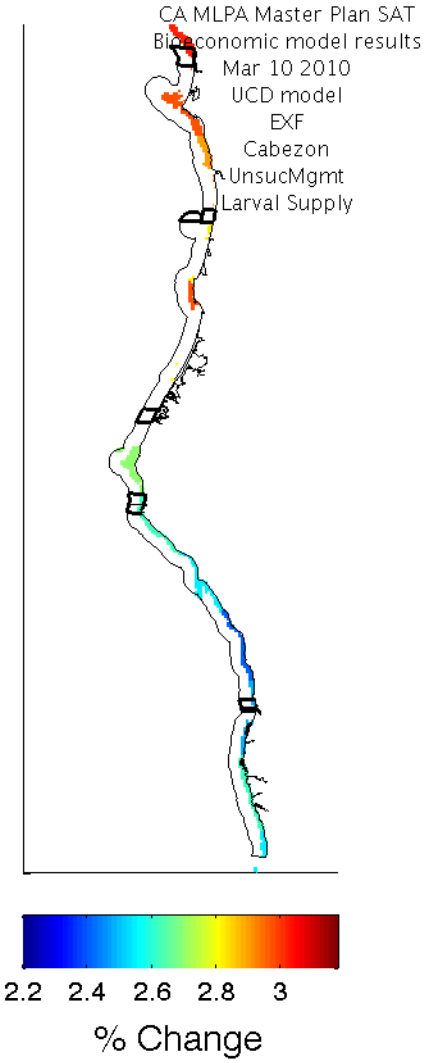

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
Cabezon
Unsuccessful Mgmt
Biomass
0.02
0.04
0.06
0.08
0.1
Relative to unfished

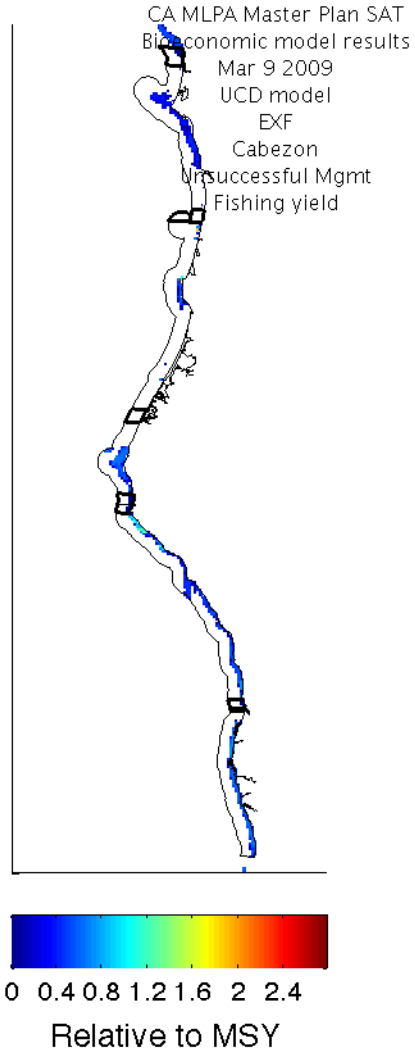

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
Cabezon
Unsuccessful Mgmt
Fishing effort
0
10
20
30
Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
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
EXF
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
EXF
Cabezon
UnsucMgmt
arval Production
-50
0
50
100
% Change


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCD model
EXF
Cabezon
UnsucMgmt
Larval Supply
2.2
2.4
2.6
2.8
3
% Change


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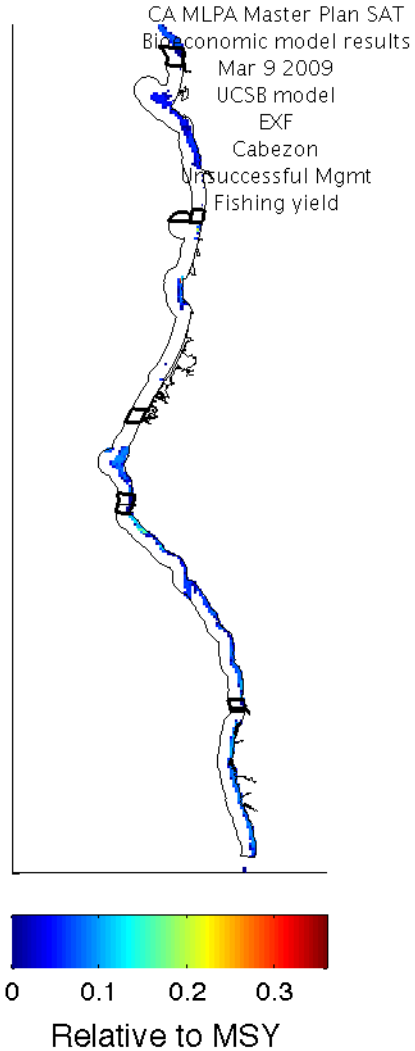
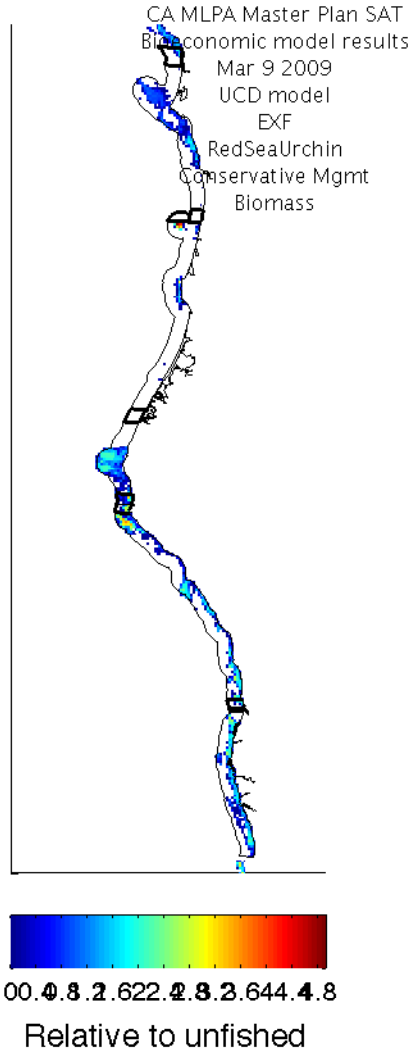
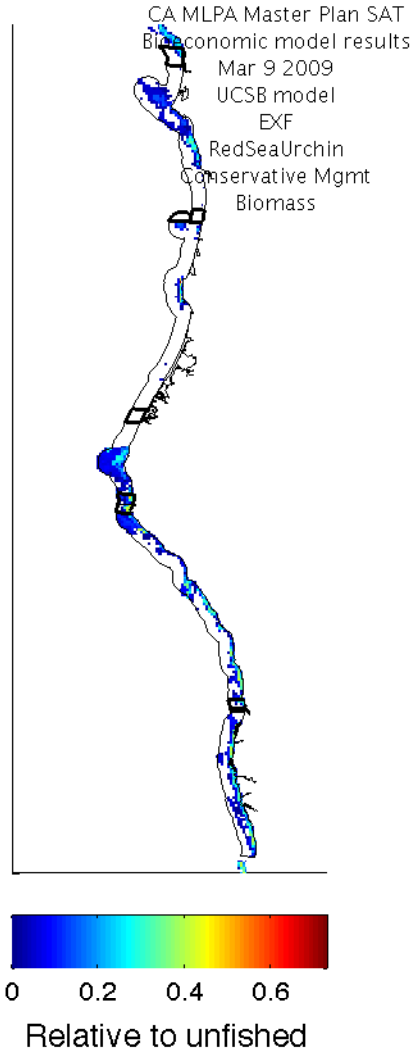
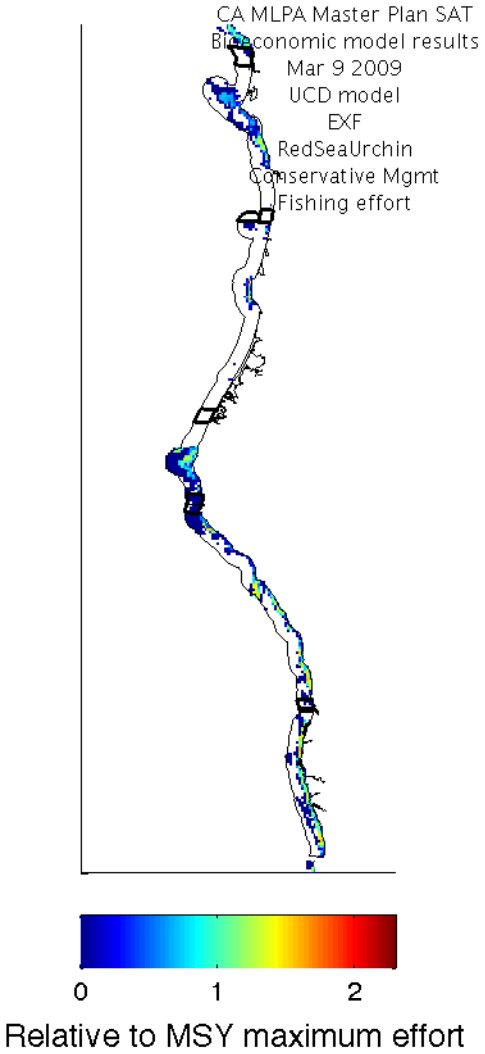
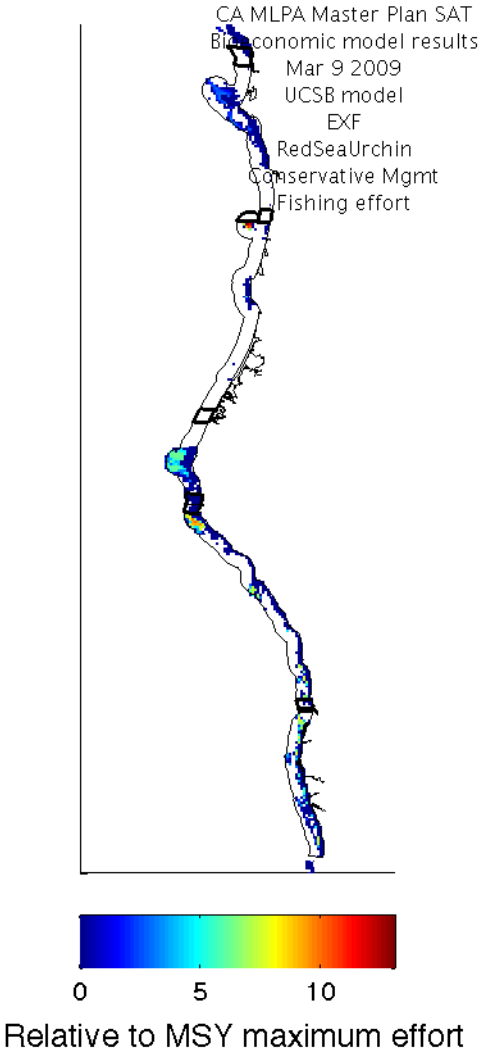
UCD model
EXF
Cabezon
Unsuccessful Mgmt
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.4
Relative to MSY

