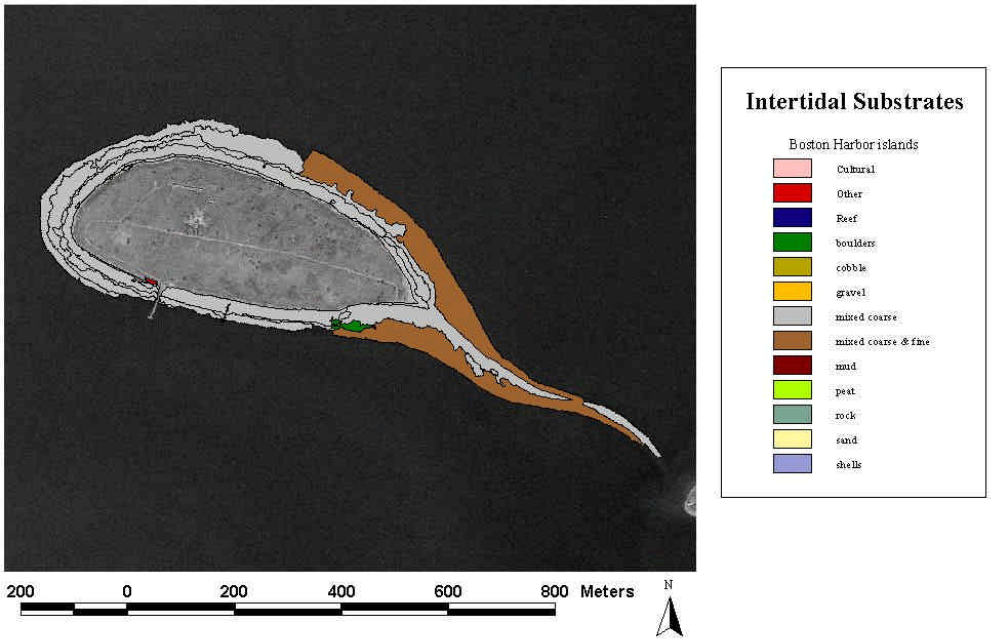
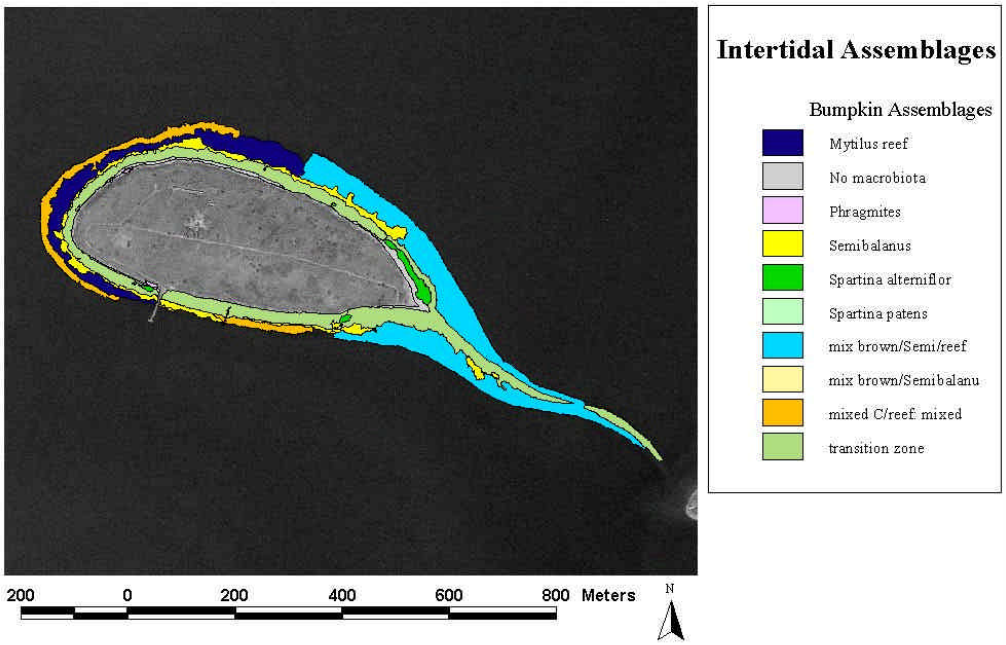
APPENDIX 1: MAPS OF SUBSTRATA AND BIOTIC ASSEMBLAGES FOR THE BOSTON HARBOR ISLANDS SURVEY IN 2001 AND 2002

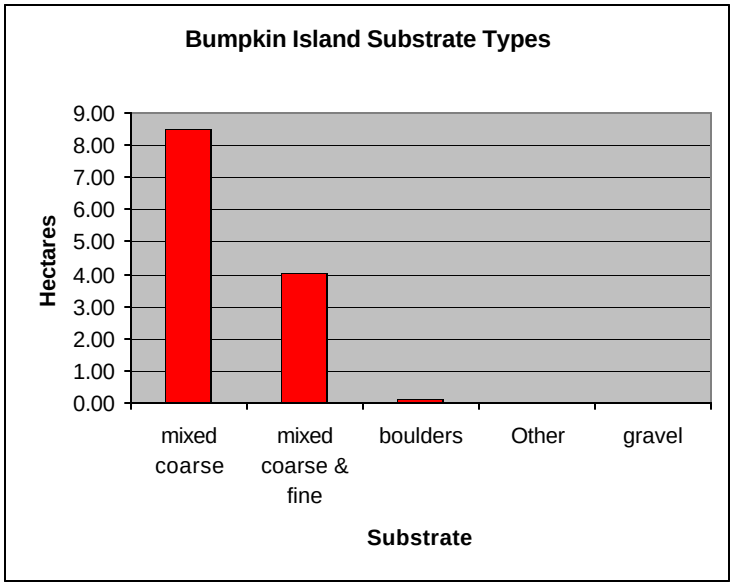
Maps and Charts for Individual Boston Harbor Islands. Islands listed alphabetically.

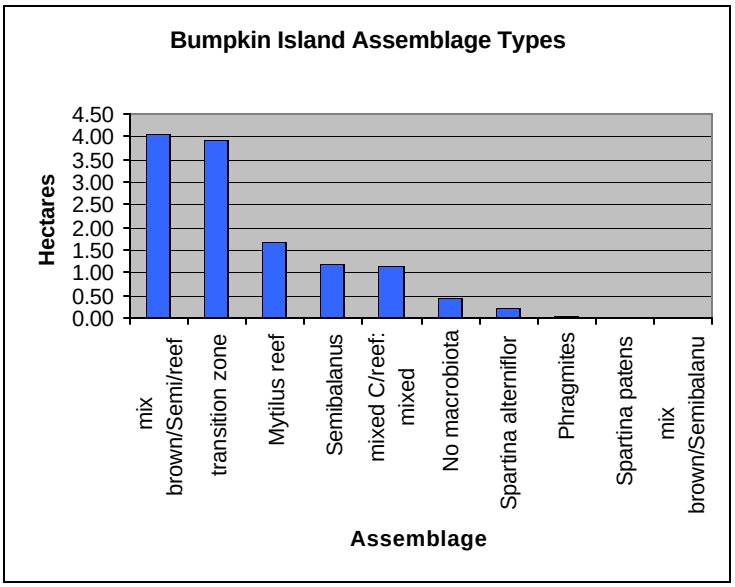
Bumpkin Island Intertidal Substrate



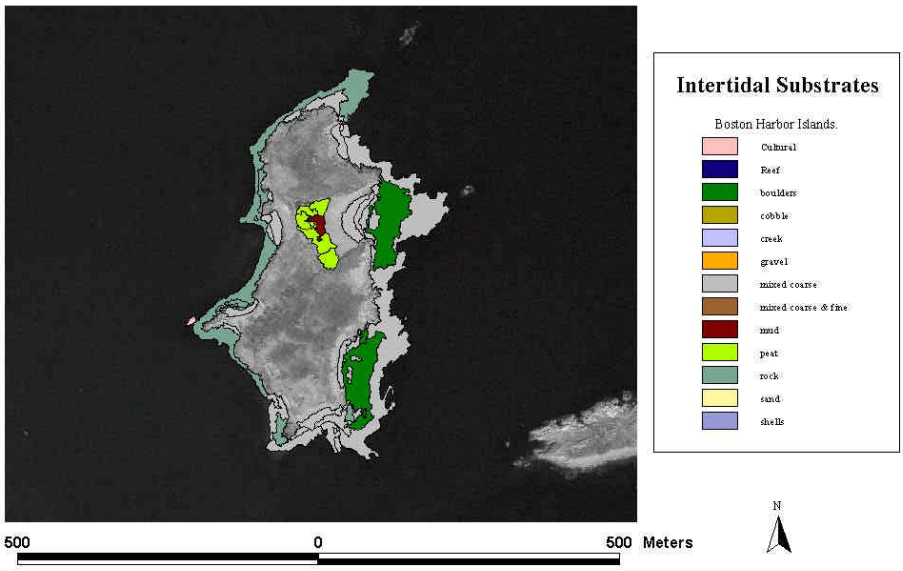
Bumpkin Island Intertidal Assemblages



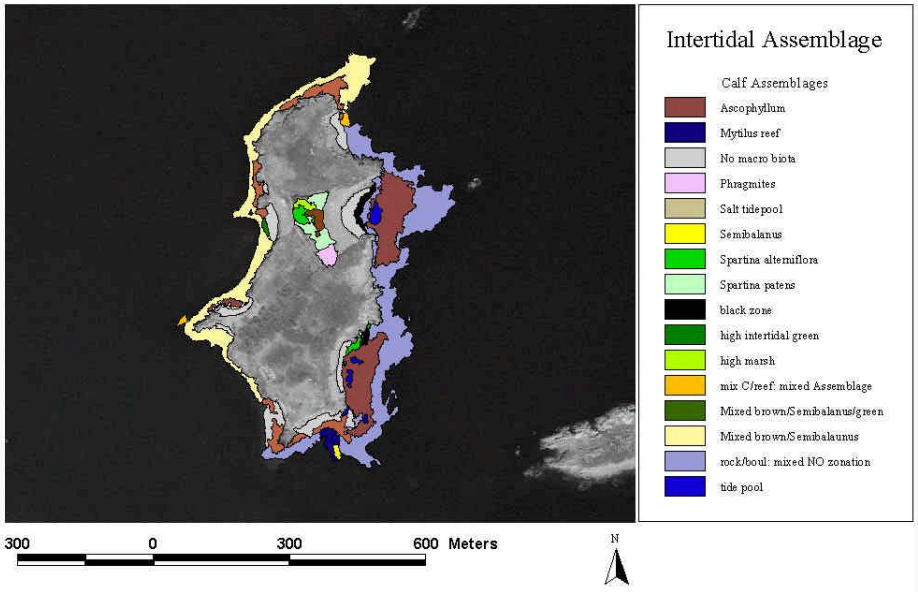

Bumpkin Island Substrate Types
Hectares
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
mixed coarse
mixed coarse & fine
boulders
Other
gravel
Substrate

