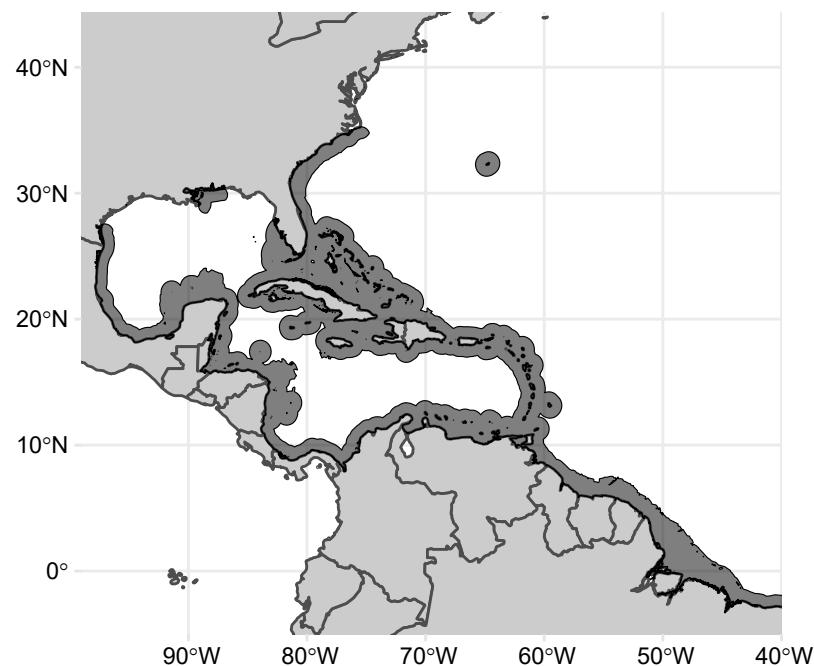
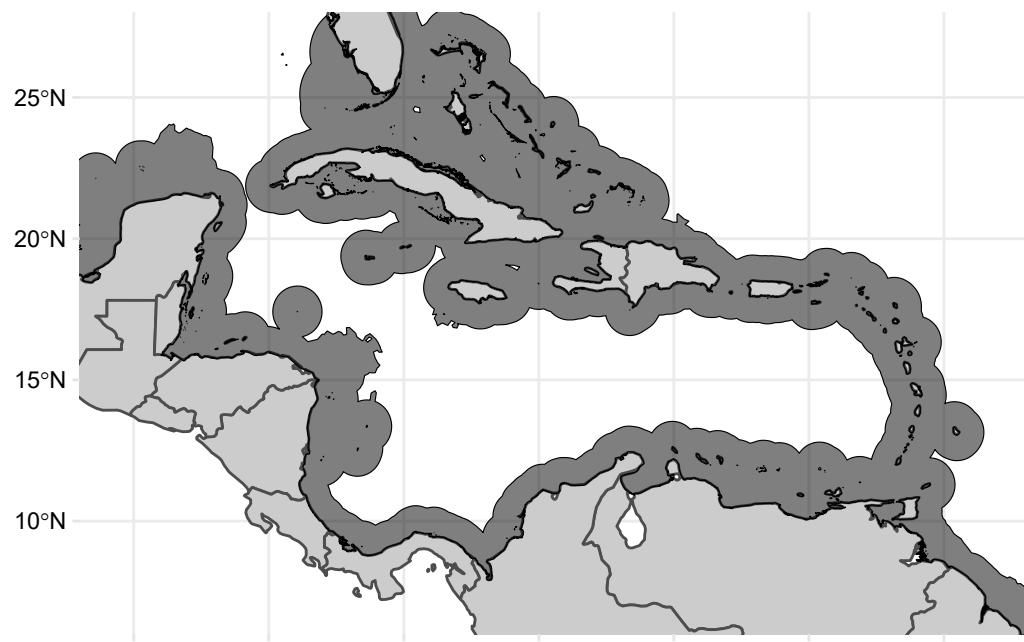