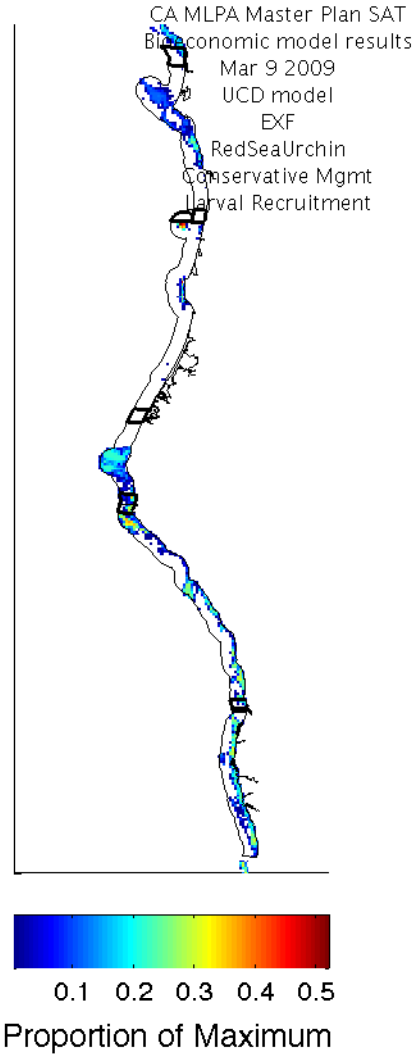

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
Cabezon
Unsuccessful Mgmt
Fishing yield
0 0.1 0.2 0.3
Relative to MSY

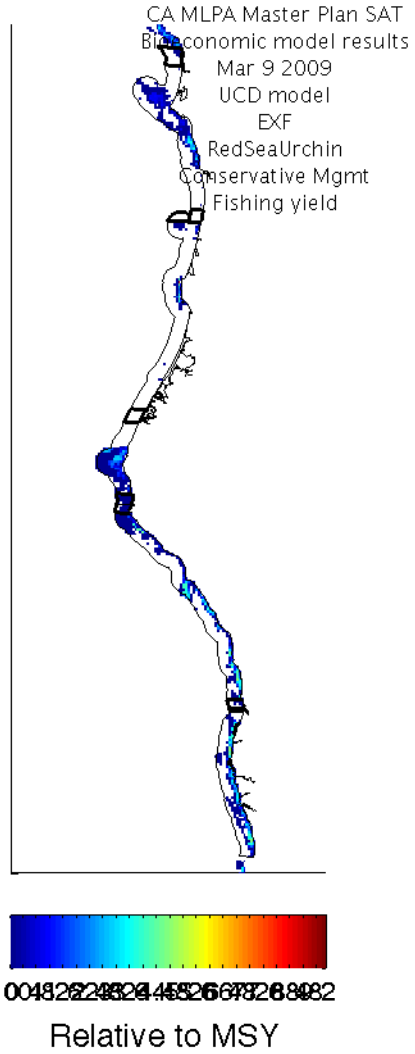

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
Conservative Mgmt
Biomass
0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2 3.6 4.0 4.4 4.8
Relative to unfished

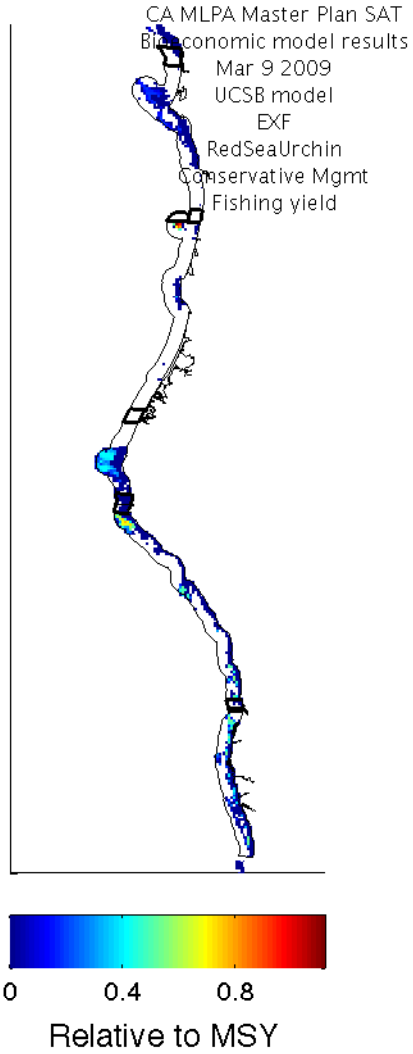

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
Conservative Mgmt
Biomass
0 0.2 0.4 0.6
Relative to unfished

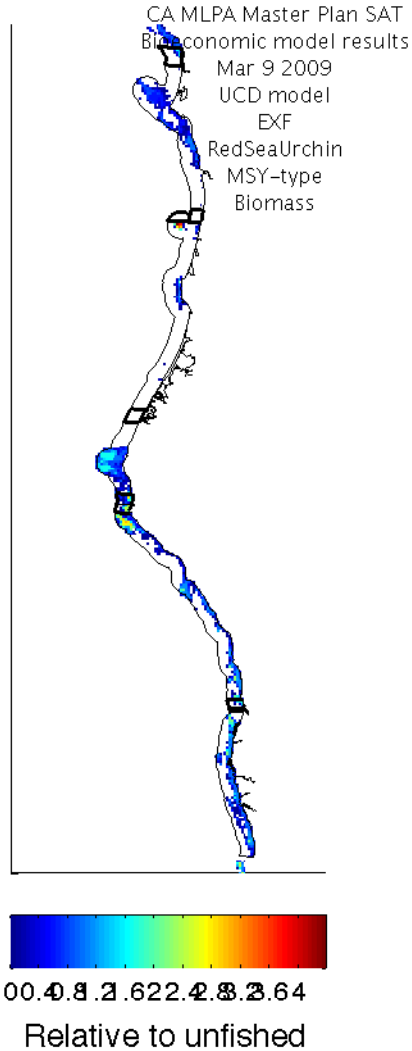

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
Conservative Mgmt
Fishing effort
0
1
2
Relative to MSY maximum effort

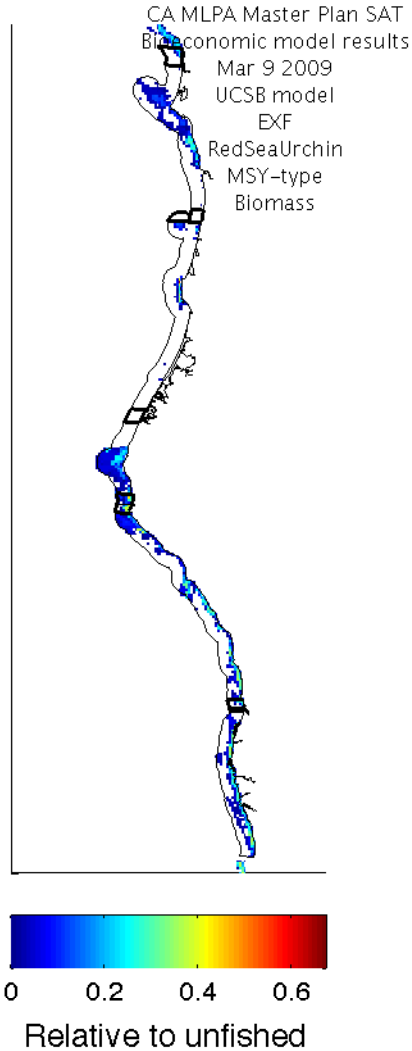

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
Conservative Mgmt
Fishing effort
0
5
10
Relative to MSY maximum effort