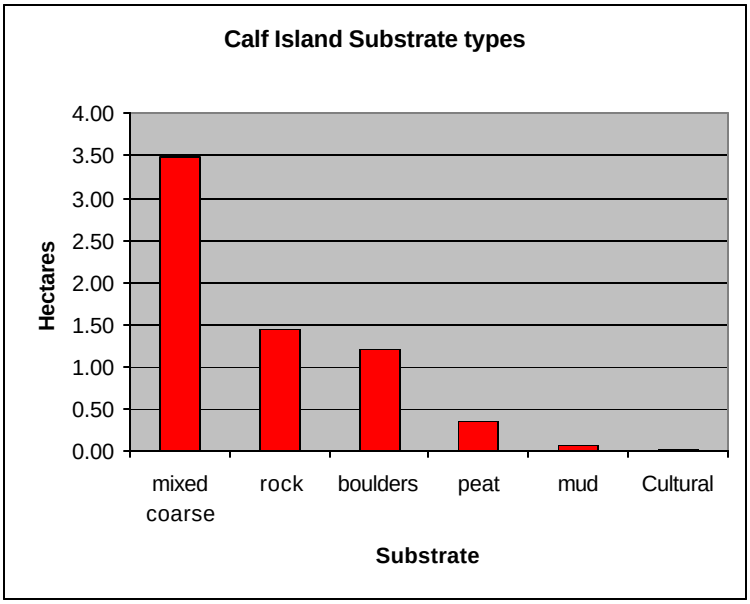

Bumpkin Island Assemblage Types
Hectares
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
mix brown/Semi/reef
transition zone
Mytilus reef
Semibalanus
mixed C/reef: mixed
No macrobiota
Spartina alterniflor
Phragmites
Spartina patens
mix brown/Semibalanu
Assemblage

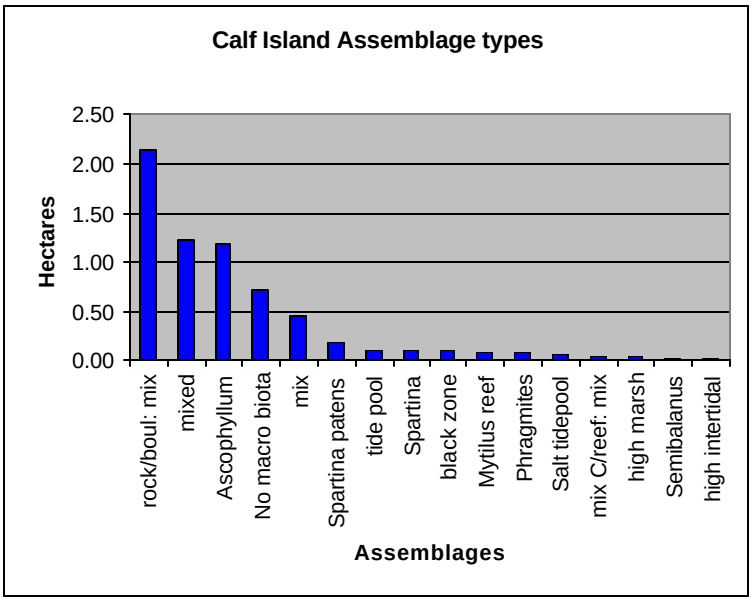
Calf Island Intertidal Substrate



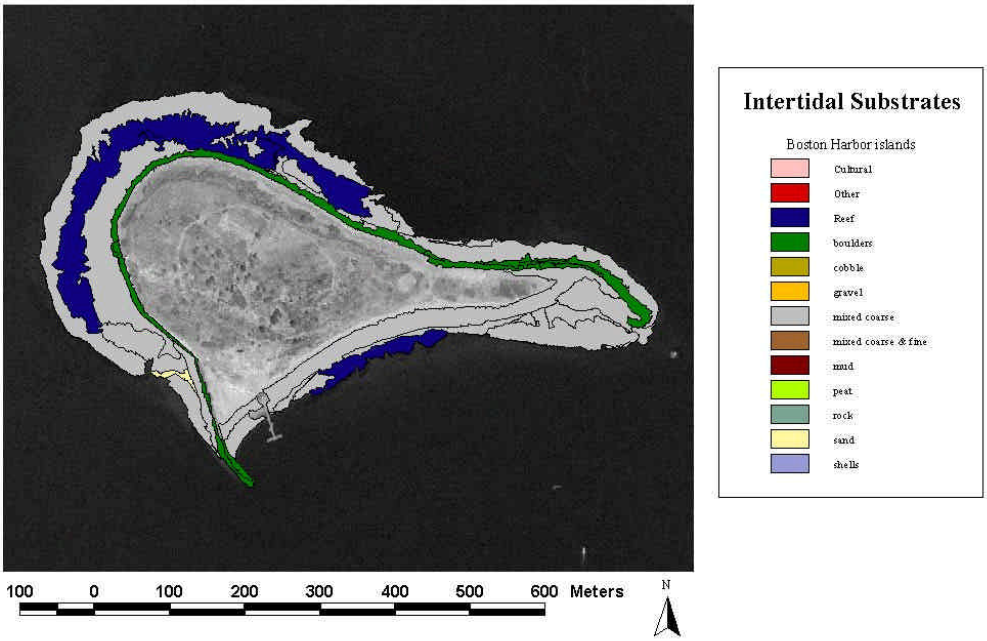
Calf Island Intertidal Assemblages



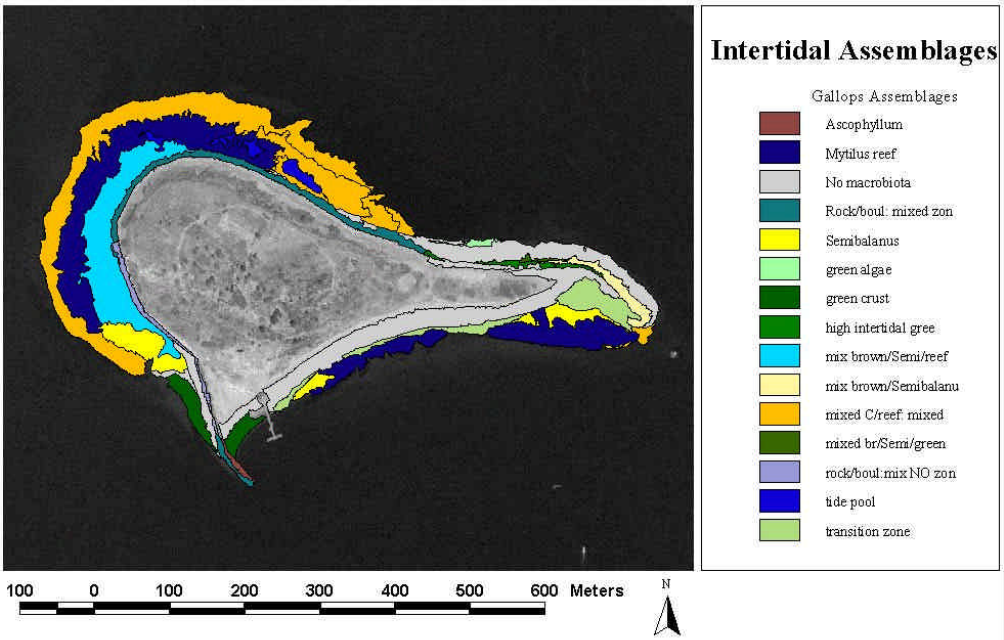

Calf Island Substrate types
Hectares
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
mixed coarse
rock
boulders
peat
mud
Cultural
Substrate

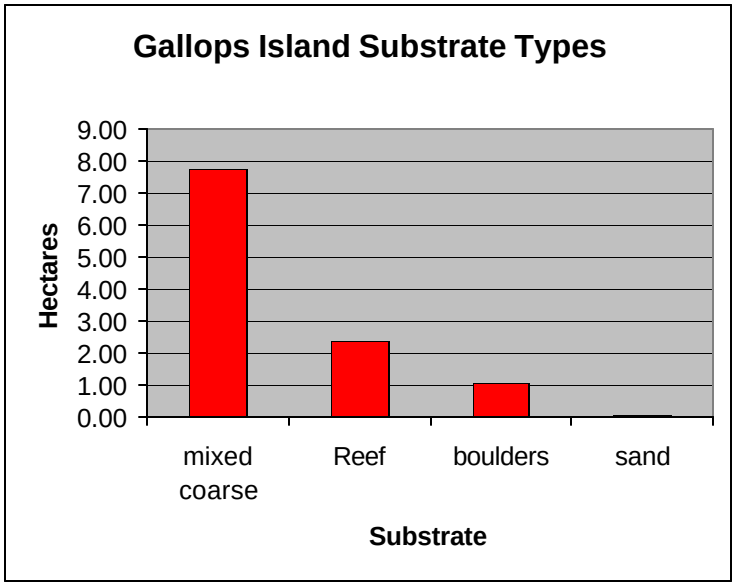

Calf Island Assemblage types
Hectares
2.50
2.00
1.50
1.00
0.50
0.00
rock/boul: mix
mixed
Ascophyllum
No macro biota
mix
Spartina patens
tide pool
Spartina
black zone
Mytilus reef
Phragmites
Salt tidepool
mix C/reef: mix
high marsh
Semibalanus
high intertidal
Assemblages