A

Mutton Snapper

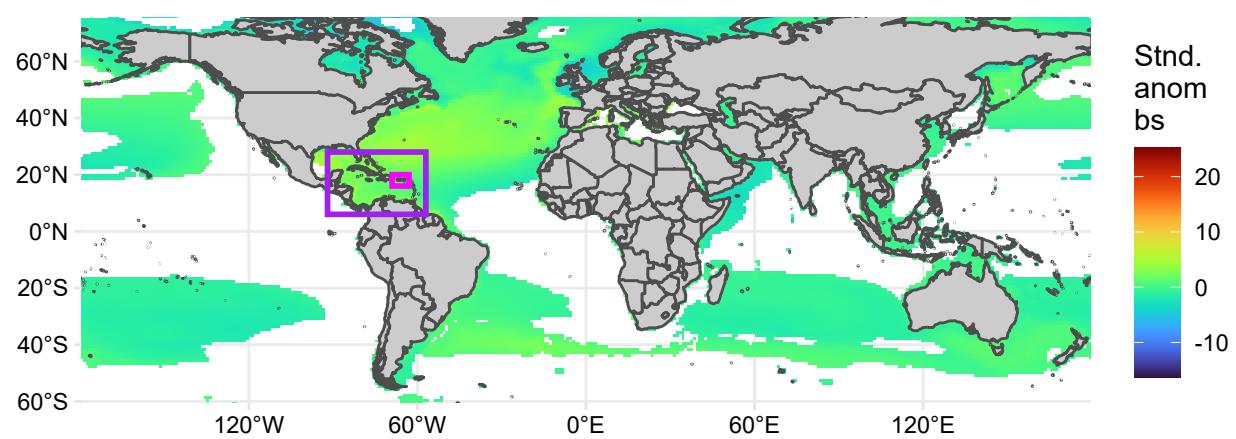


B



C

Global: bs

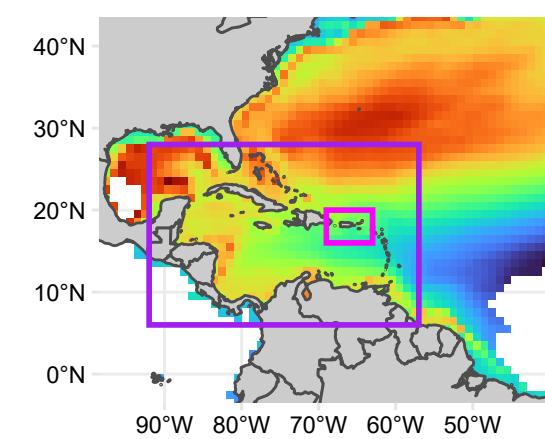


Stnd.
anom
bs

20
10
0
-10

D

W. Atlantic: bs

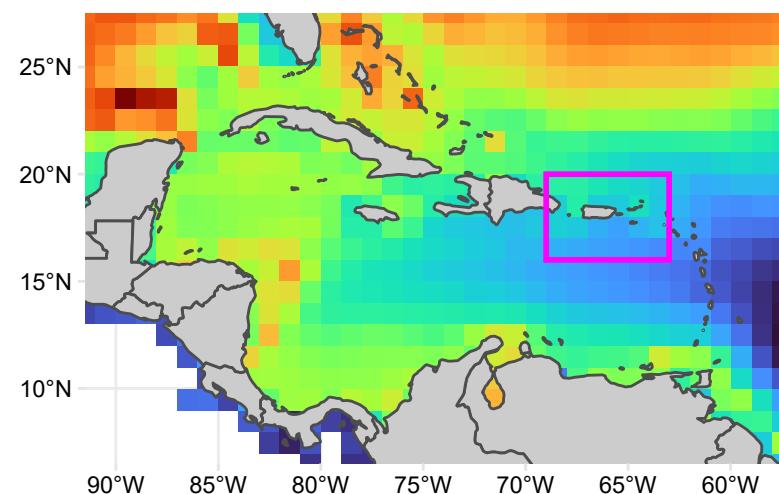


Stnd.
anom
bs

4
2
0

E

Caribbean Sea: bs

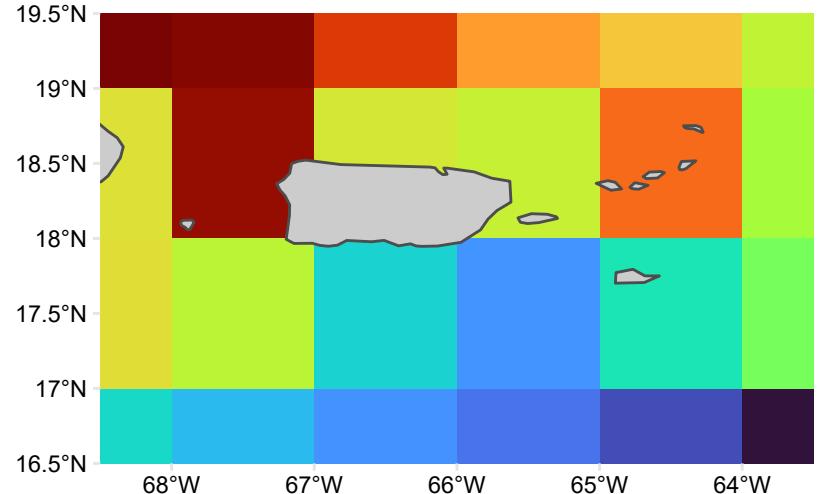


Stnd.
anom
bs

5
4
3
2
1
0

F