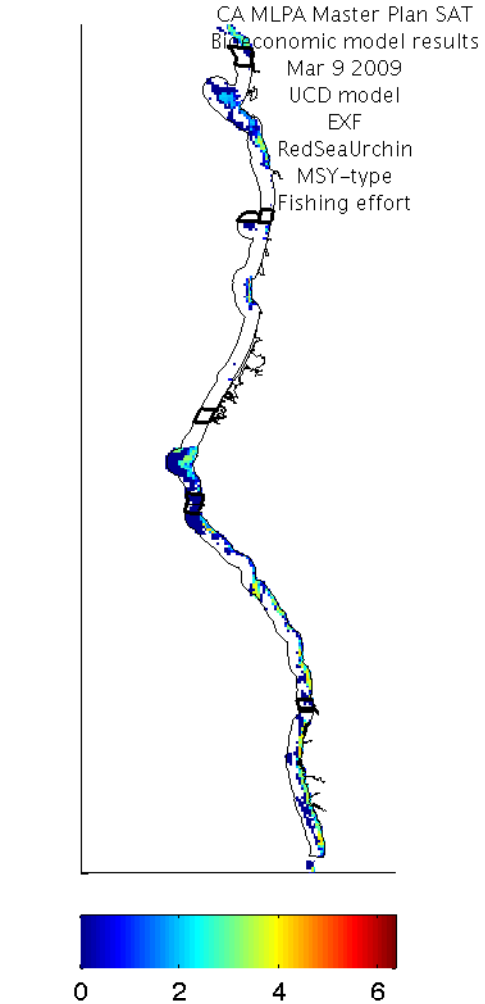

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
Conservative Mgmt
Larval Recruitment
0.1
0.2
0.3
0.4
0.5
Proportion of Maximum

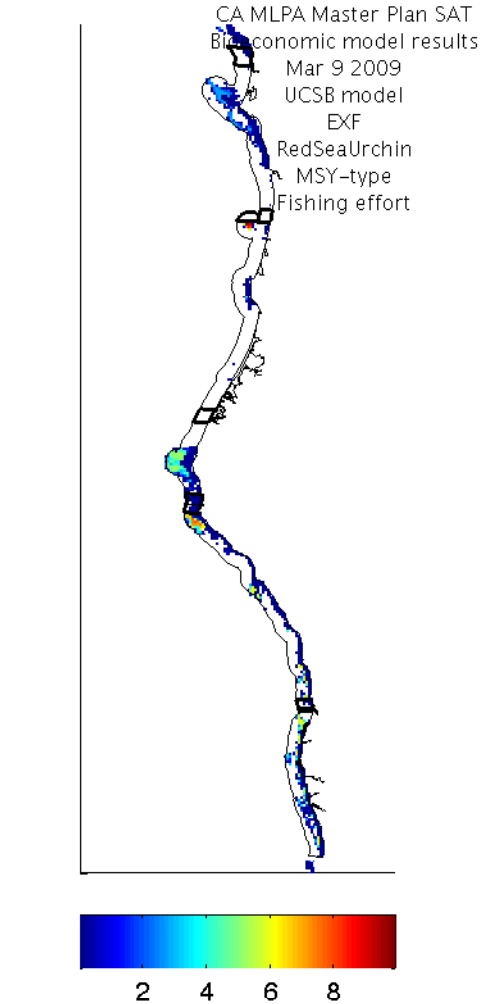

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
Conservative Mgmt
Fishing yield
Relative to MSY

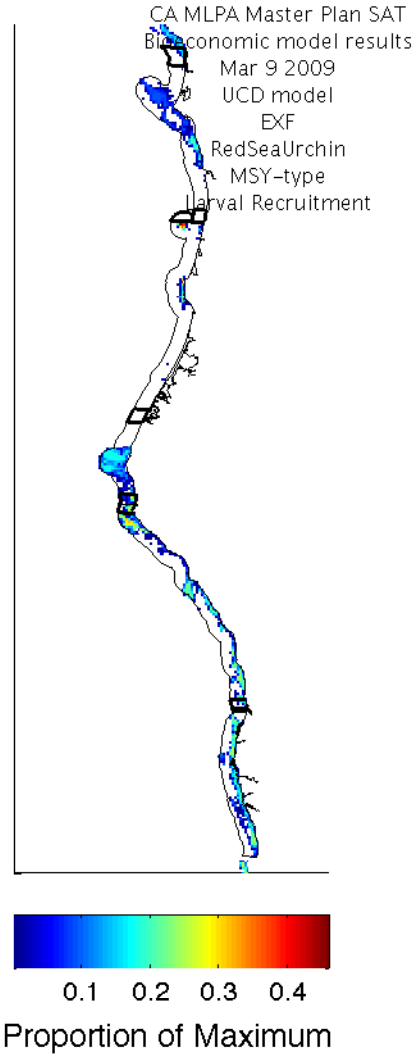

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
Conservative Mgmt
Fishing yield
0
0.4
0.8
Relative to MSY

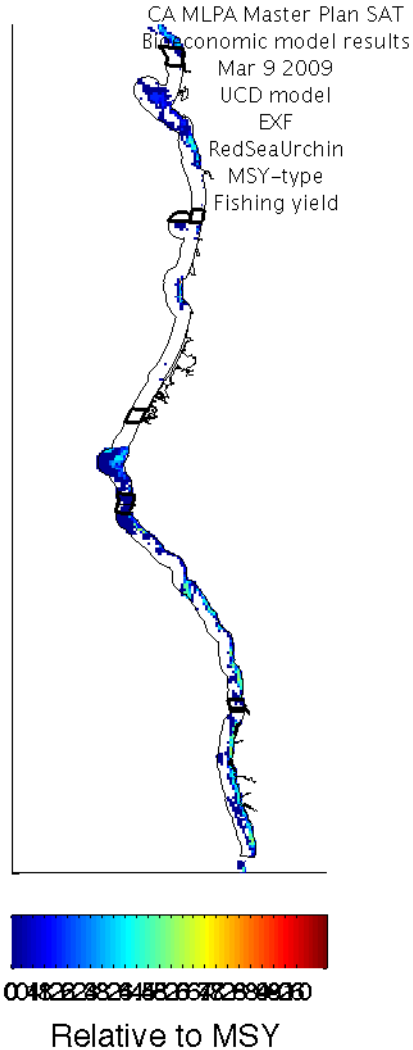

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
MSY-type
Biomass
0 0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4
Relative to unfished

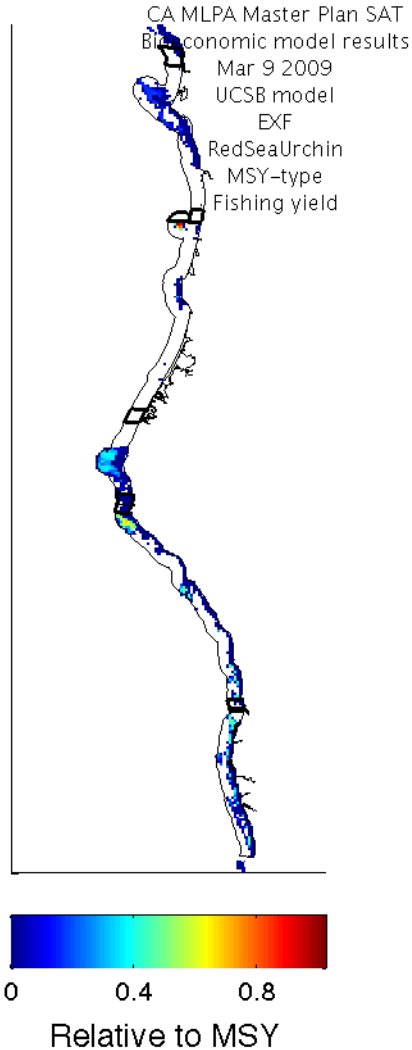

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
MSY-type
Biomass
0
0.2
0.4
0.6
Relative to unfished

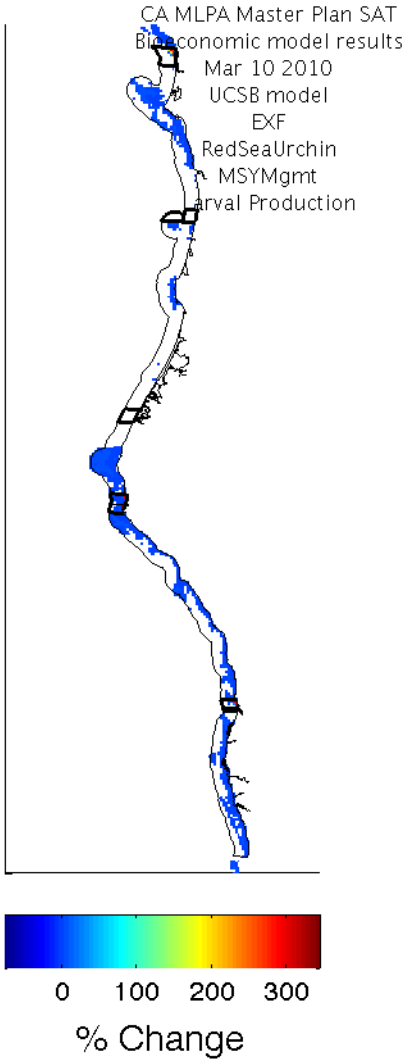

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
MSY-type
Fishing effort
0
2
4
6
Relative to MSY maximum effort

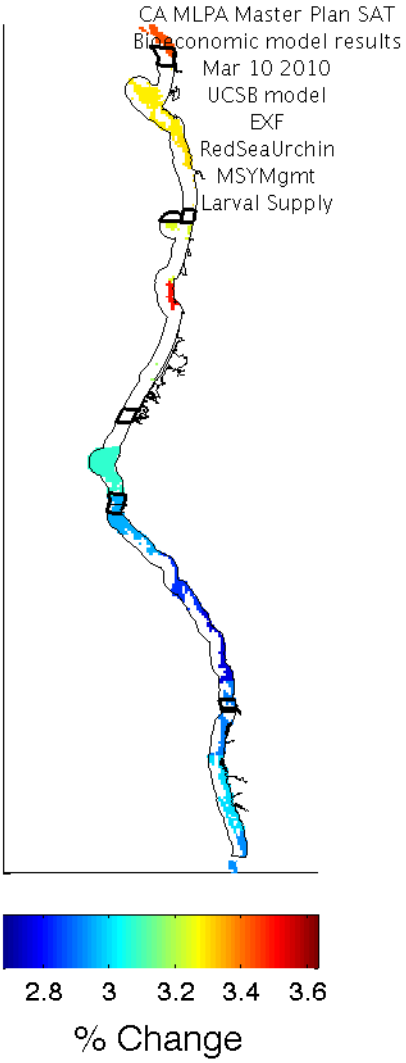

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
MSY-type
Fishing effort
2
4
6
8
Relative to MSY maximum effort