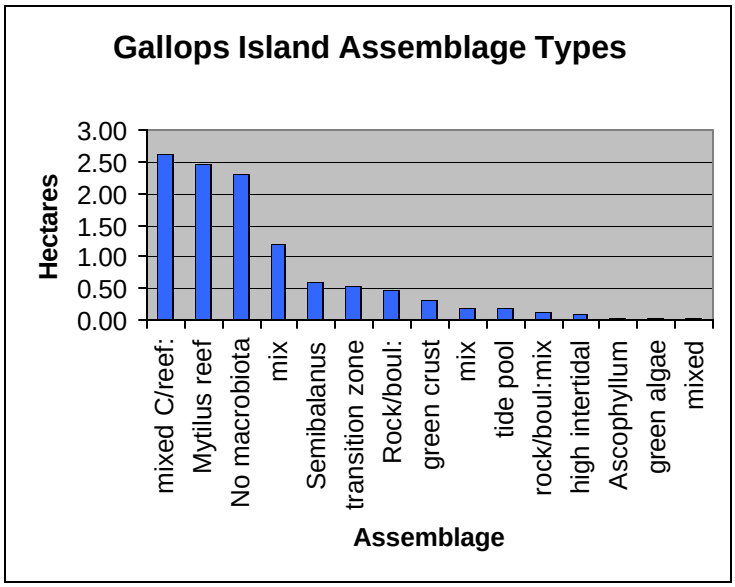
Gallops Island Intertidal Substrate



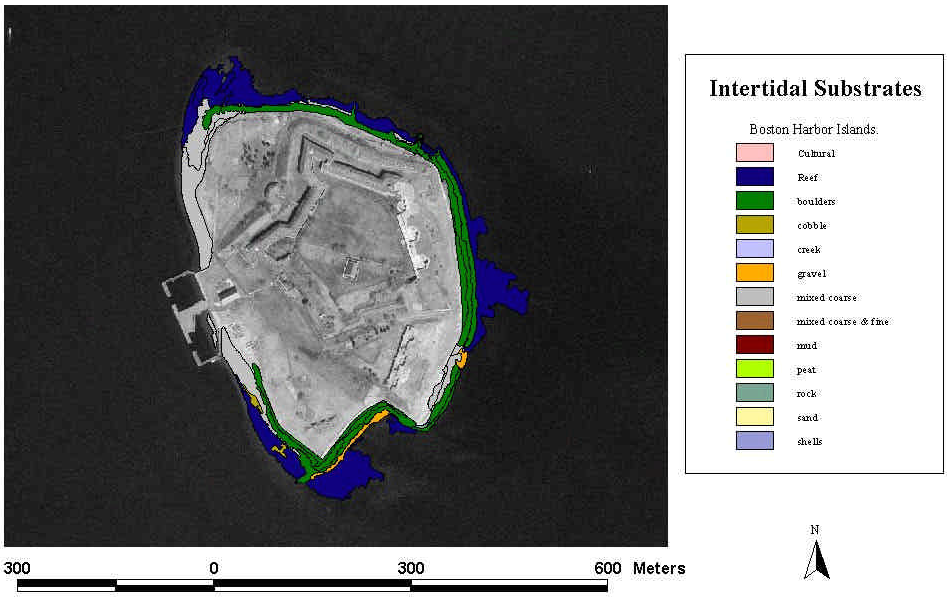
Gallops Island Intertidal Assemblages



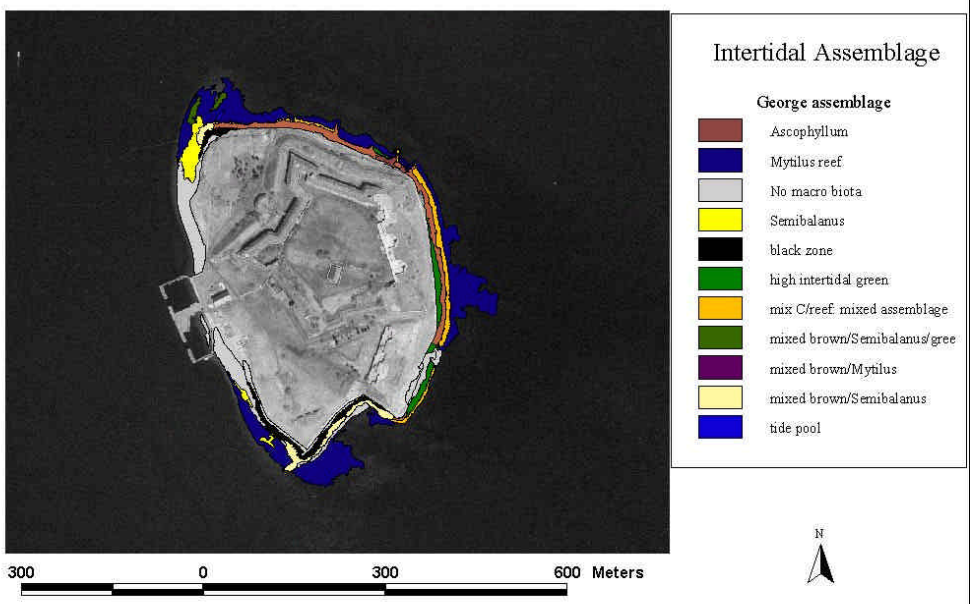

Gallops Island Substrate Types
Hectares
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
mixed coarse
Reef
boulders
sand
Substrate

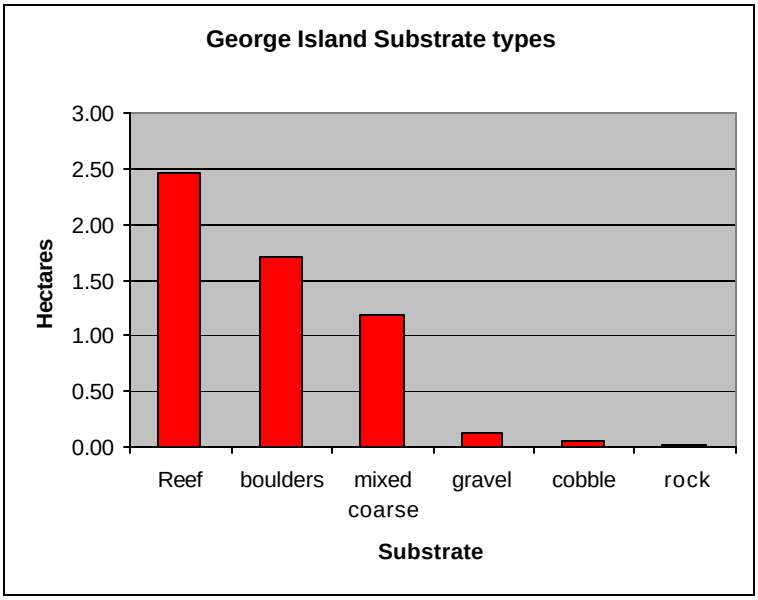

Gallops Island Assemblage Types
Hectares
3.00
2.50
2.00
1.50
1.00
0.50
0.00
mixed C/reef:
Mytilus reef
No macrobiota
mix
Semibalanus
transition zone
Rock/boul:
green crust
mix
tide pool
rock/boul:mix
high intertidal
Ascophyllum
green algae
mixed
Assemblage