U.S. Caribbean: bs

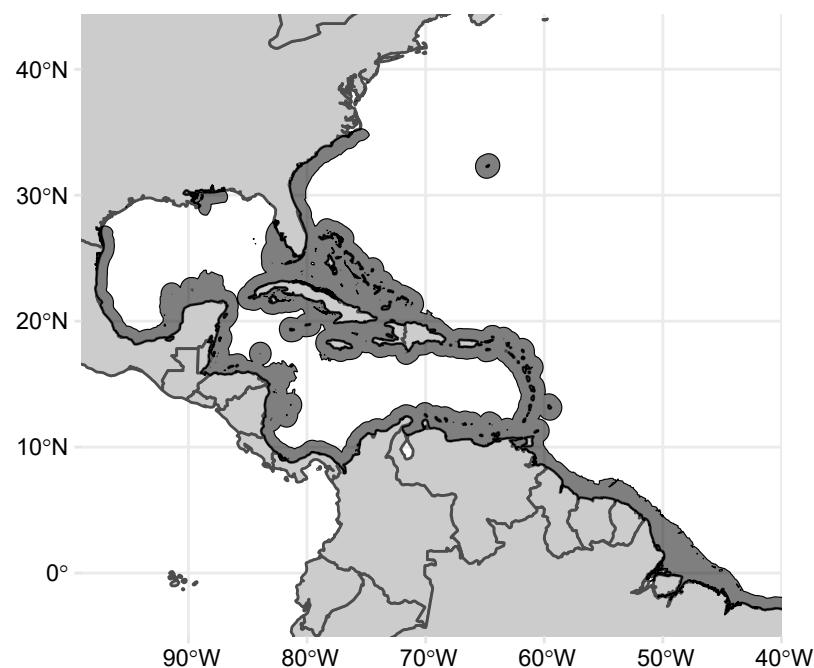


Stnd.
anom
bs

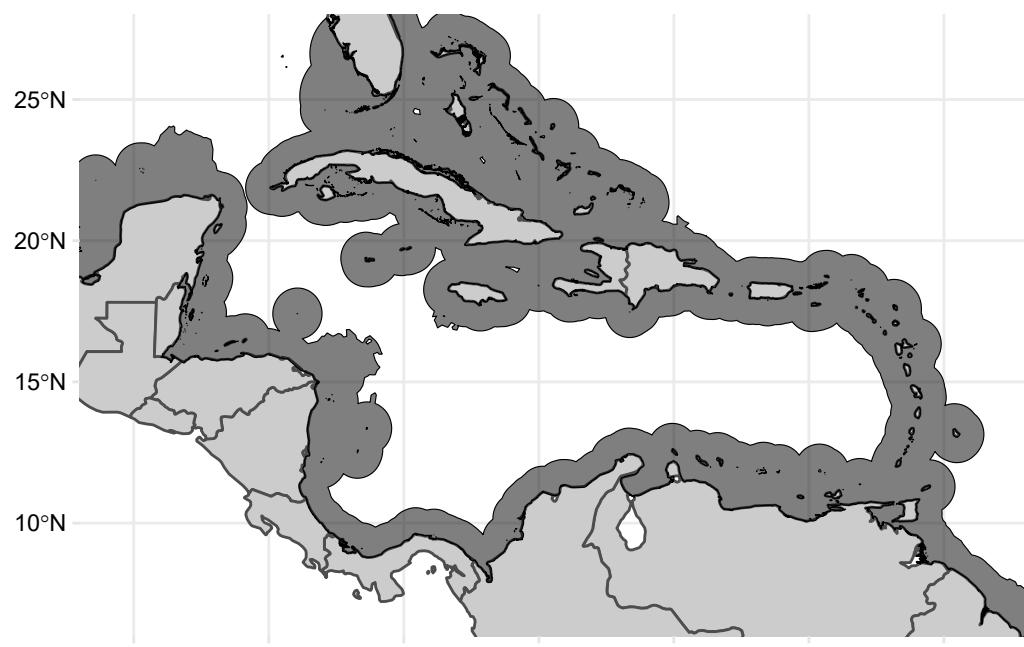
1.75
1.50
1.25
1.00
0.75

A

Mutton Snapper

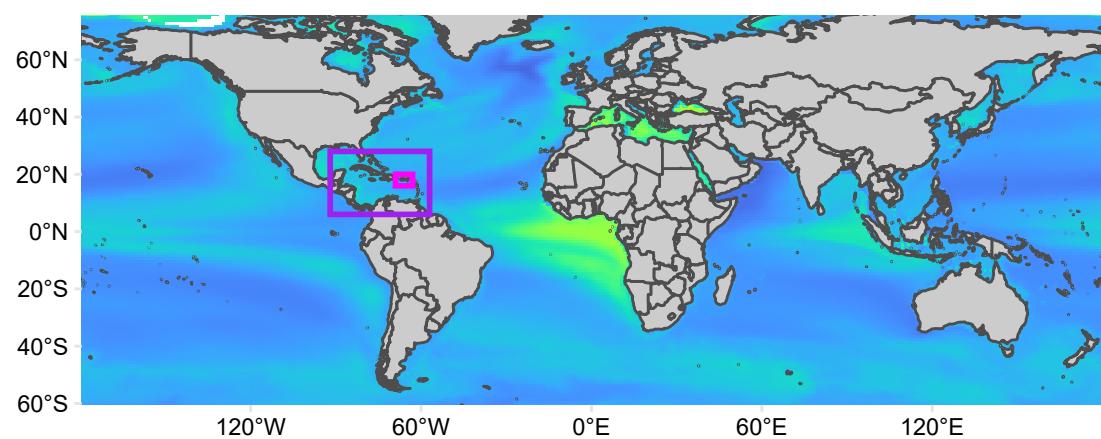


B



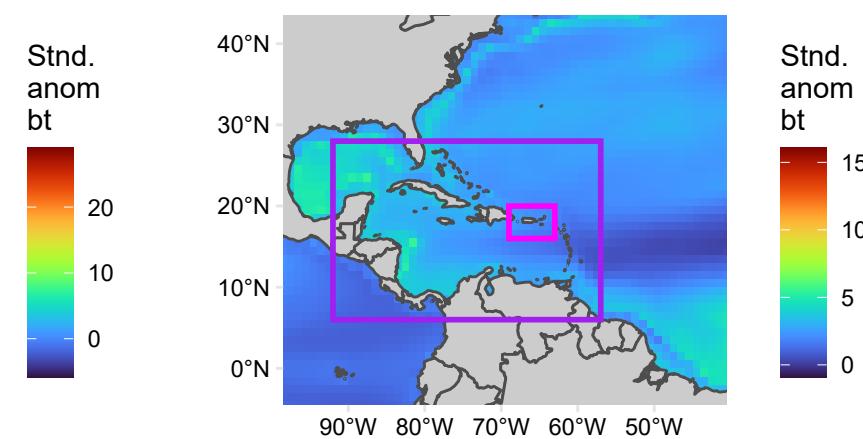
C

Global: bt



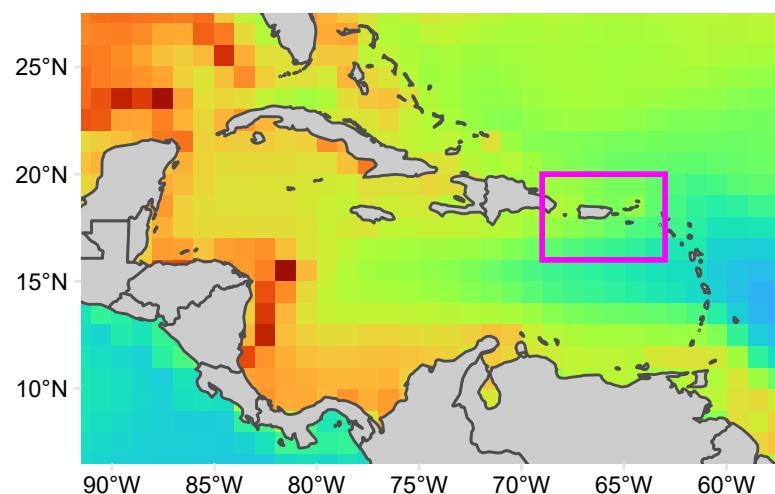
D

W. Atlantic: bt