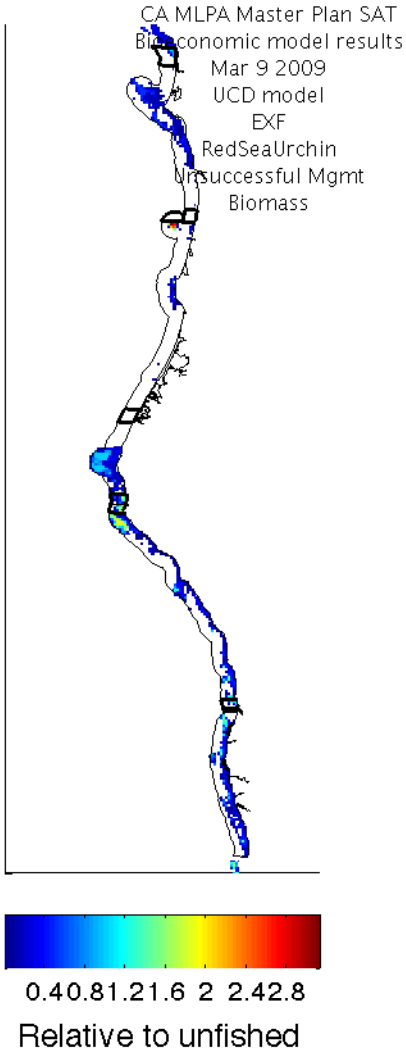

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
MSY-type
larval Recruitment
0.1
0.2
0.3
0.4
Proportion of Maximum

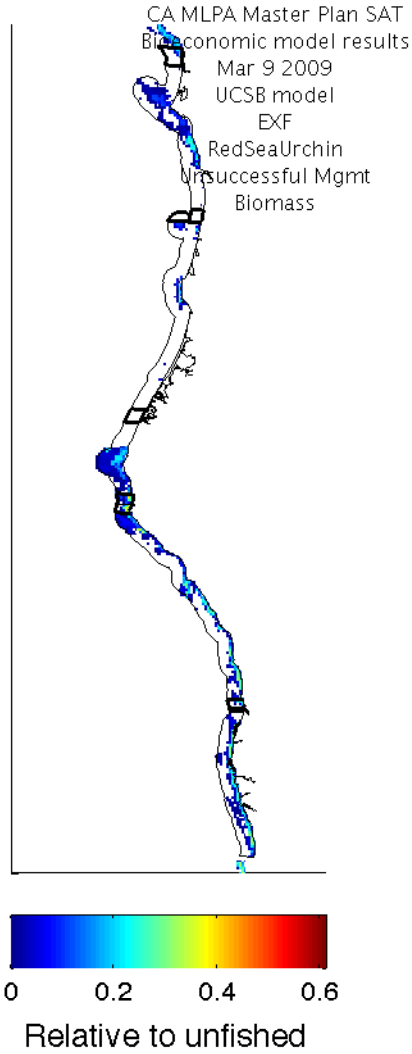

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
MSY-type
Fishing yield
Relative to MSY

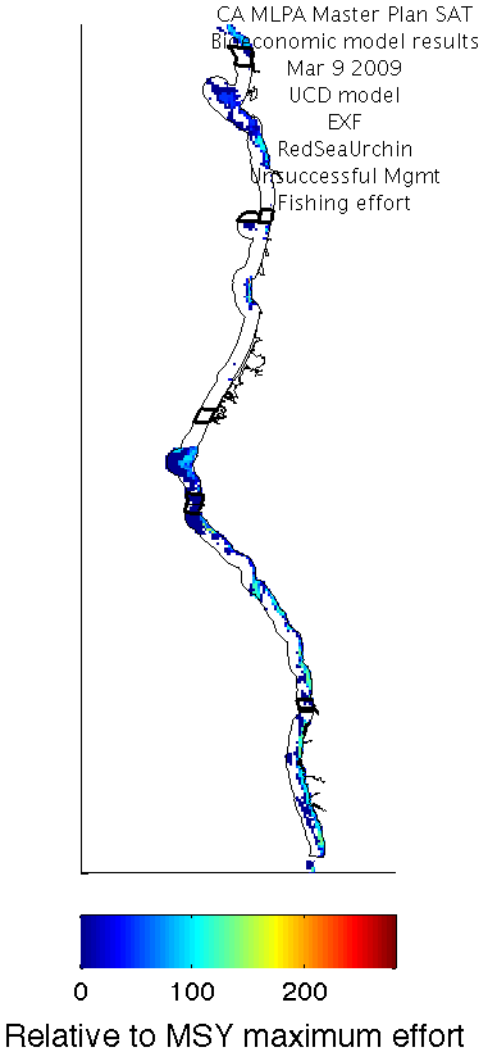

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
MSY-type
Fishing yield
0
0.4
0.8
Relative to MSY

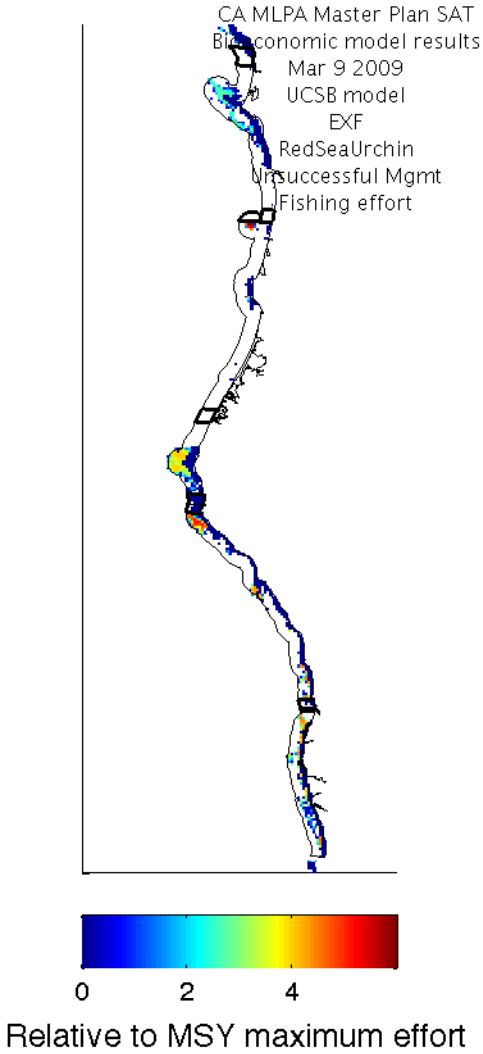

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXF
RedSeaUrchin
MSYMgmt
arval Production
0
100
200
300
% Change

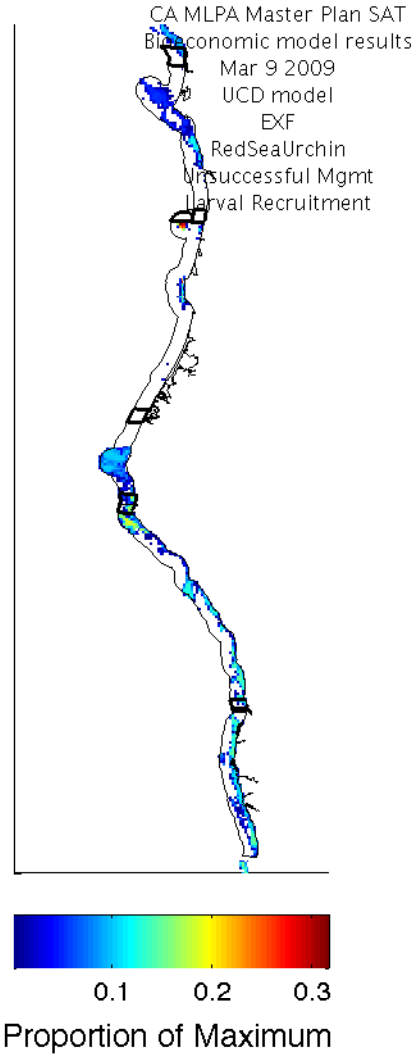

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXF
RedSeaUrchin
MSYMgmt
Larval Supply
2.8
3
3.2
3.4
3.6
% Change

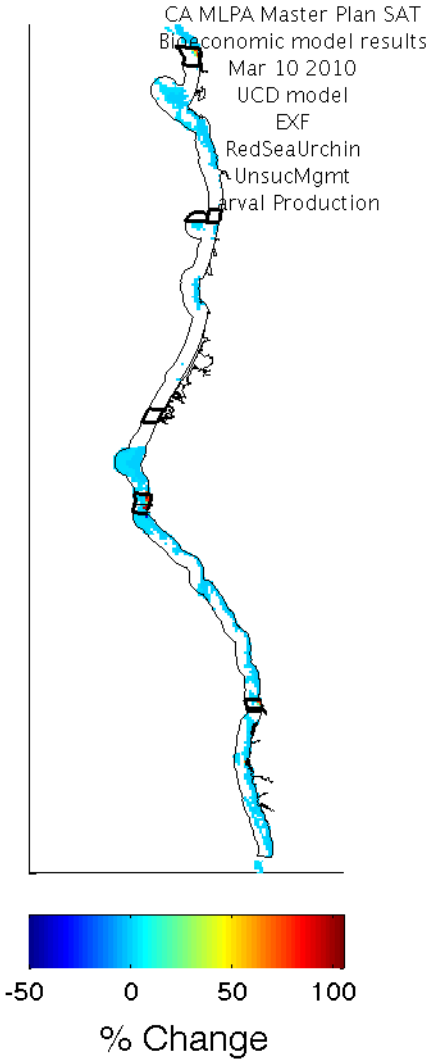

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
Unsuccessful Mgmt
Biomass
0.4 0.8 1.2 1.6 2 2.4 2.8
Relative to unfished