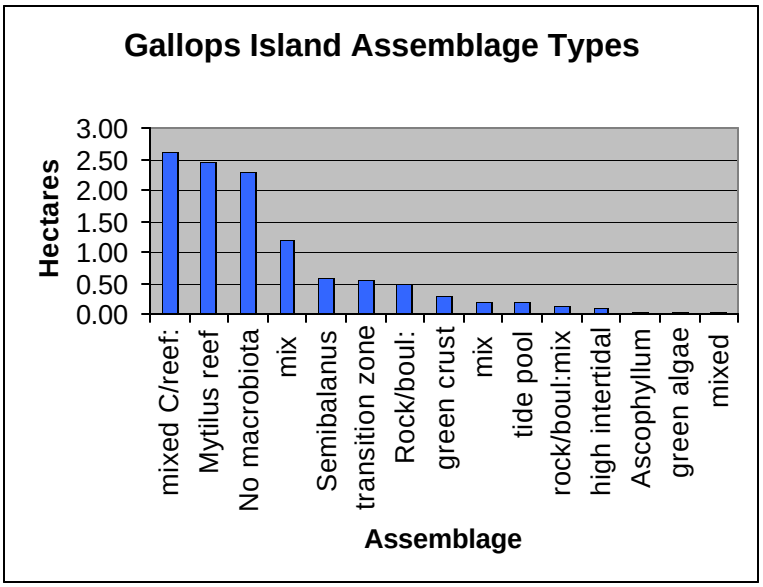
George Island Intertidal Substrate



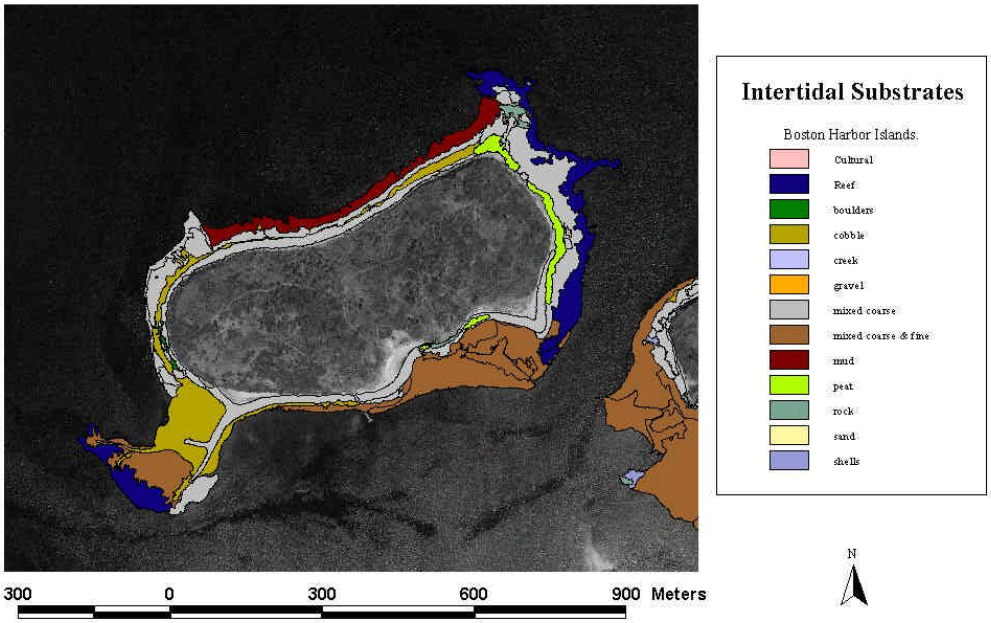
George Island Intertidal Assemblages



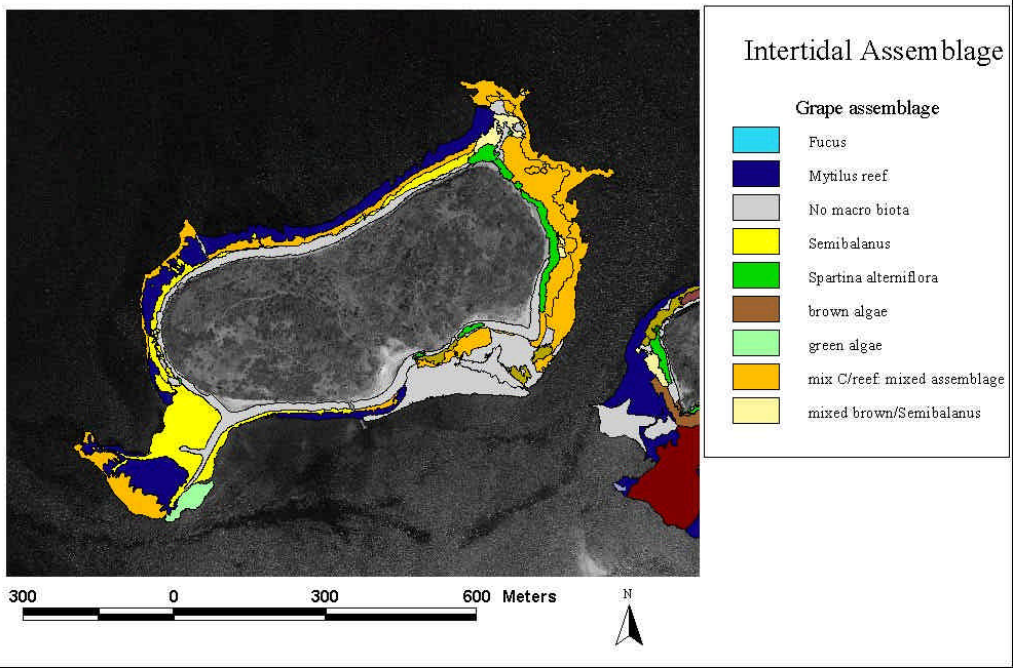

George Island Substrate types
Hectares
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Reef
boulders
mixed coarse
gravel
cobble
rock
Substrate

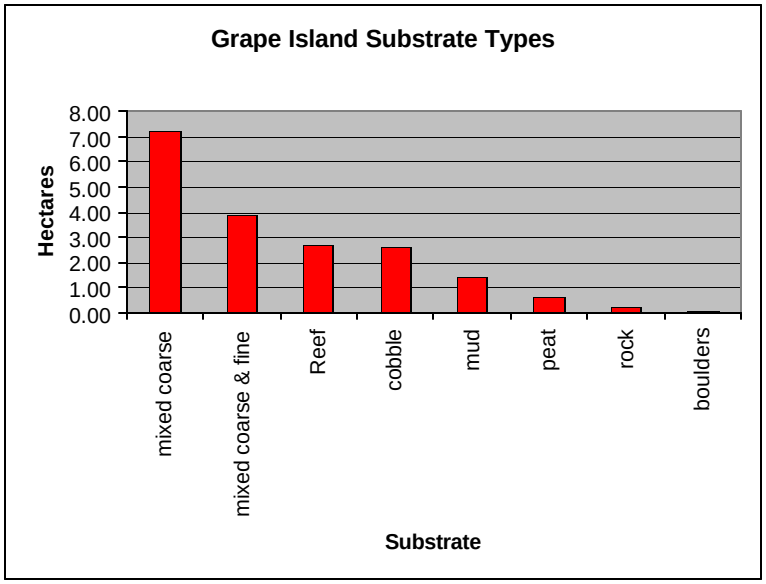

Gallops Island Assemblage Types
Hectares
3.00
2.50
2.00
1.50
1.00
0.50
0.00
mixed C/reef:
Mytilus reef
No macrobiota
mix
Semibalanus
transition zone
Rock/boul:
green crust
mix
tide pool
rock/boul:mix
high intertidal
Ascophyllum
green algae
mixed
Assemblage

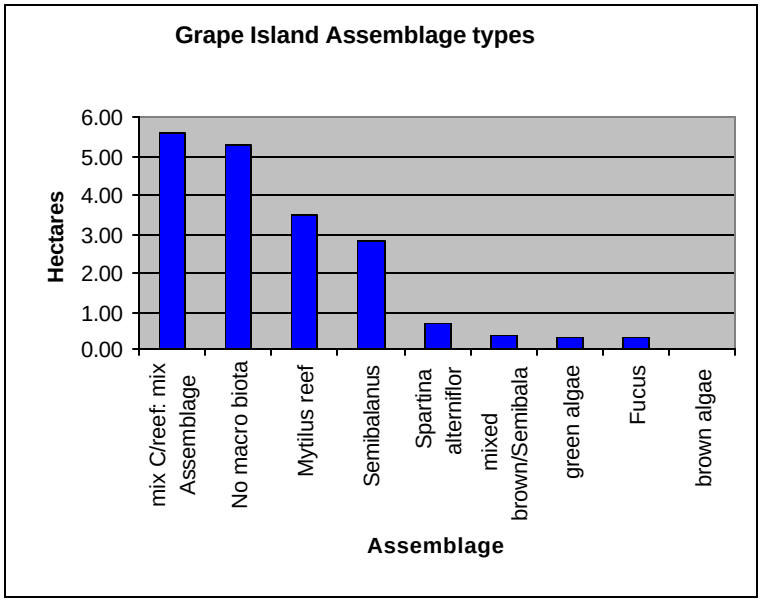
Grape Island Intertidal Substrate



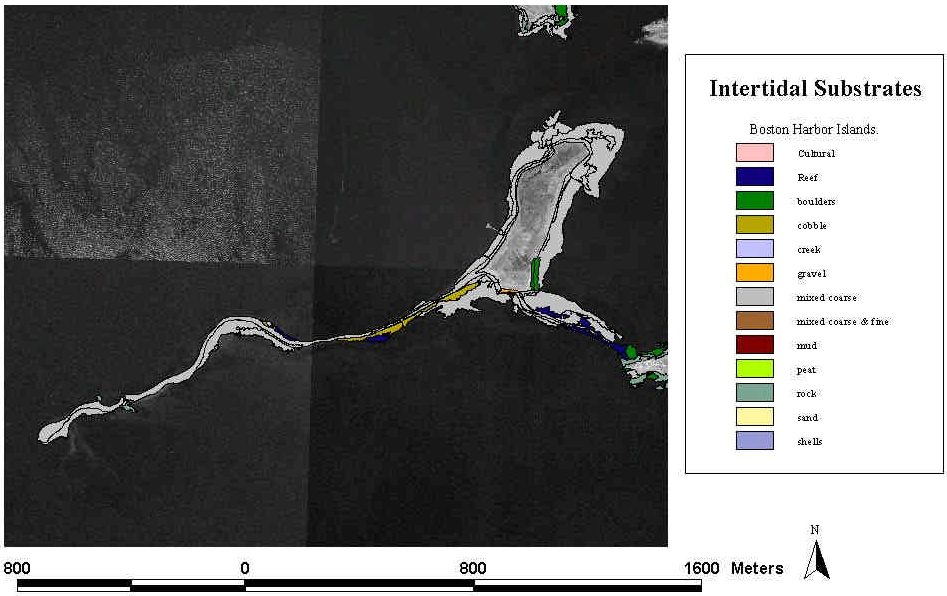
Grape Island Intertidal Assemblage



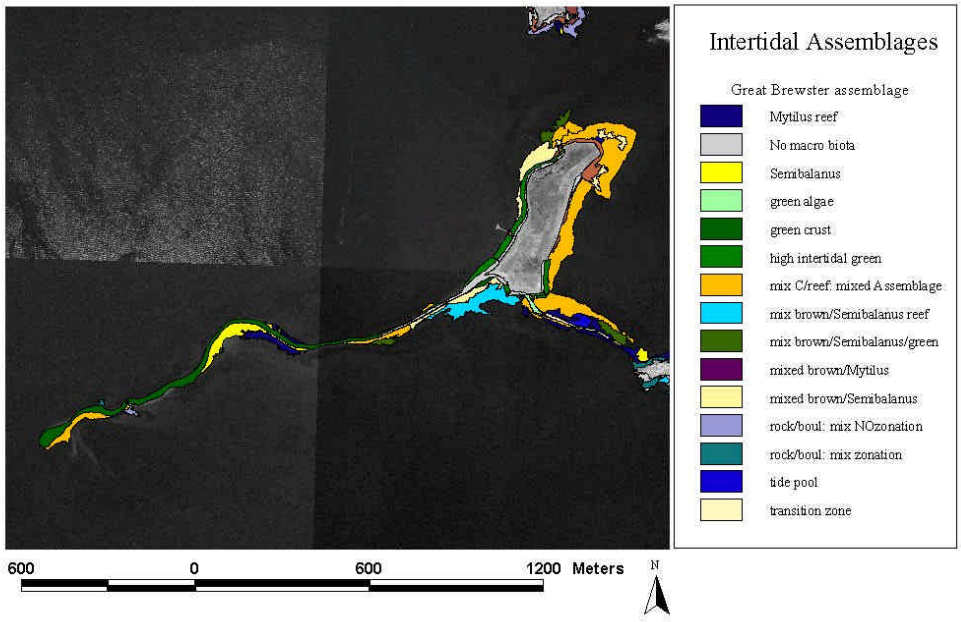

Grape Island Substrate Types
Hectares
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
mixed coarse
mixed coarse & fine
Reef
cobble
mud
peat
rock
boulders
Substrate