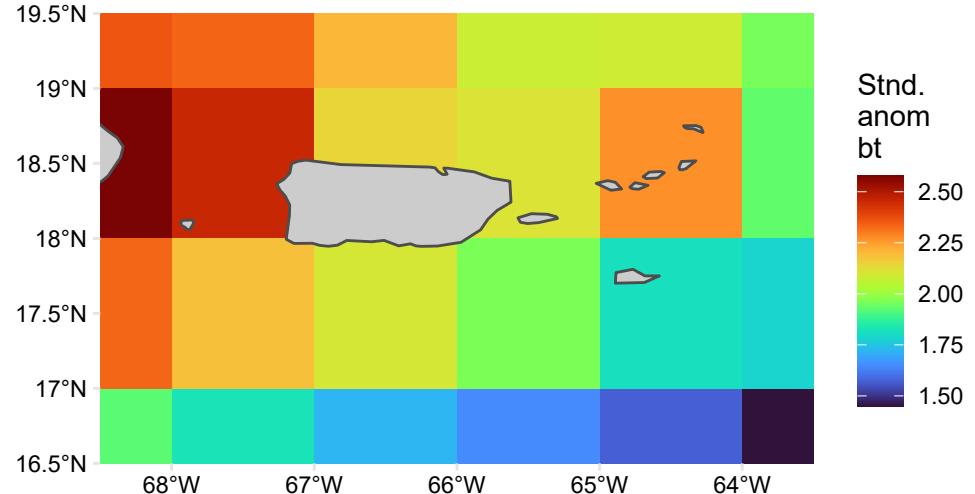
E

Caribbean Sea: bt



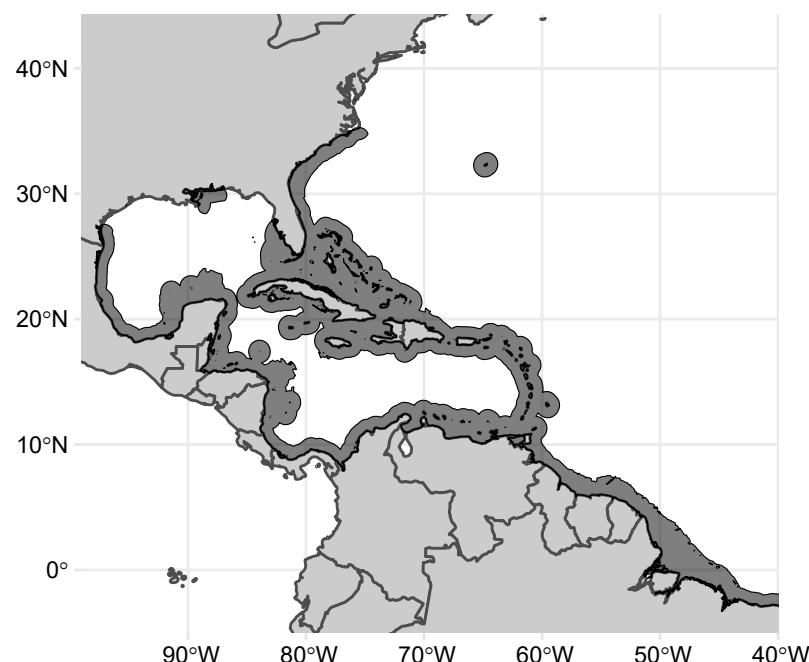
F

U.S. Caribbean: bt

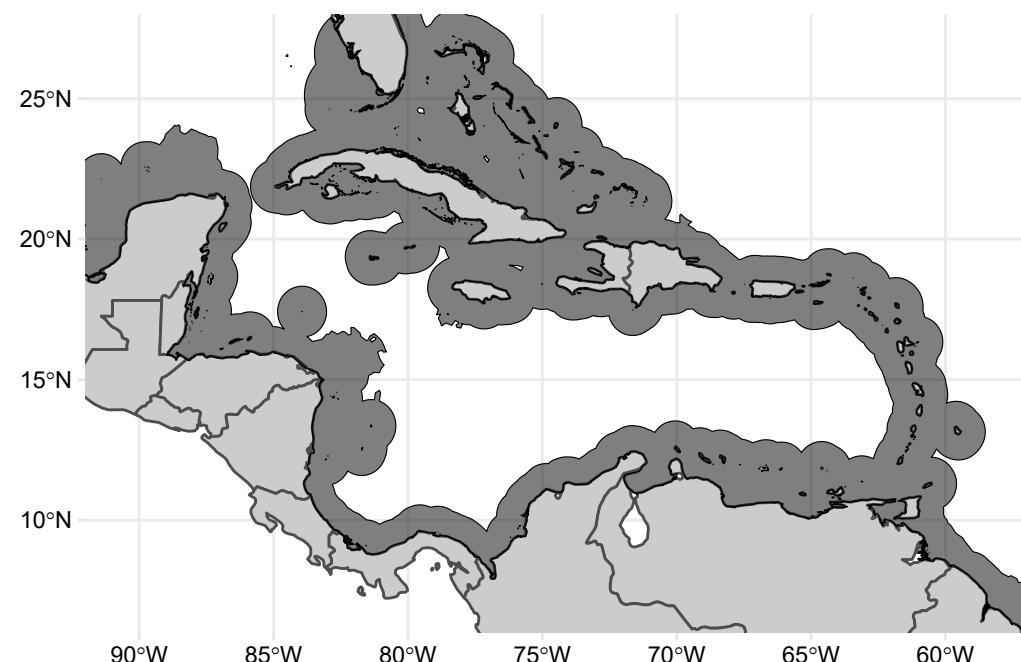


A

Mutton Snapper

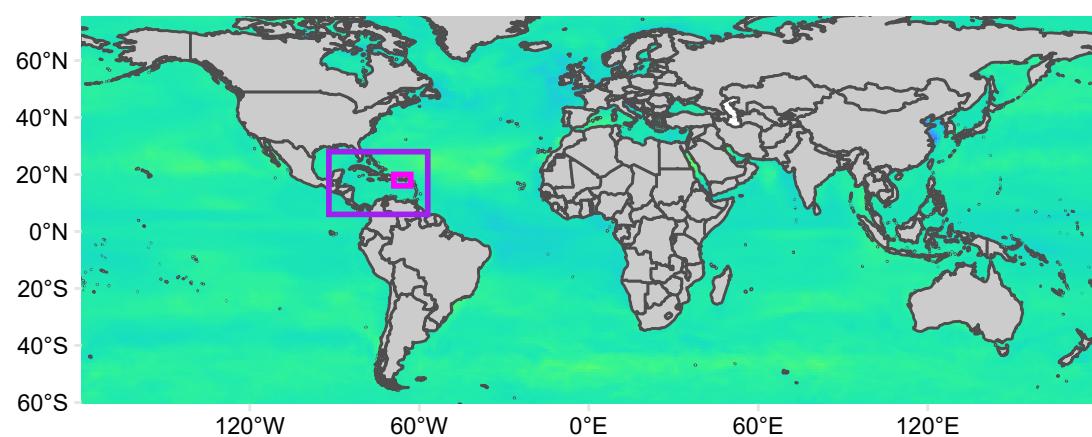


B



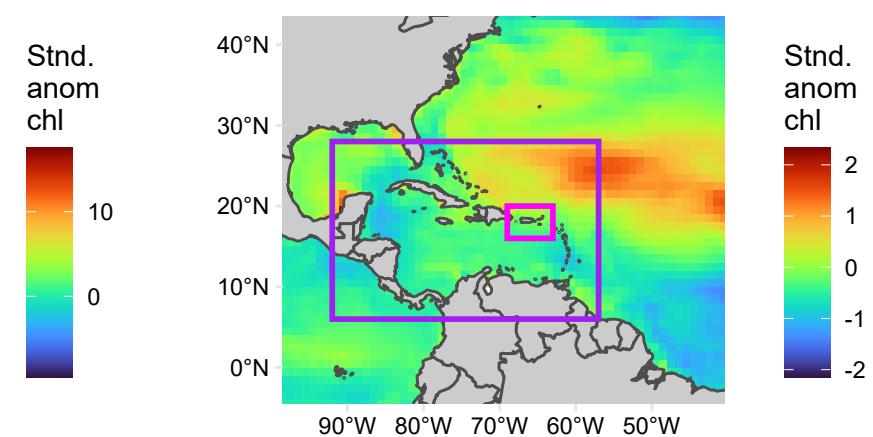
C

Global: chl



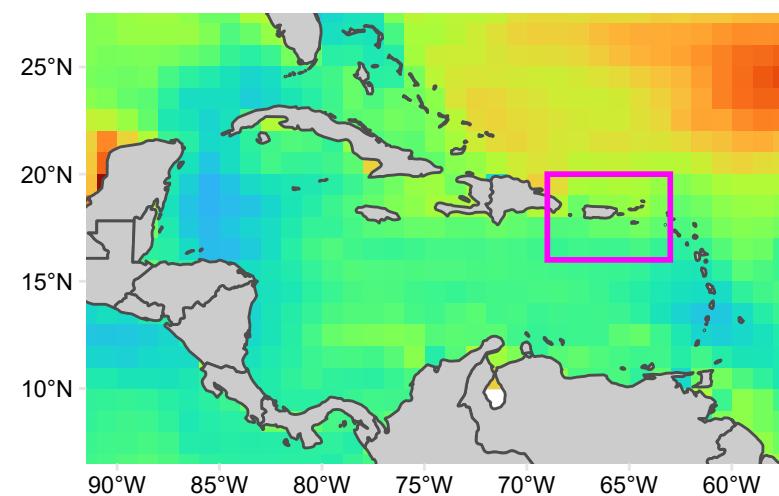
D

W. Atlantic: chl