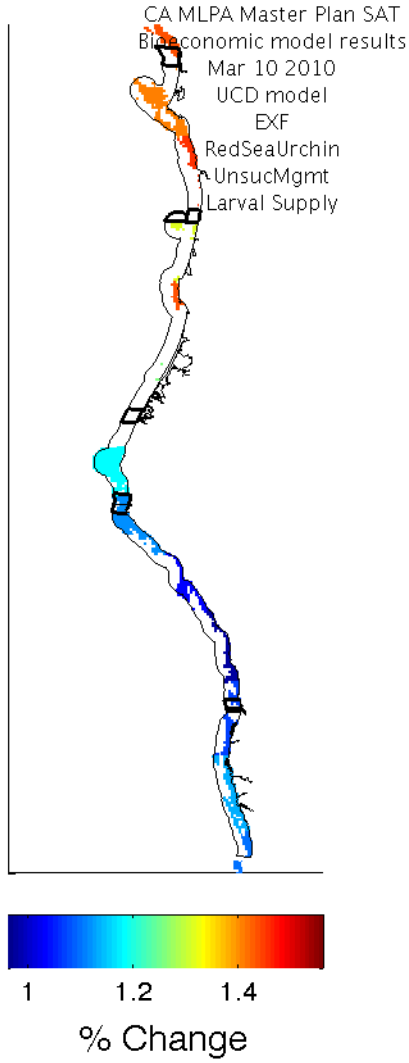

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
Unsuccessful Mgmt
Biomass
0 0.2 0.4 0.6
Relative to unfished


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
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
EXF
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
EXF
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
EXF
RedSeaUrchin
UnsucMgmt
arval Production
-50
0
50
100
% Change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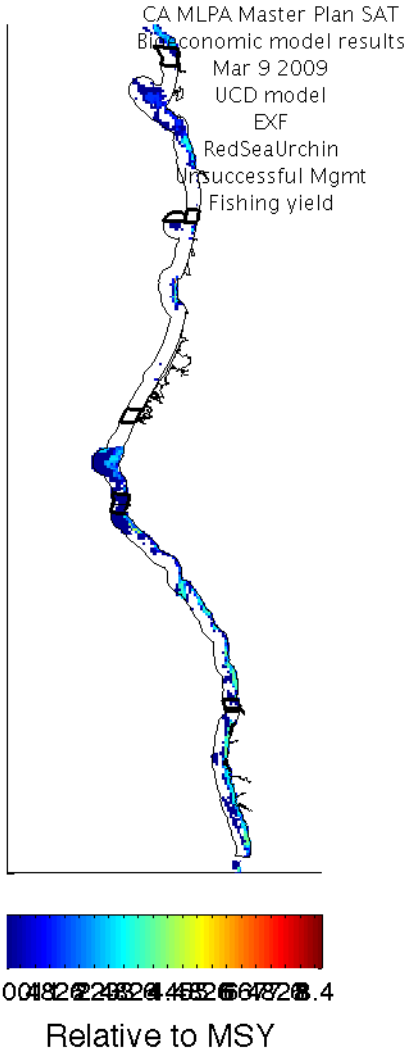
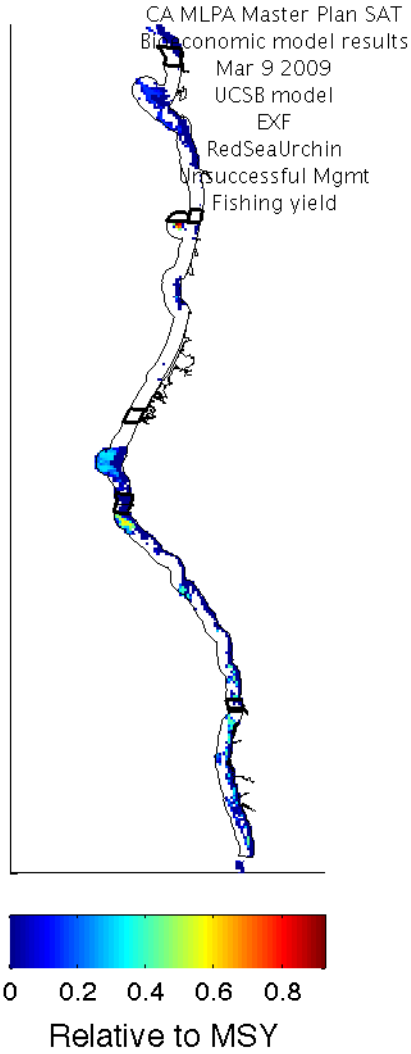
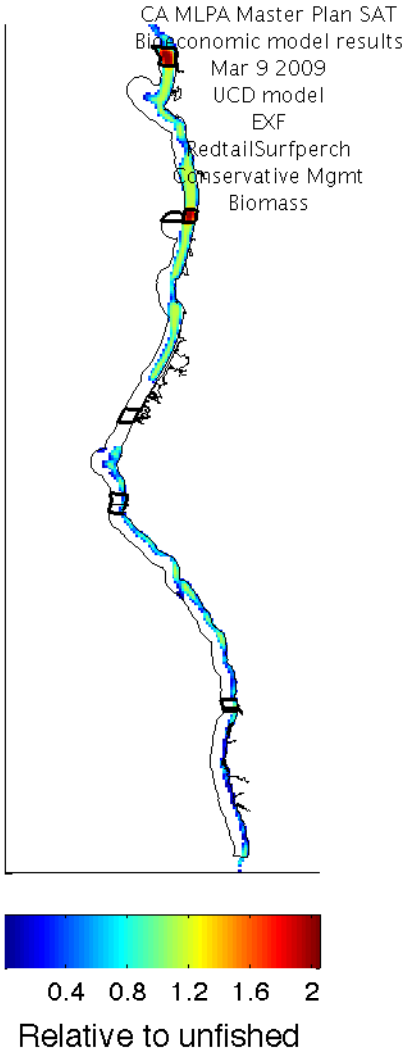
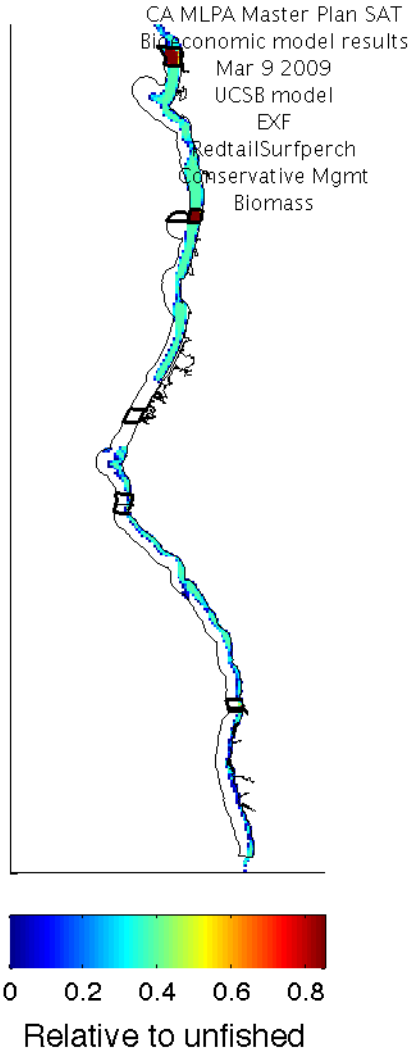
Bioeconomic model results
Mar 10 2010
UCD model
EXF
RedSeaUrchin
UnsucMgmt
Larval Supply
1
1.2
1.4
% Change