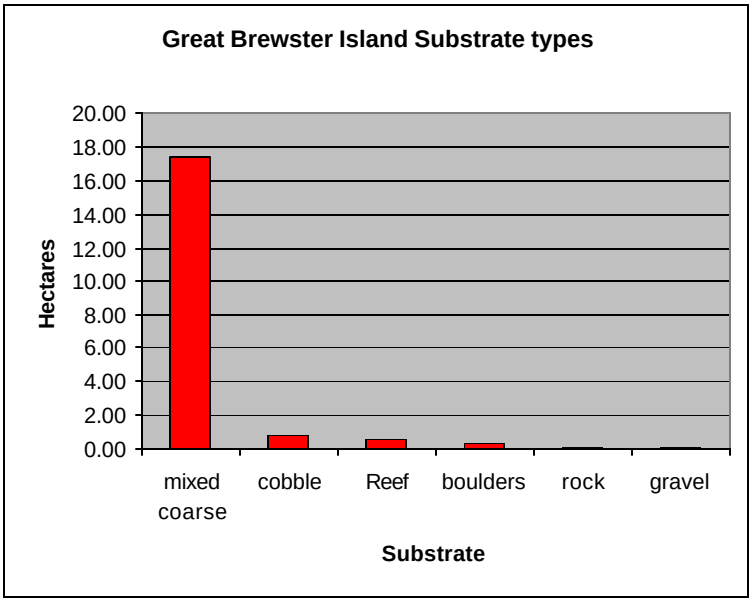

Grape Island Assemblage types
Hectares
6.00
5.00
4.00
3.00
2.00
1.00
0.00
mix C/reef: mix Assemblage
No macro biota
Mytilus reef
Semibalanus
Spartina alterniflor
mixed brown/Semibala
green algae
Fucus
brown algae
Assemblage

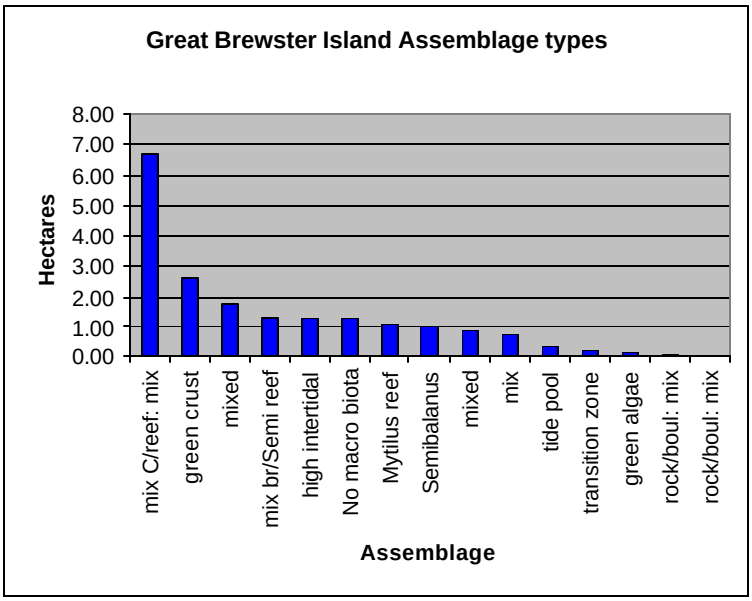
Great Brewster Intertidal Substrate



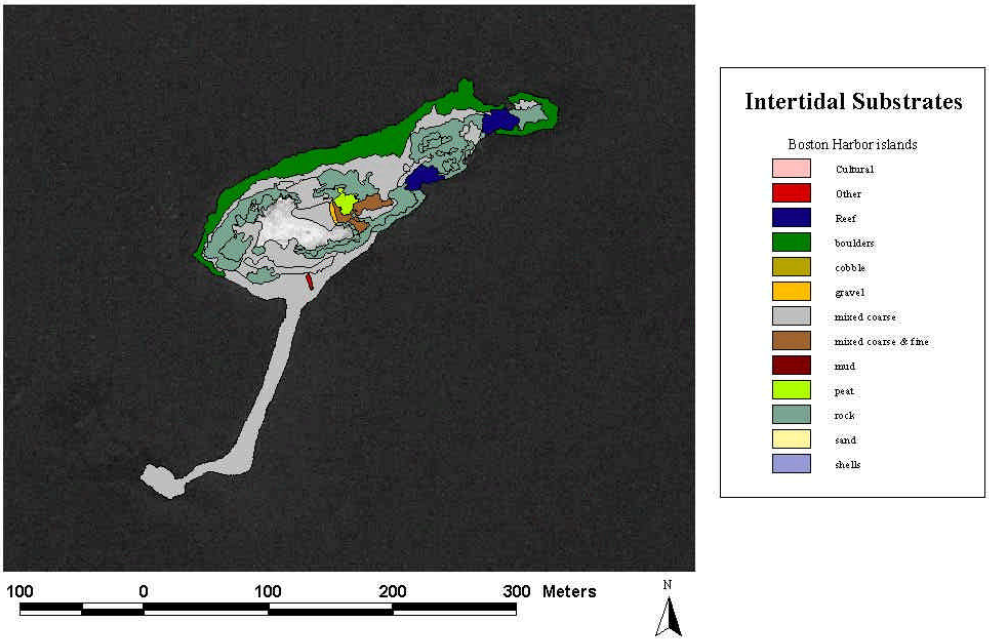
Great Brewster Intertidal Assemblages



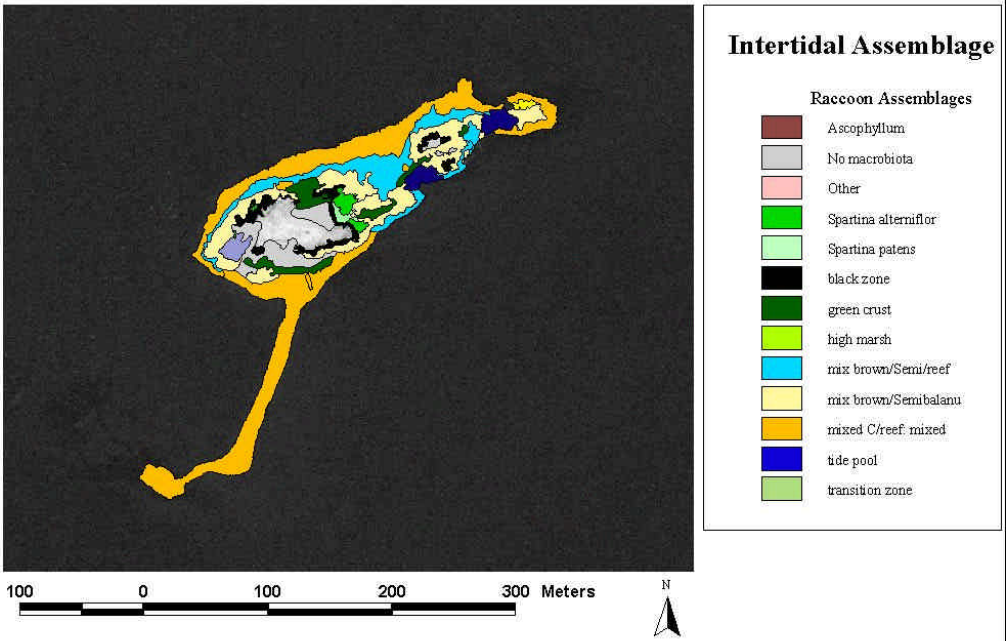

Great Brewster Island Substrate types
Hectares
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
mixed coarse
cobble
Reef
boulders
rock
gravel
Substrate

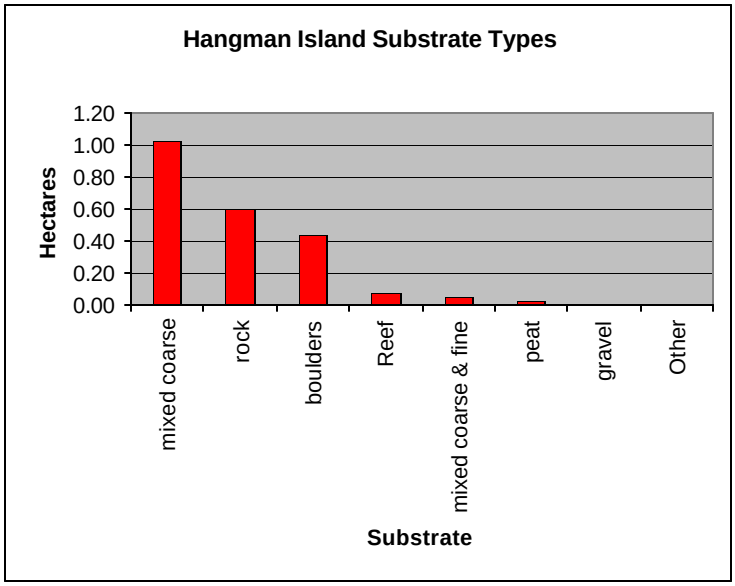

Great Brewster Island Assemblage types
Hectares
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
mix C/reef: mix
green crust
mixed
mix br/Semi reef
high intertidal
No macro biota
Mytilus reef
Semibalanus
mixed
mix
tide pool
transition zone
green algae
rock/boul: mix
rock/boul: mix
Assemblage