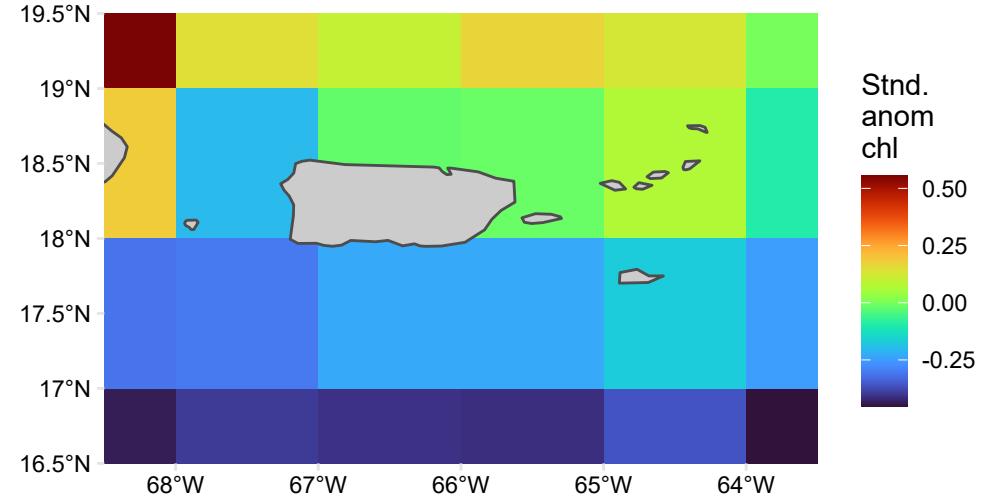
E

Caribbean Sea: chl



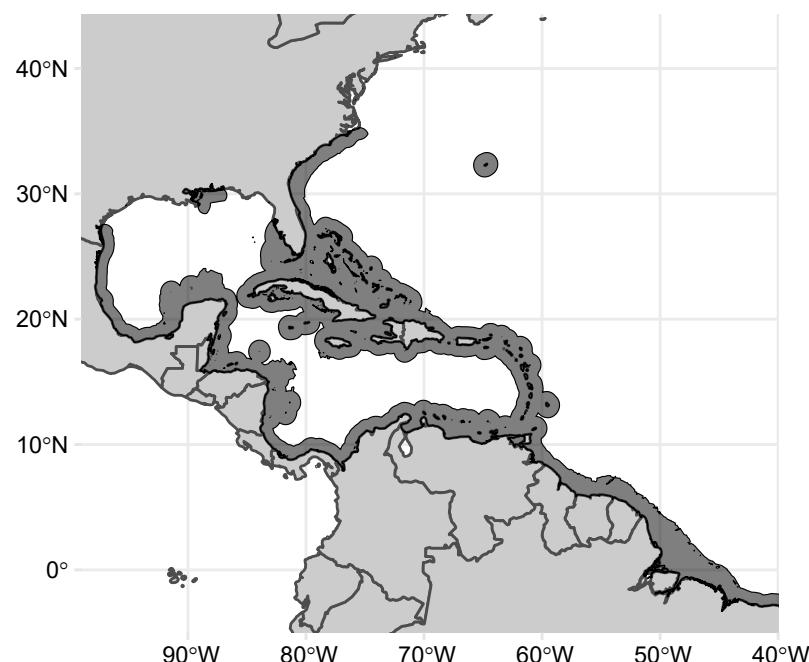
F

U.S. Caribbean: chl

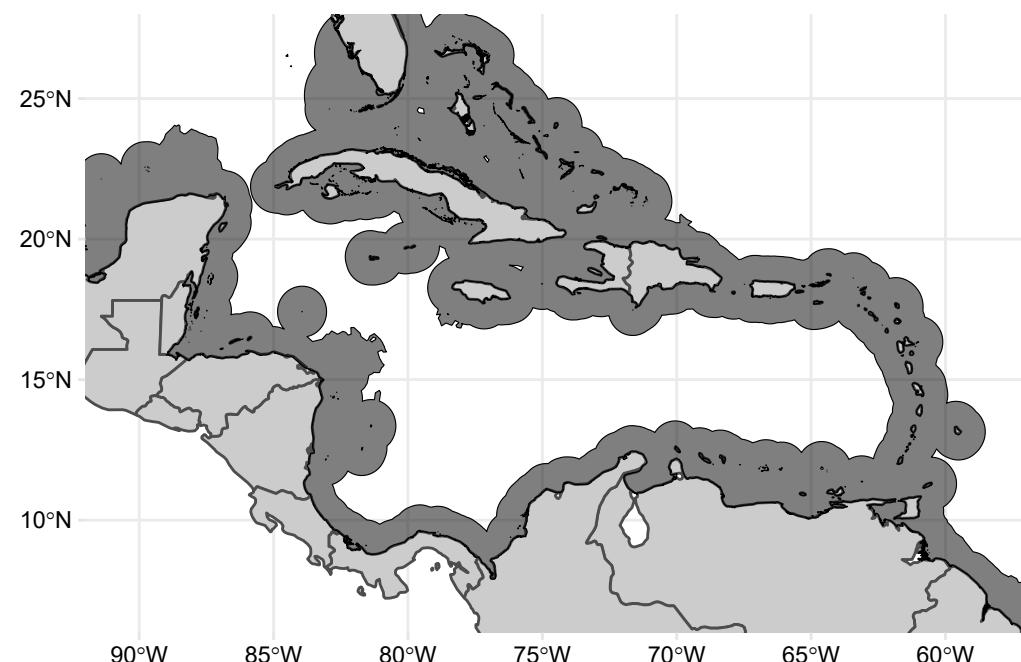


A

Mutton Snapper

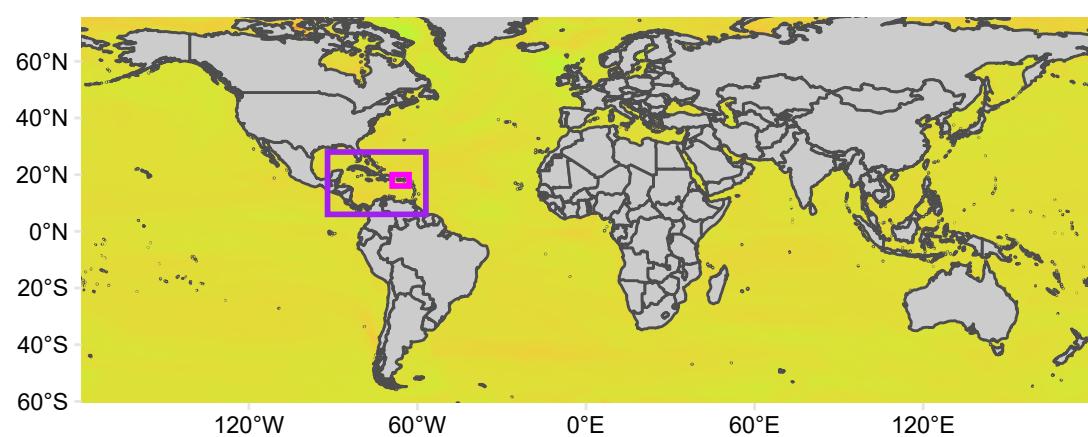


B



C

Global: mld

D

W. Atlantic: mld

A zoomed-in map of the Western Atlantic region, focusing on the Caribbean Sea and the adjacent continental shelves. The purple box from Panel C is overlaid on this map, showing the spatial distribution of depth anomalies in the region.

E

Caribbean Sea: mld

A detailed map of the Caribbean Sea and parts of the Gulf of Mexico. A purple box indicates the area shown in more detail in Panel F.