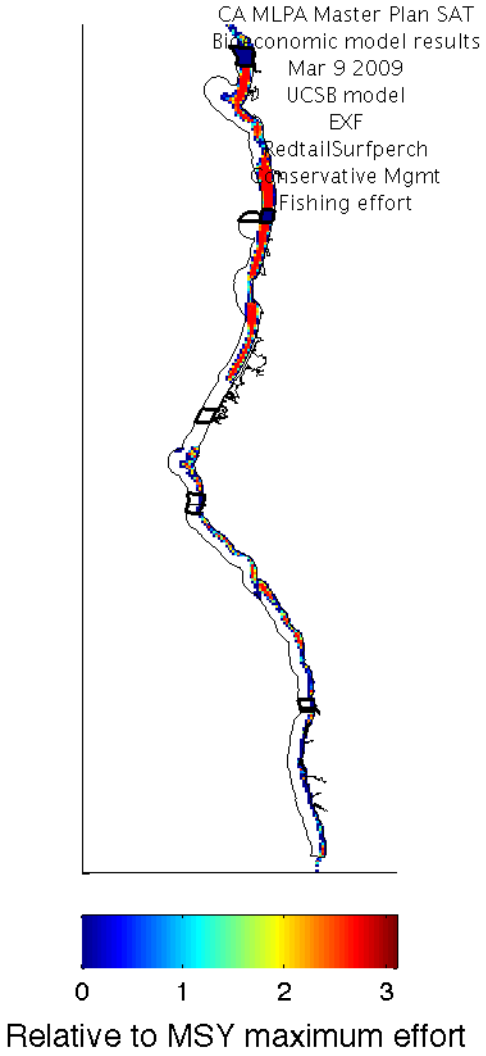

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
Relative to MSY

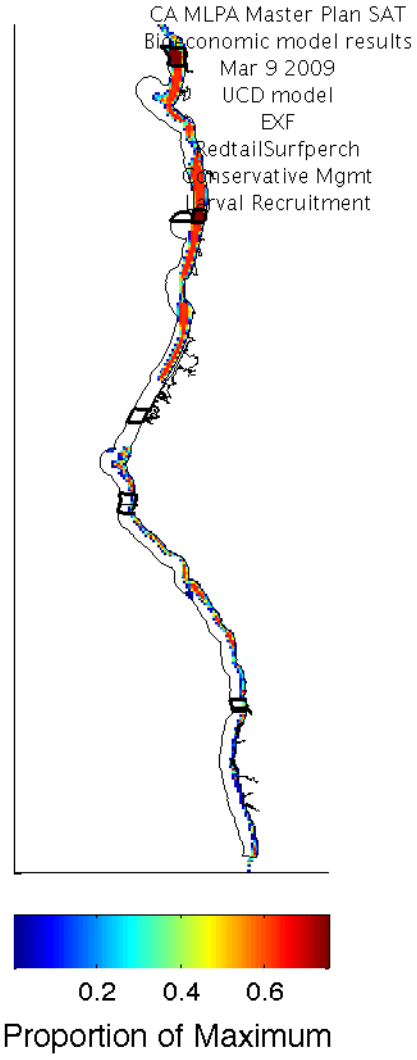

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedSeaUrchin
Unsuccessful Mgmt
Fishing yield
0
0.2
0.4
0.6
0.8
Relative to MSY

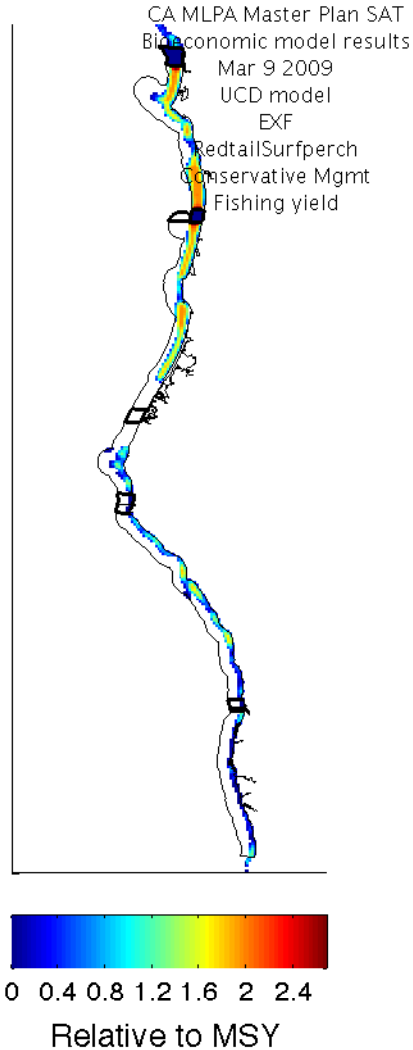

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
Conservative Mgmt
Biomass
0.4
0.8
1.2
1.6
2
Relative to unfished

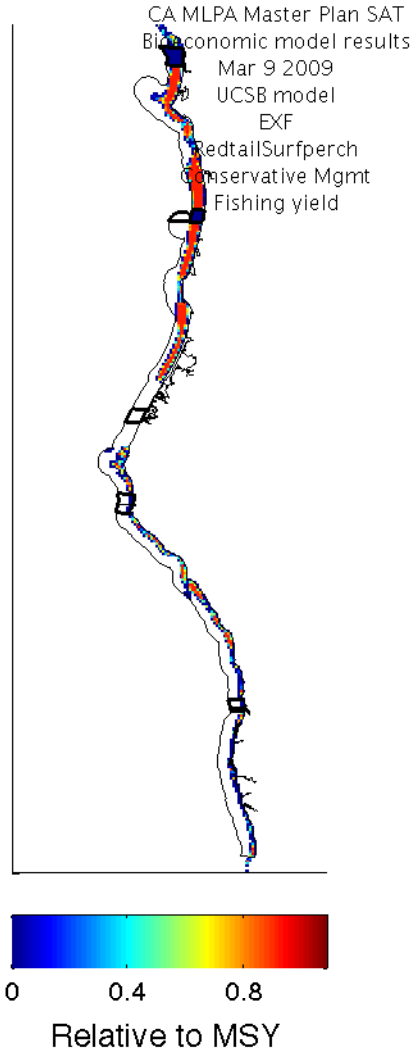

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedtailSurfperch
Conservative Mgmt
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

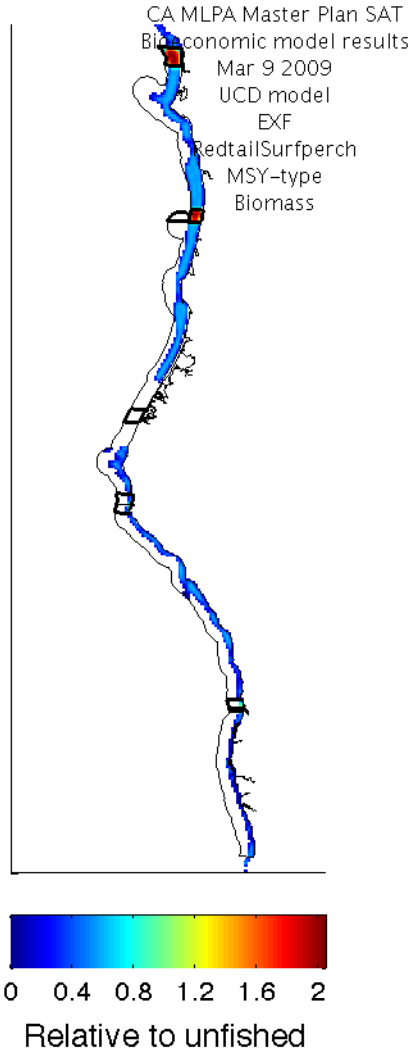
CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
Conservative Mgmt
Fishing effort
0
0.2
0.4
0.6
Relative to MSY maximum effort

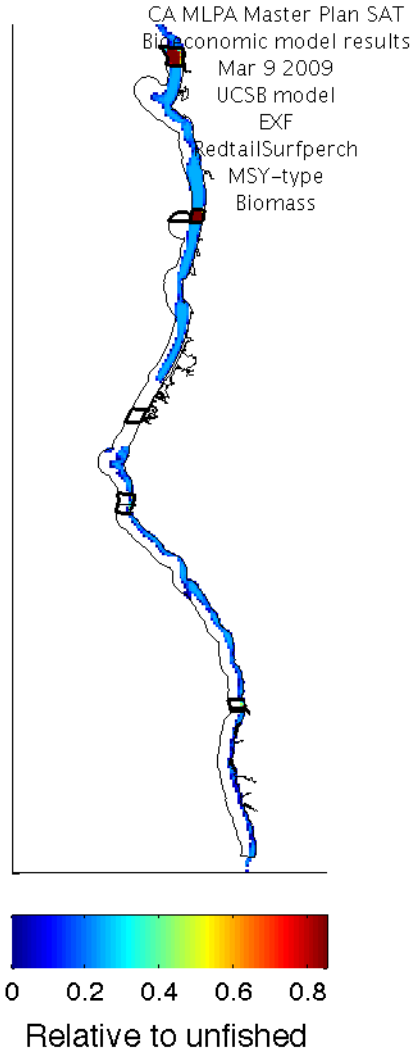

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedtailSurfperch
Conservative Mgmt
Fishing effort
0
1
2
3
Relative to MSY maximum effort


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

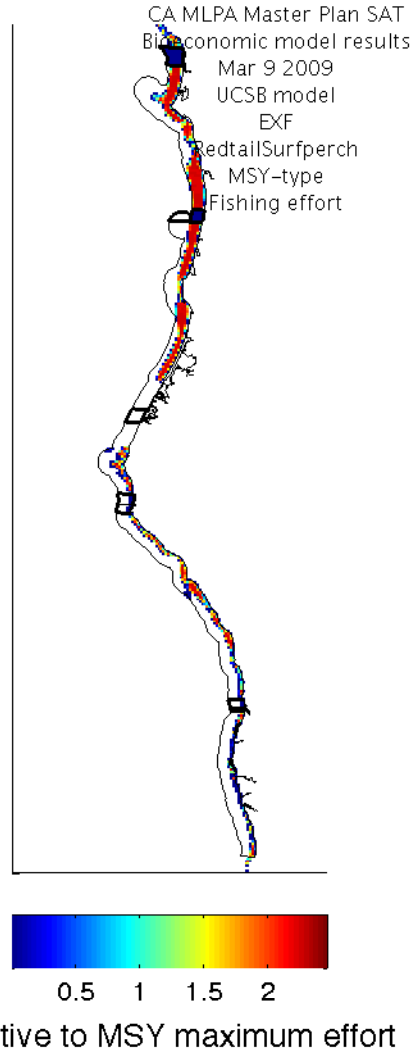

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
Conservative Mgmt
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.4
Relative to MSY