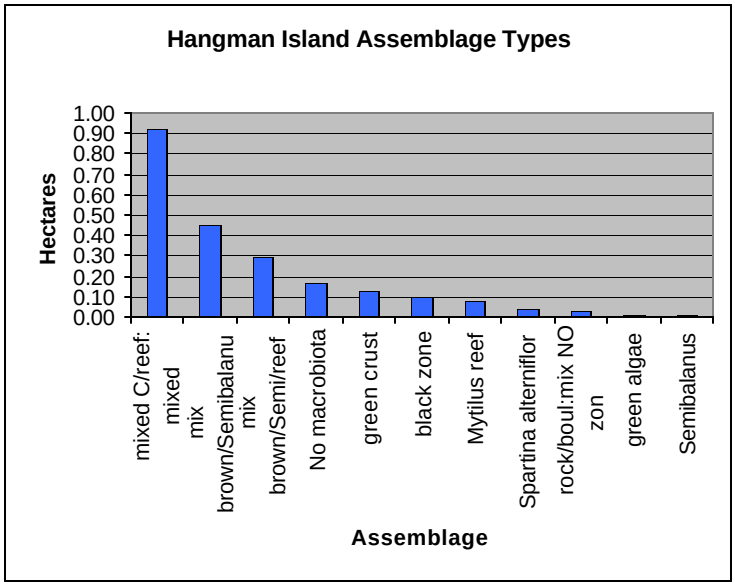
Hangman island Intertidal Substrate



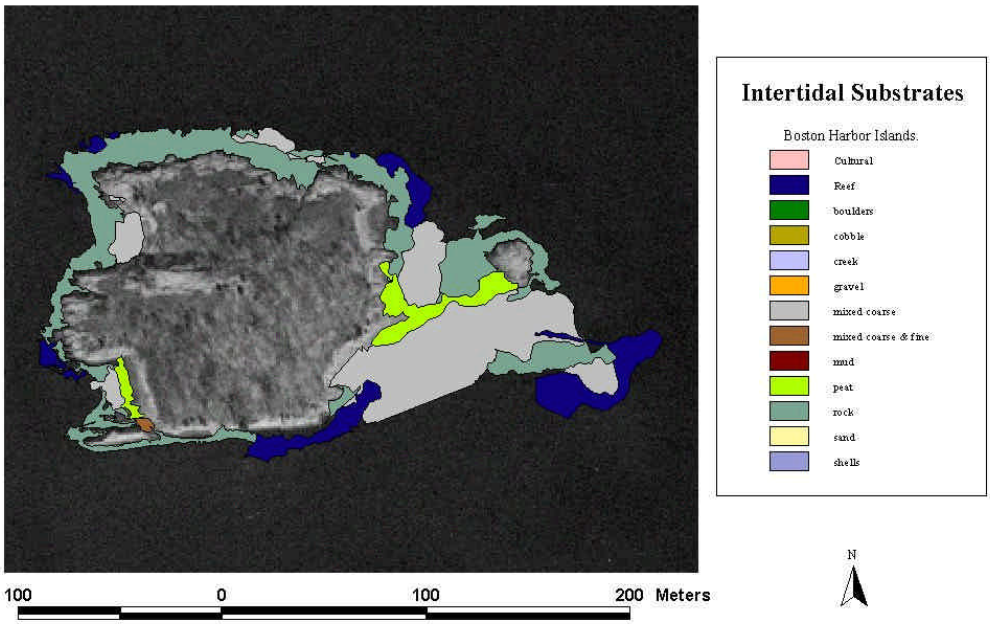
Hangman Island Intertidal Assemblages



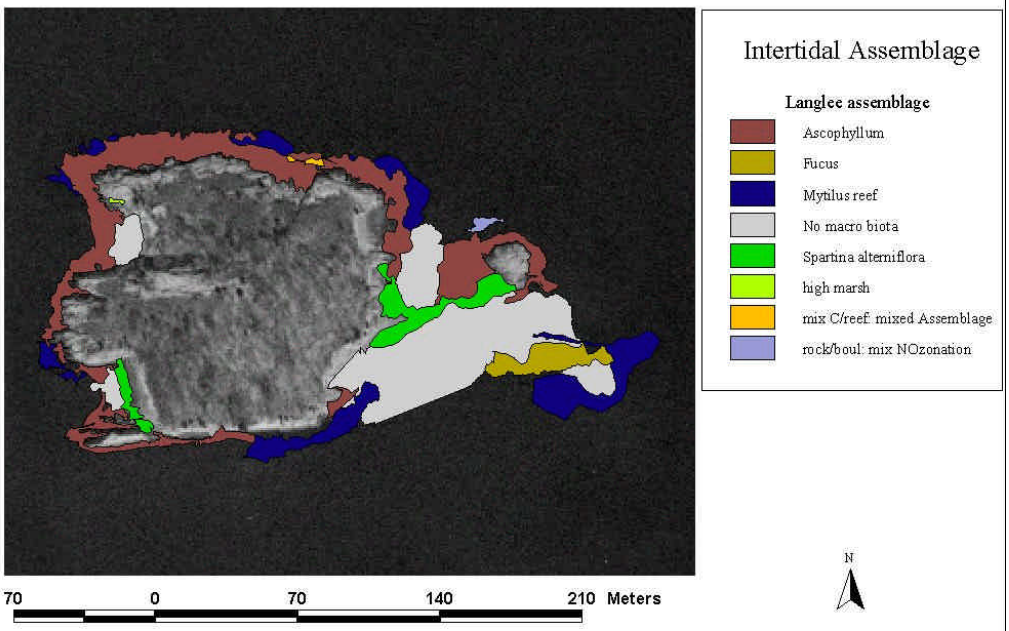

Hangman Island Substrate Types
Hectares
1.20
1.00
0.80
0.60
0.40
0.20
0.00
mixed coarse
rock
boulders
Reef
mixed coarse & fine
peat
gravel
Other
Substrate

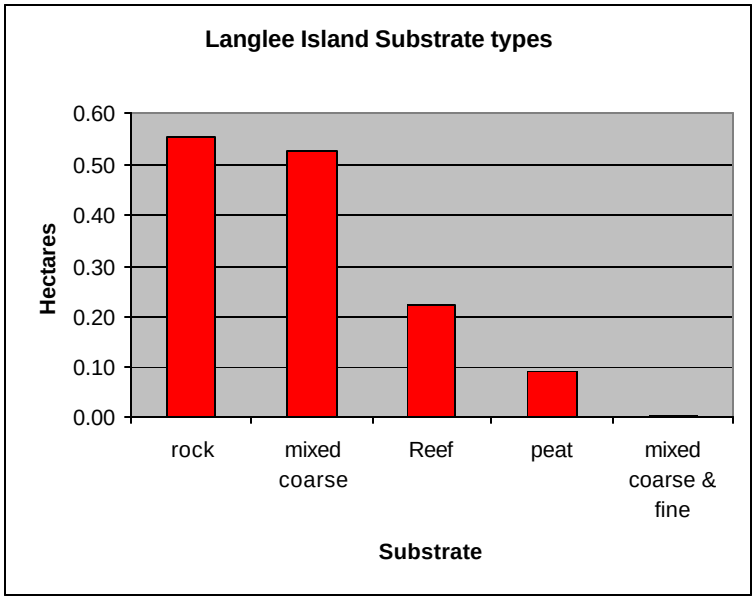

Hangman Island Assemblage Types
Hectares
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
mixed C/reef:
mixed
mix
brown/Semibalanu
mix
brown/Semi/reef
No macrobiota
green crust
black zone
Mytilus reef
Spartina alterniflor
rock/boul:mix NO
zon
green algae
Semibalanus
Assemblage