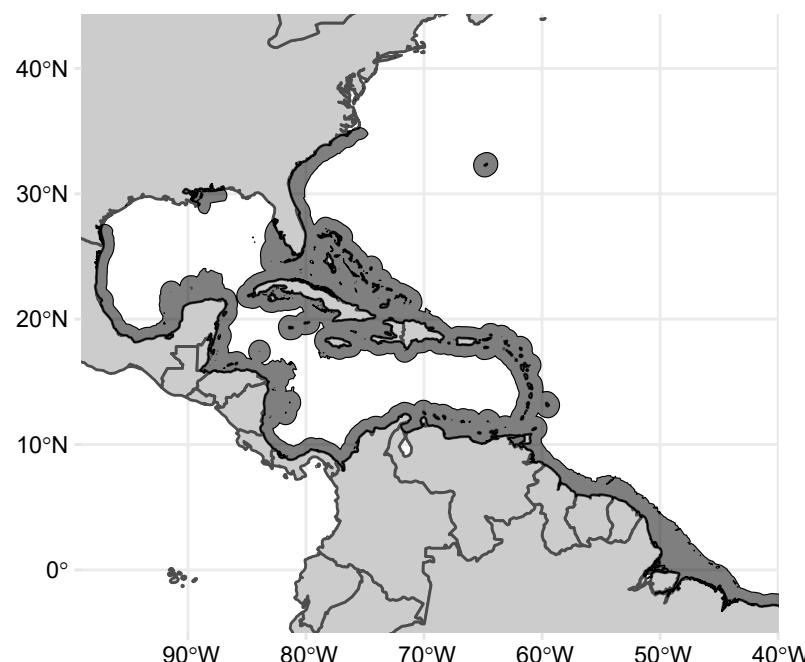
F

U.S. Caribbean: mld

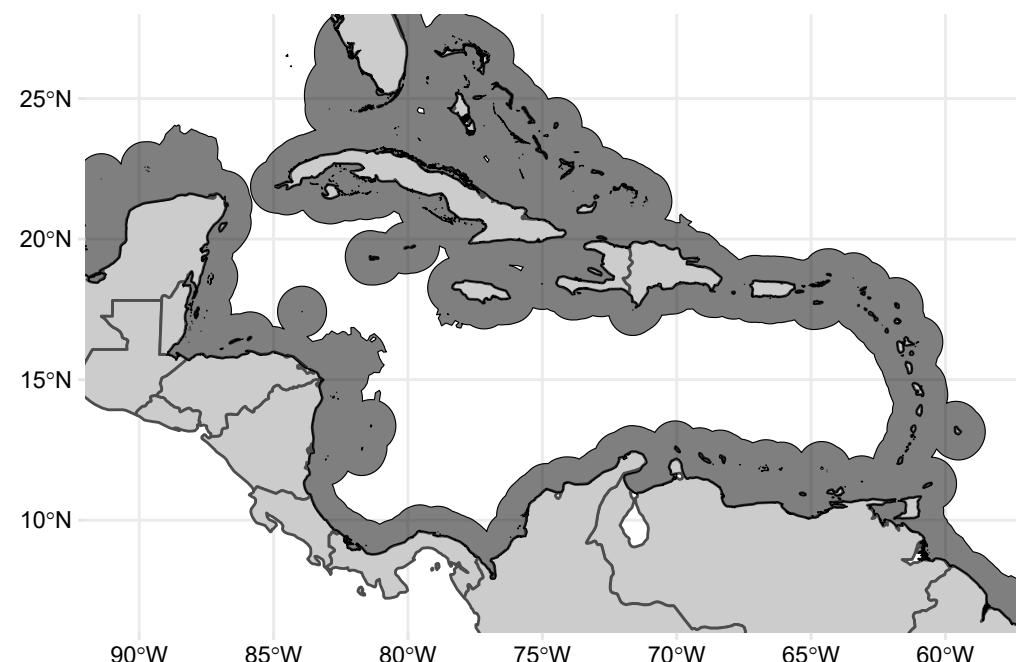
A highly detailed map of the U.S. Caribbean region, specifically the area around Puerto Rico and the Virgin Islands. The purple box from Panel E is overlaid on this map, showing the fine-scale distribution of depth anomalies.

A

Mutton Snapper

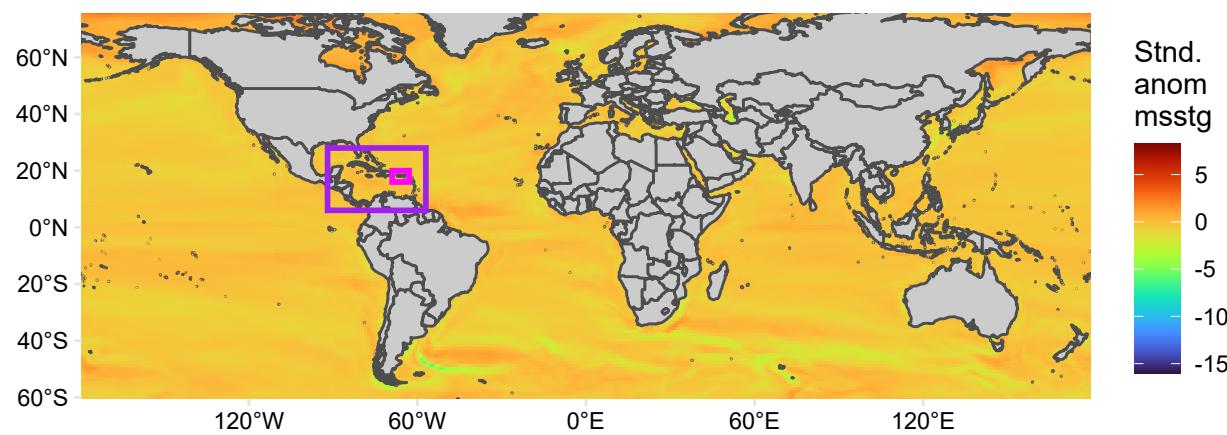


B



C

Global: msstg

D

W. Atlantic: msstg

Zoomed-in map of the Western Atlantic region (90°W to 50°W, 0°N to 40°N) showing Standardized Anomaly (Stnd. anom) for msstg. The color scale ranges from -4 (dark blue) to 8 (dark red). A purple rectangular box highlights the Caribbean Sea region shown in Map E.

E

Caribbean Sea: msstg

Zoomed-in map of the Caribbean Sea region (90°W to 60°W, 10°N to 25°N) showing Standardized Anomaly (Stnd. anom) for msstg. The color scale ranges from -4 (dark blue) to 8 (dark red). A purple rectangular box highlights the U.S. Caribbean region shown in Map F.