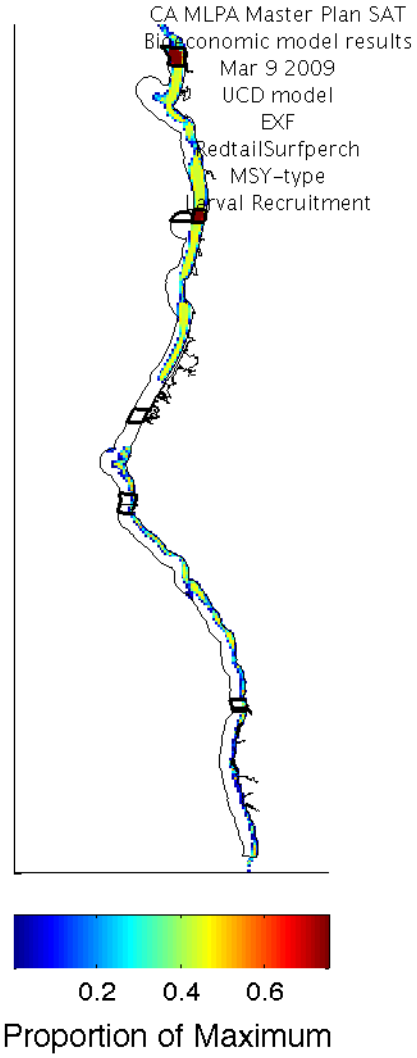

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedtailSurfperch
Conservative Mgmt
Fishing yield
0 0.4 0.8
Relative to MSY

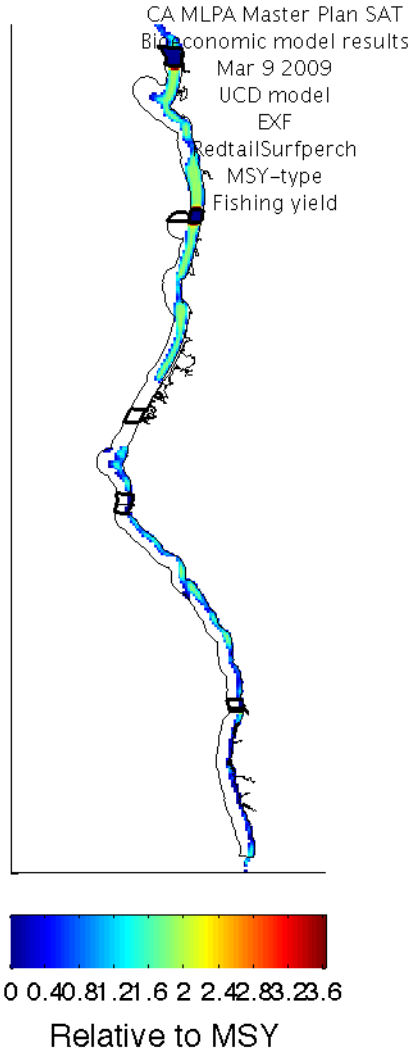

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
MSY-type
Biomass
0
0.4
0.8
1.2
1.6
2
Relative to unfished

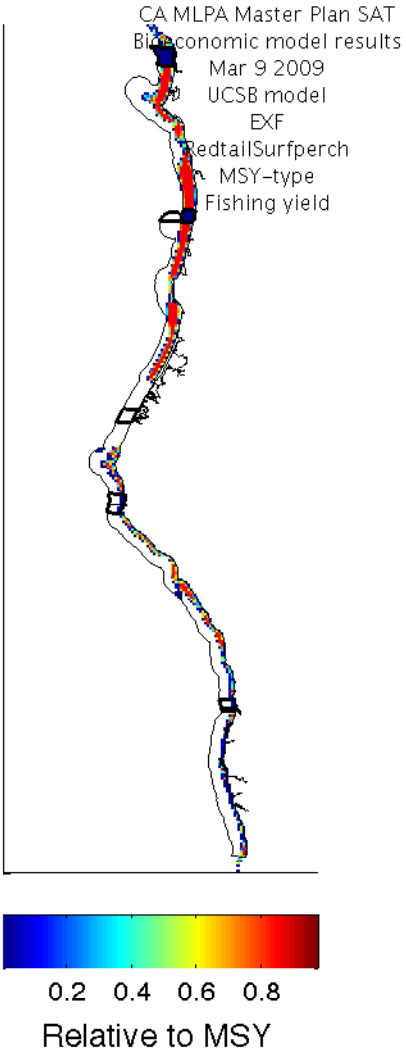

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedtailSurfperch
MSY-type
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

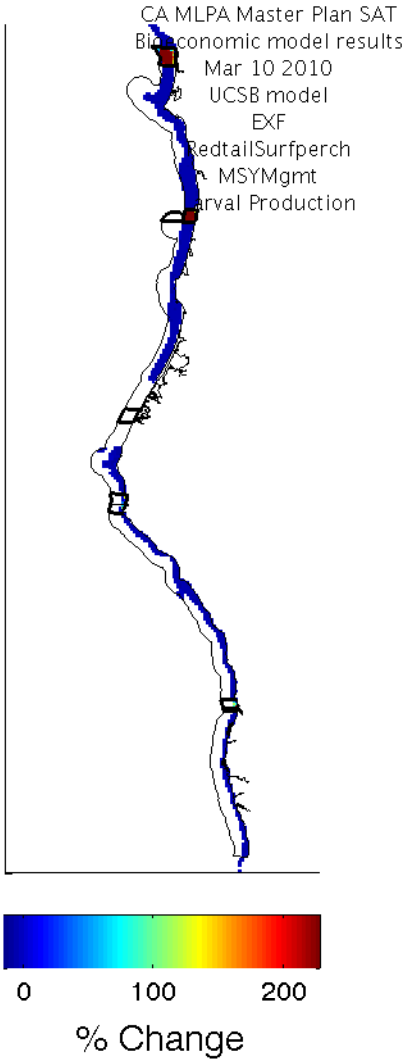
CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
MSY-type
Fishing effort
0.5
1
1.5
2
Relative to MSY maximum effort

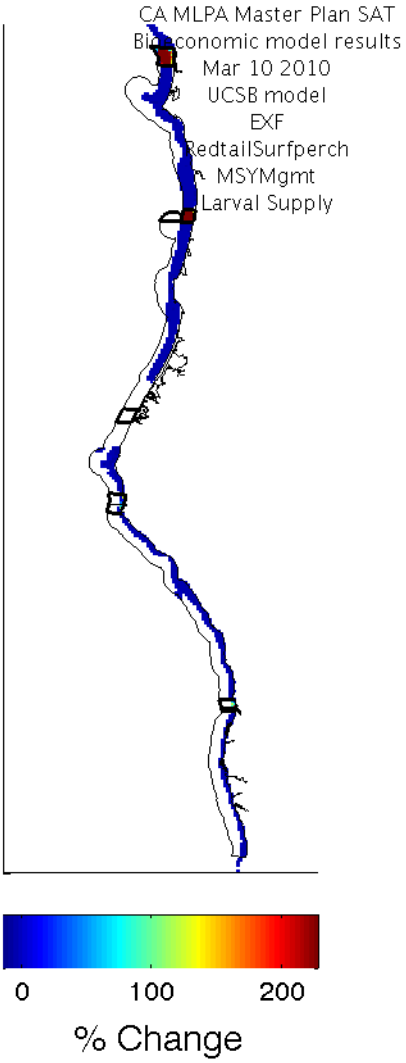

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedtailSurfperch
MSY-type
Fishing effort
0.5
1
1.5
2
Relative to MSY maximum effort

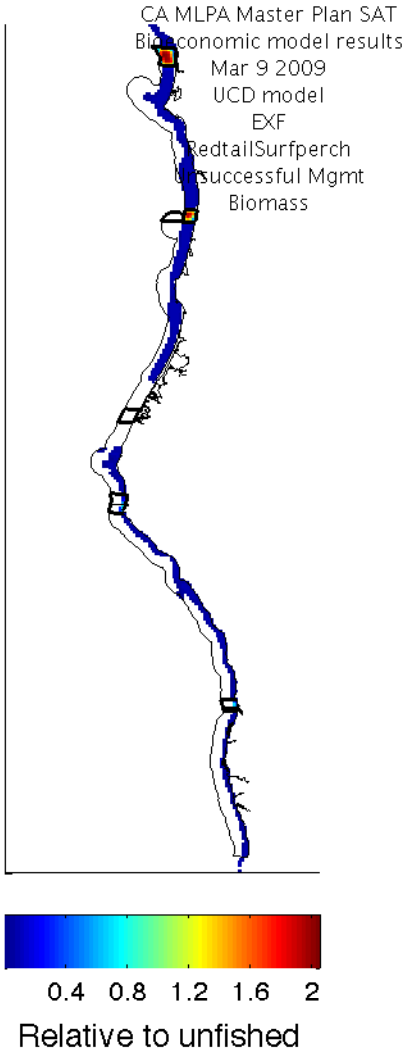

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
MSY-type
Larval Recruitment
0.2
0.4
0.6
Proportion of Maximum

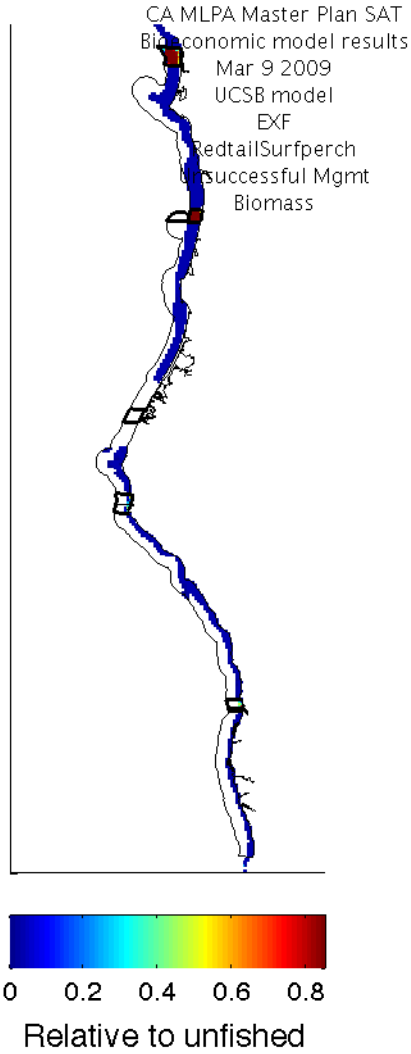

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
MSY-type
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6
Relative to MSY