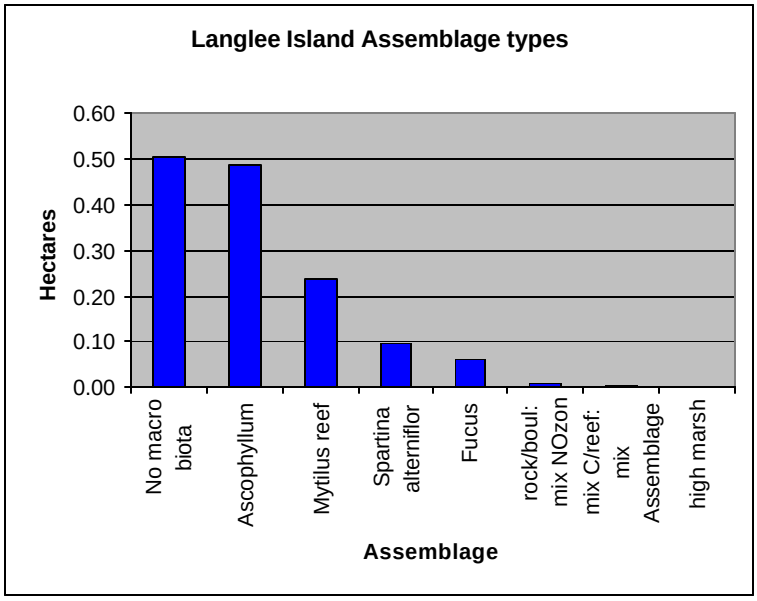
Langlee Island Intertidal Substrate



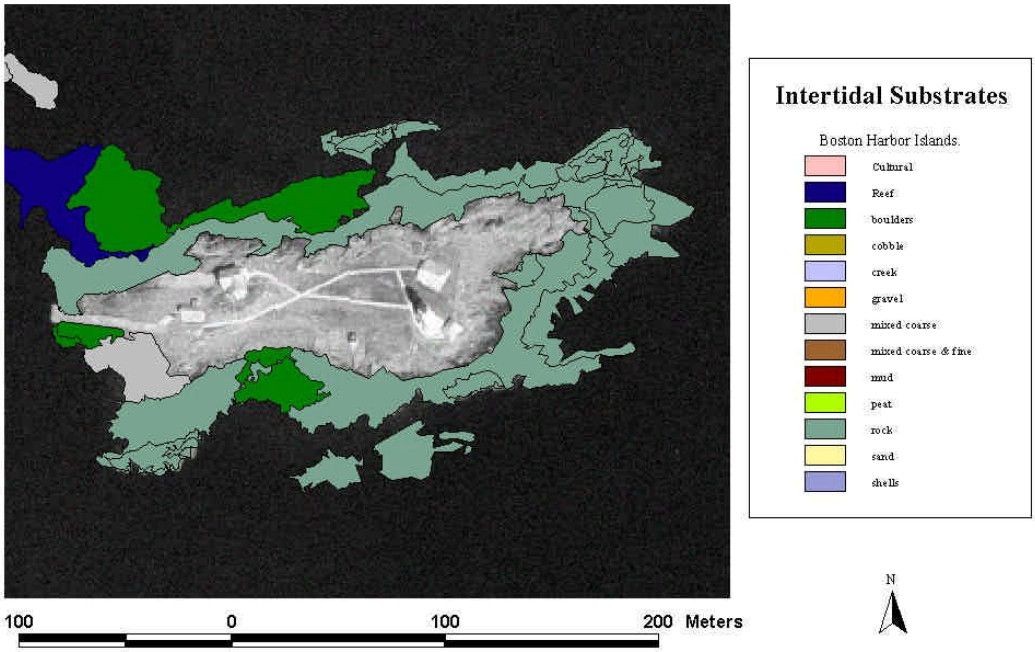
Langlee Island Intertidal Assemblages



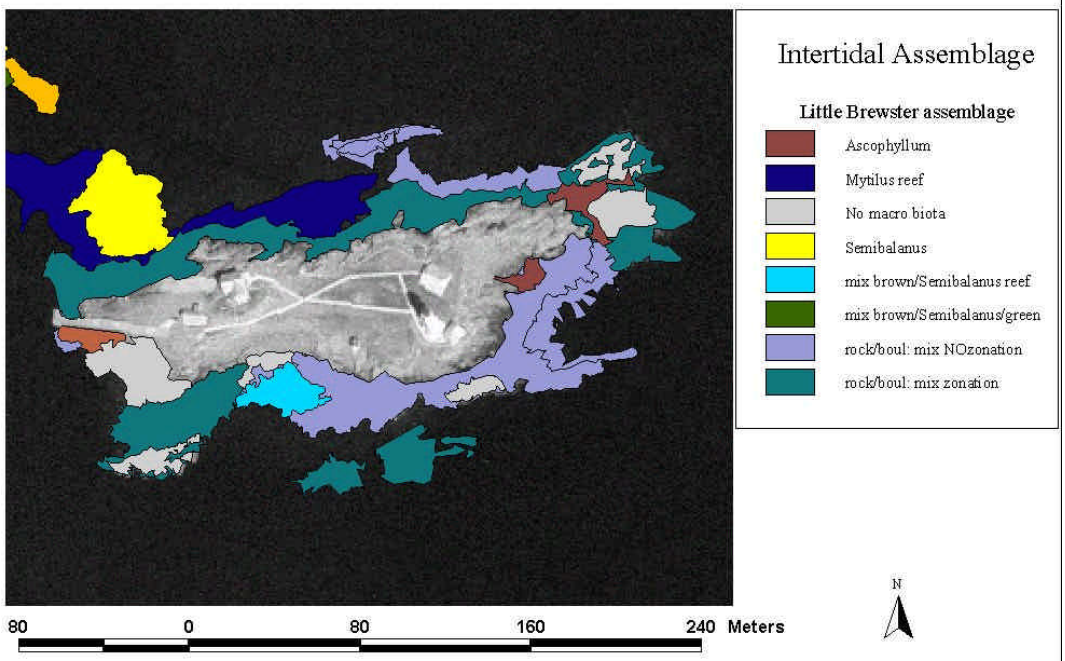

Langlee Island Substrate types
Hectares
0.60
0.50
0.40
0.30
0.20
0.10
0.00
rock
mixed coarse
Reef
peat
mixed coarse & fine
Substrate

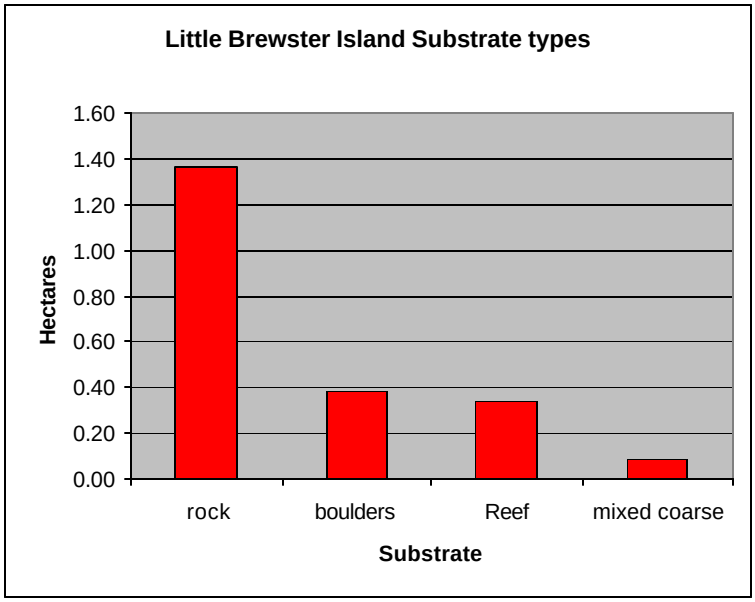

Langlee Island Assemblage types
Hectares
0.60
0.50
0.40
0.30
0.20
0.10
0.00
No macro biota
Ascophyllum
Mytilus reef
Spartina alterniflor
Fucus
rock/boul: mix NOzon
mix C/reef: mix
Assemblage
high marsh
Assemblage

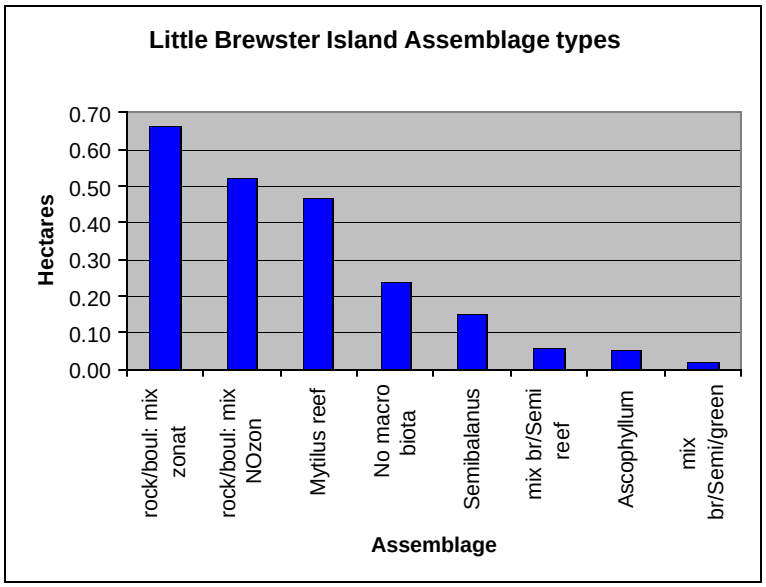
Little Brewster Intertidal Substrate



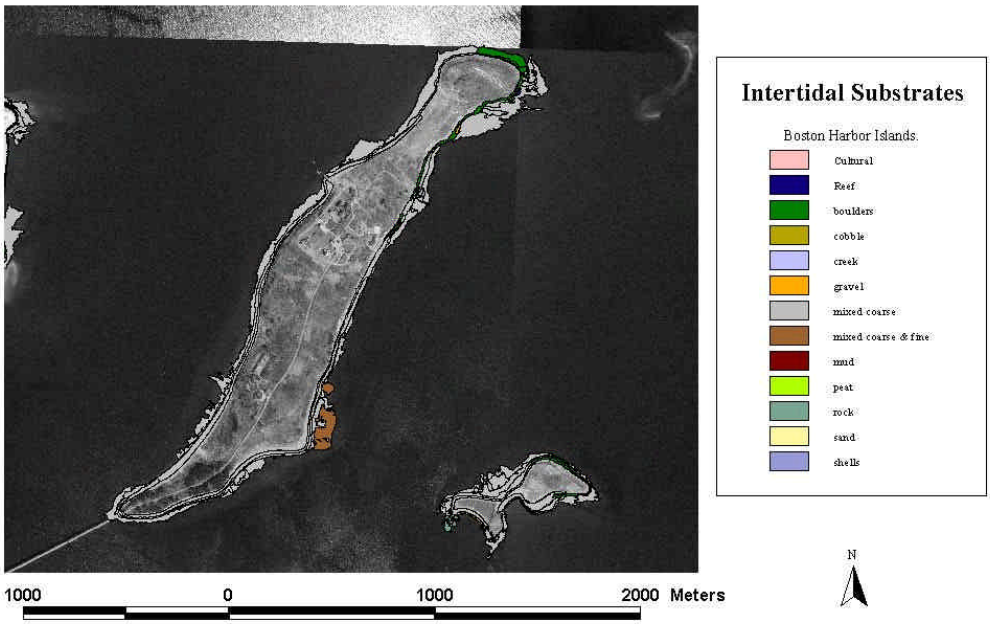
Little Brewster Intertidal Assemblages



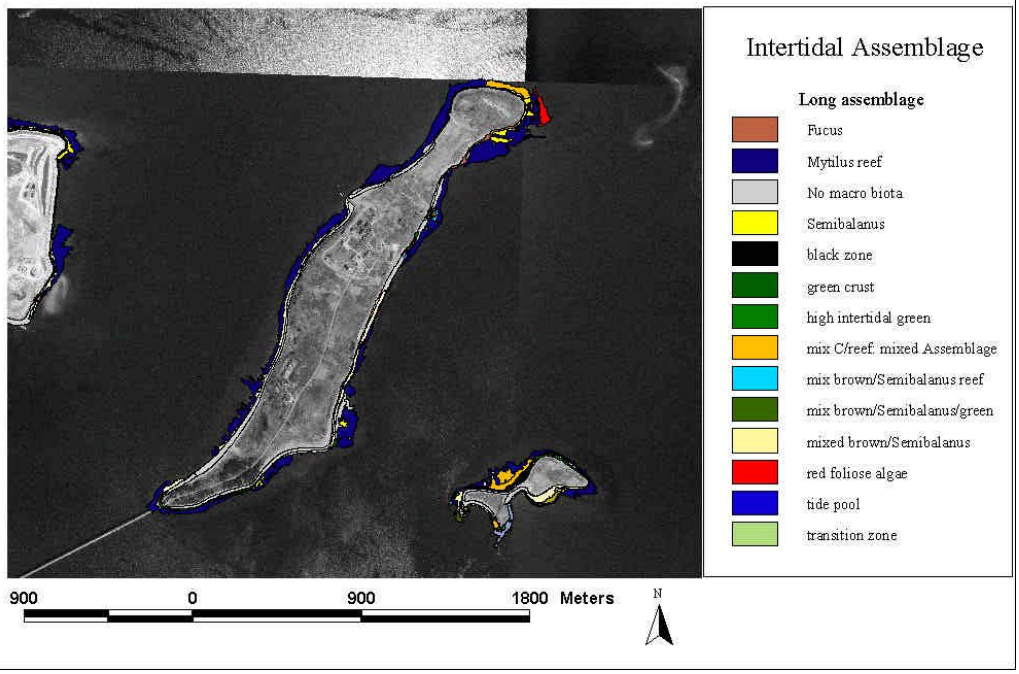

Little Brewster Island Substrate types
Hectares
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
rock
boulders
Reef
mixed coarse
Substrate