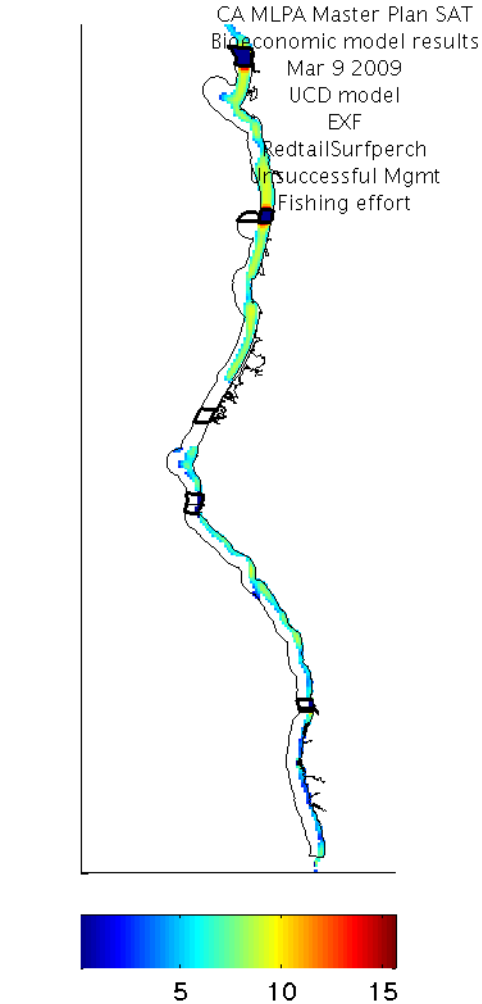

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedtailSurfperch
MSY-type
Fishing yield
0.2 0.4 0.6 0.8
Relative to MSY


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

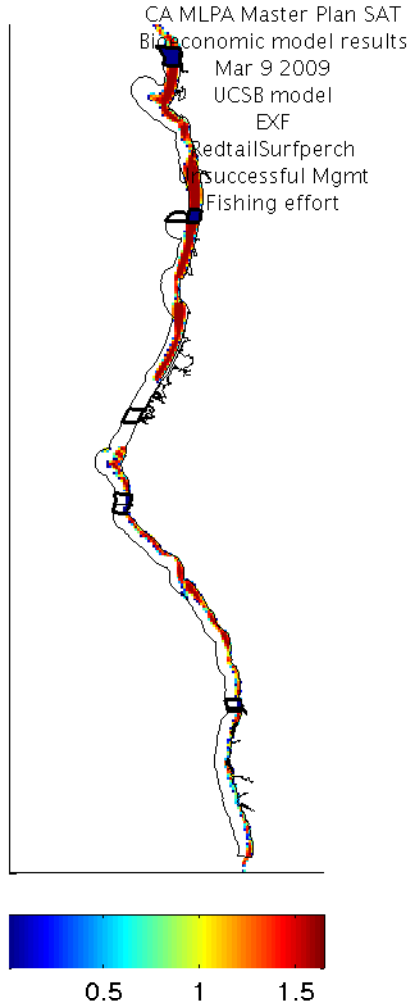

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 10 2010
UCSB model
EXF
RedtailSurfperch
MSYMgmt
Larval Supply
0
100
200
% Change


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

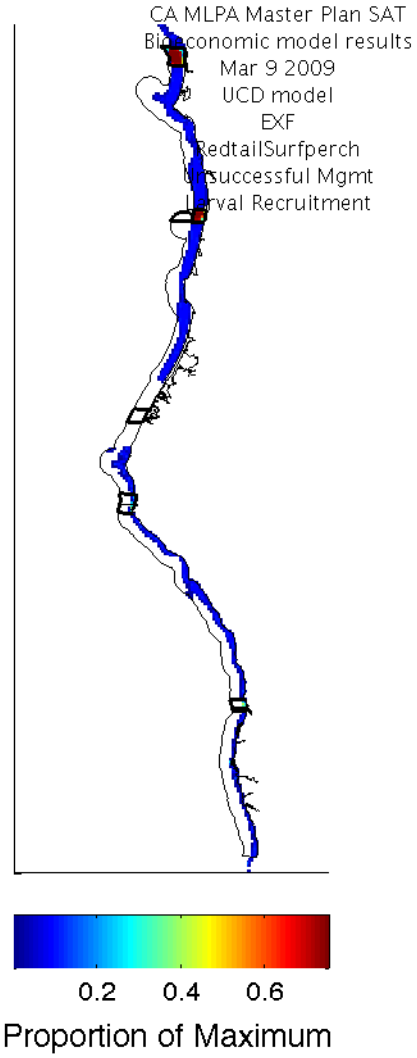

CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCSB model
EXF
RedtailSurfperch
Unsuccessful Mgmt
Biomass
0
0.2
0.4
0.6
0.8
Relative to unfished

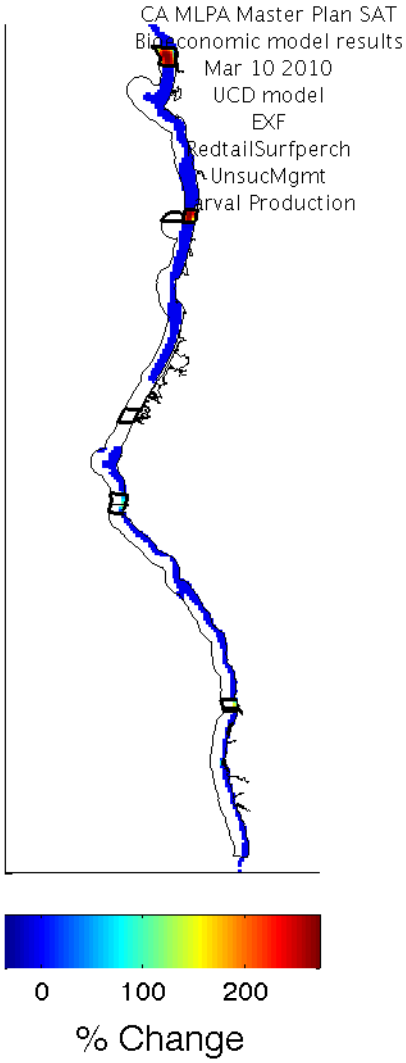


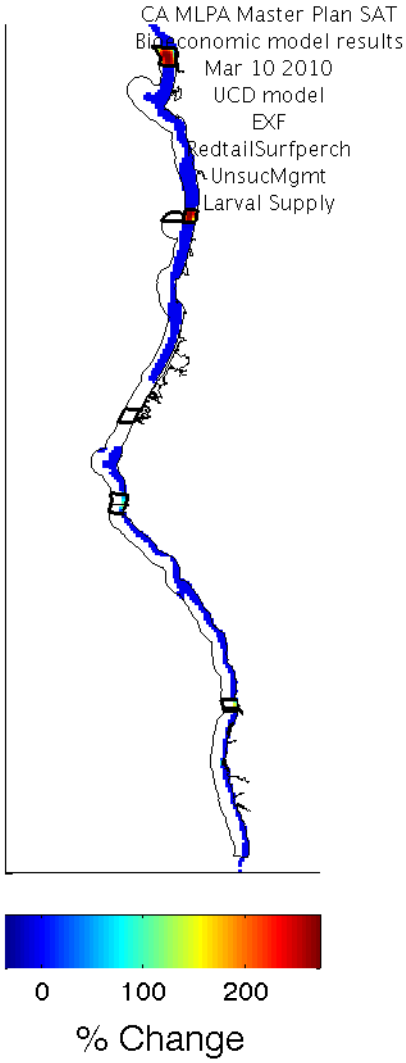
Relative to MSY maximum effort

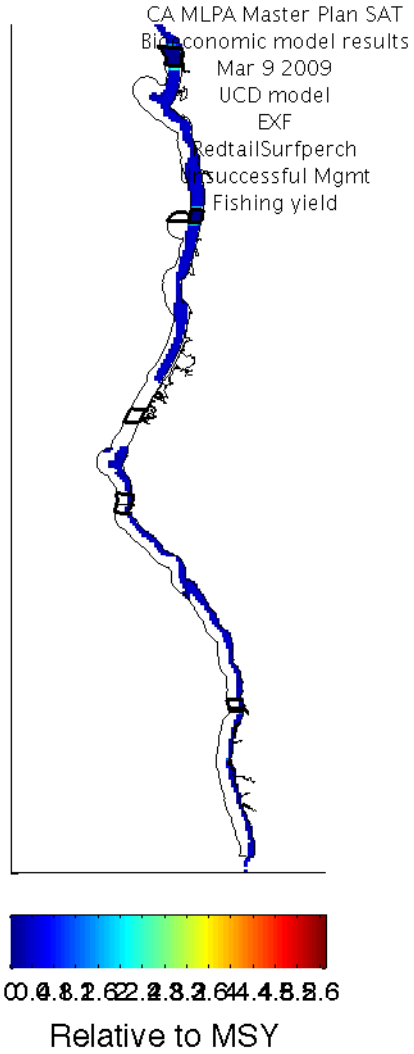


Relative to MSY maximum effort


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
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
EXF
RedtailSurfperch
UnsucMgmt
Larval Production
0
100
200
% Change


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


CA MLPA Master Plan SAT
Bioeconomic model results
Mar 9 2009
UCD model
EXF
RedtailSurfperch
Unsuccessful Mgmt
Fishing yield
0 0.4 0.8 1.2 1.6 2 2.2 2.4 2.8 3.2 3.6 4 4.4 4.8 5.2 5.6
Relative to MSY

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