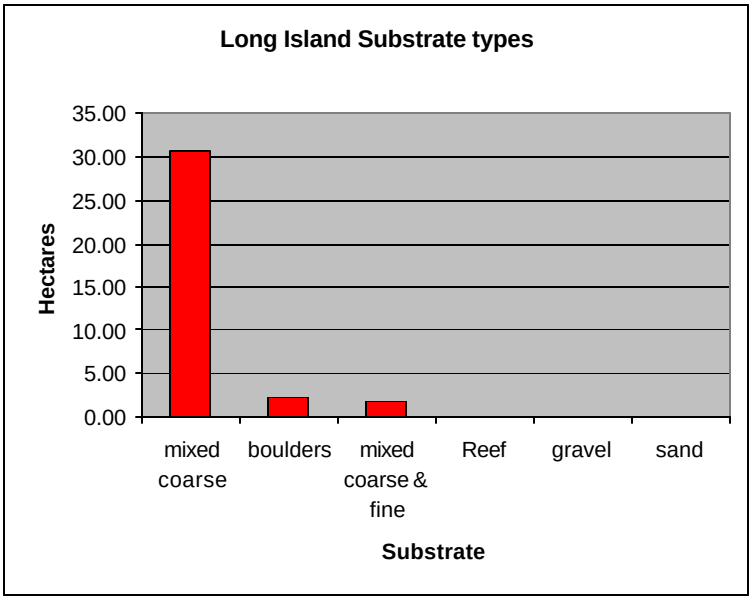

Little Brewster Island Assemblage types
Hectares
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
rock/boul: mix zonat
rock/boul: mix NOzon
Mytilus reef
No macro biota
Semibalanus
mix br/Semi reef
Ascophyllum
mix br/Semi/green
Assemblage

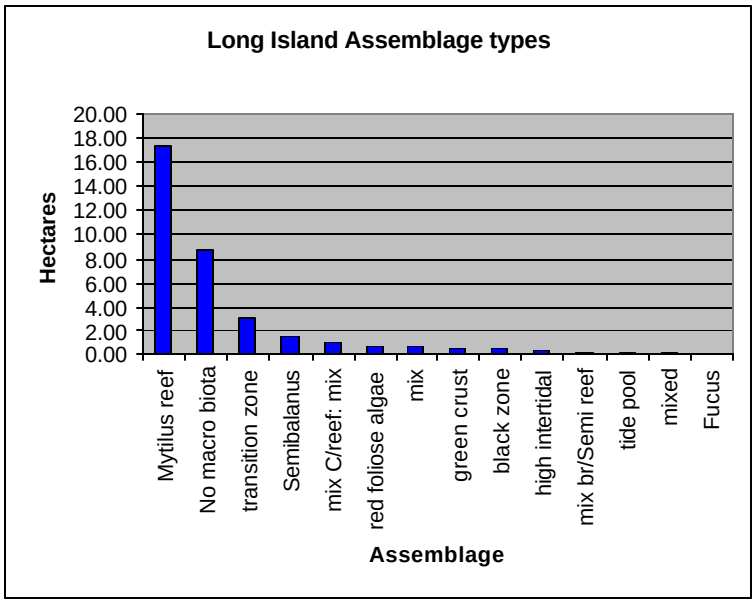
Long Island Intertidal Substrate



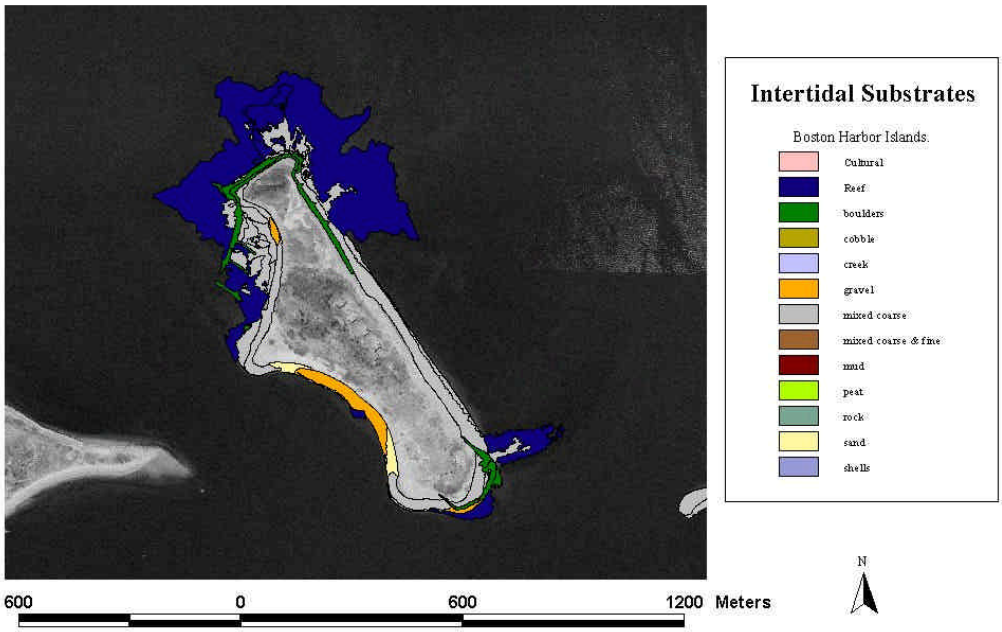
Long Island Intertidal Assemblages



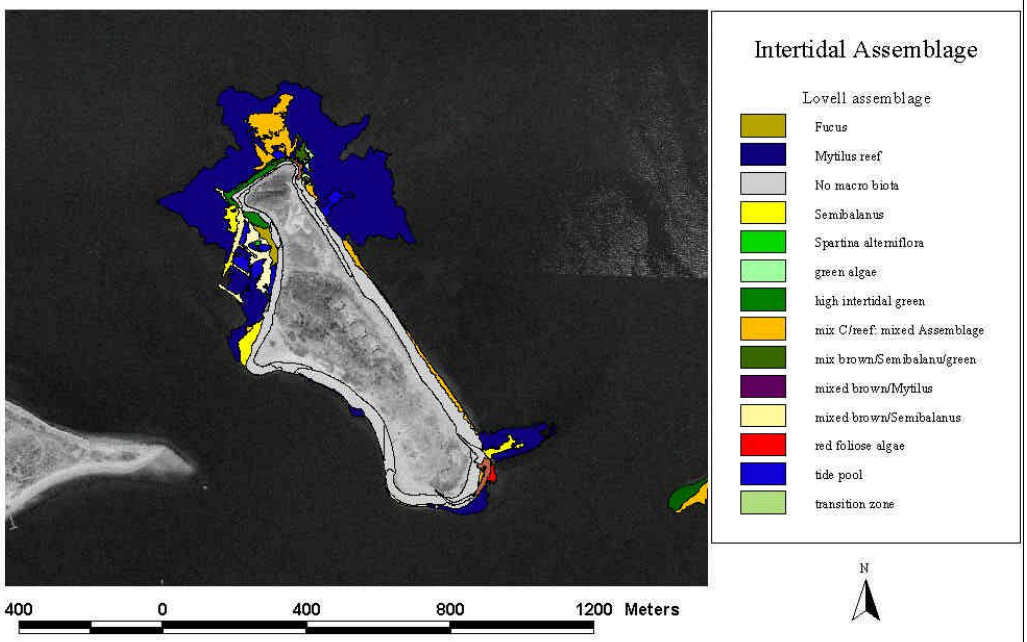

Long Island Substrate types
Hectares
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
mixed coarse
boulders
mixed coarse & fine
Reef
gravel
sand
Substrate

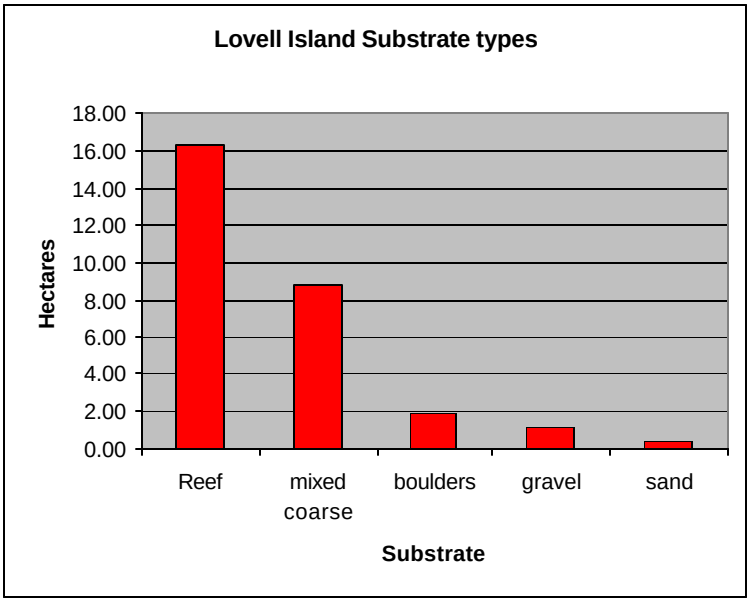

Long Island Assemblage types
Hectares
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Mytilus reef
No macro biota
transition zone
Semibalanus
mix C/reef: mix
red foliose algae
mix
green crust
black zone
high intertidal
mix br/Semi reef
tide pool
mixed
Fucus
Assemblage

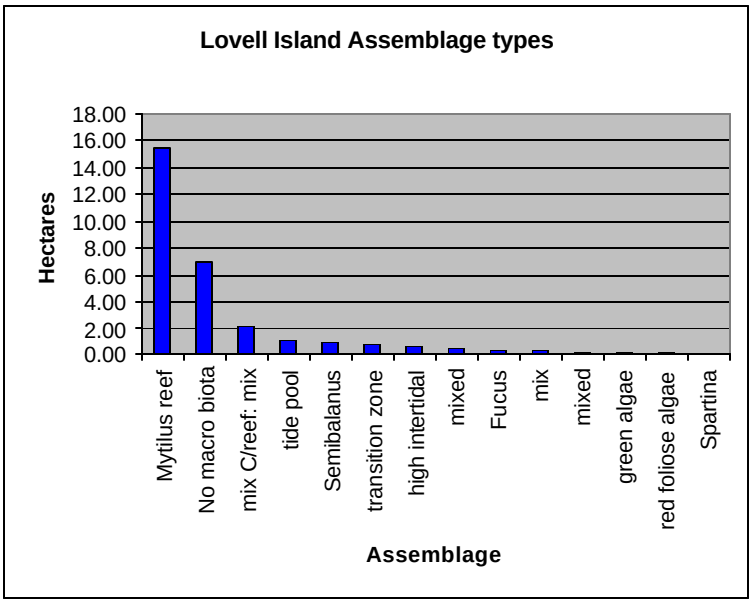
Lovell Island Intertidal Substrate



Lovell Intertidal Assemblages




Lovell Island Substrate types
Hectares
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Reef
mixed coarse
boulders
gravel
sand
Substrate


Lovell Island Assemblage types
Hectares
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Mytilus reef
No macro biota
mix C/reef: mix
tide pool
Semibalanus
transition zone
high intertidal
mixed
Fucus
mix
mixed
green algae
red foliose algae
Spartina
Assemblage