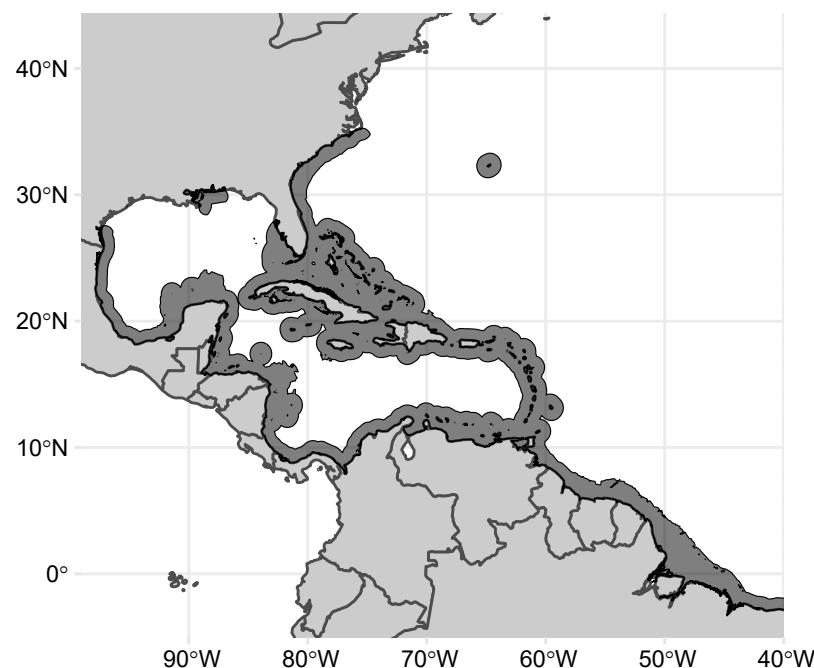
F

U.S. Caribbean: msstg

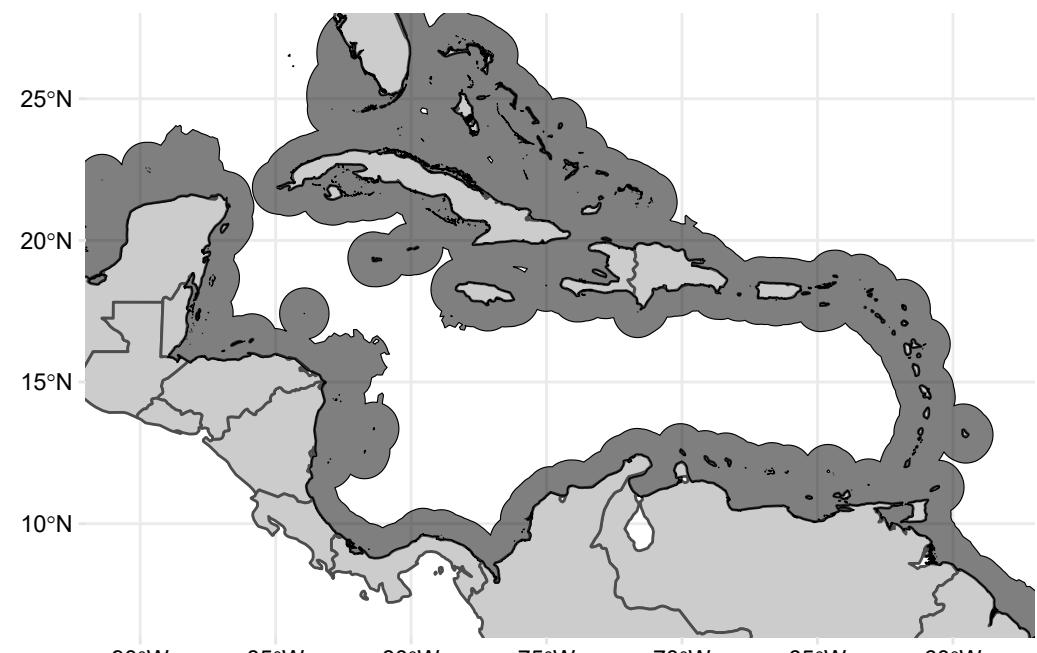
Detailed map of the U.S. Caribbean region (68°W to 64°W, 16.5°N to 19.5°N) showing Standardized Anomaly (Stnd. anom) for msstg. The color scale ranges from -0.75 (dark blue) to -0.25 (dark red). A small red diamond is located near 18.2°N, 67.5°W.

A

Mutton Snapper

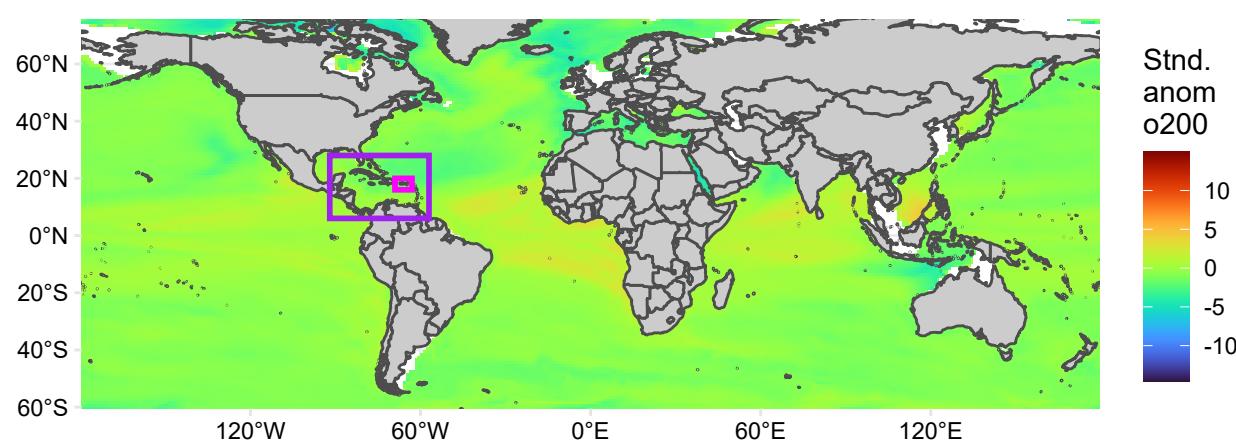


B



C

Global: o200

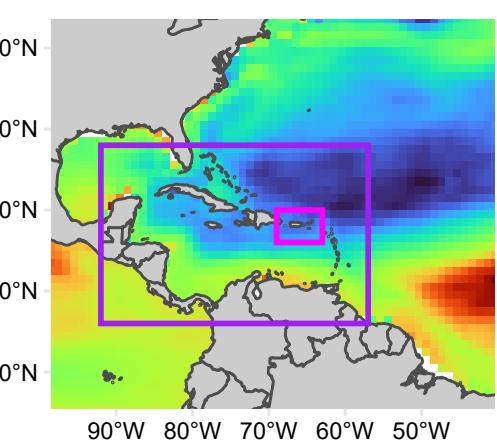


Stnd.
anom
o200

10
5
0
-5
-10

D

W. Atlantic: o200

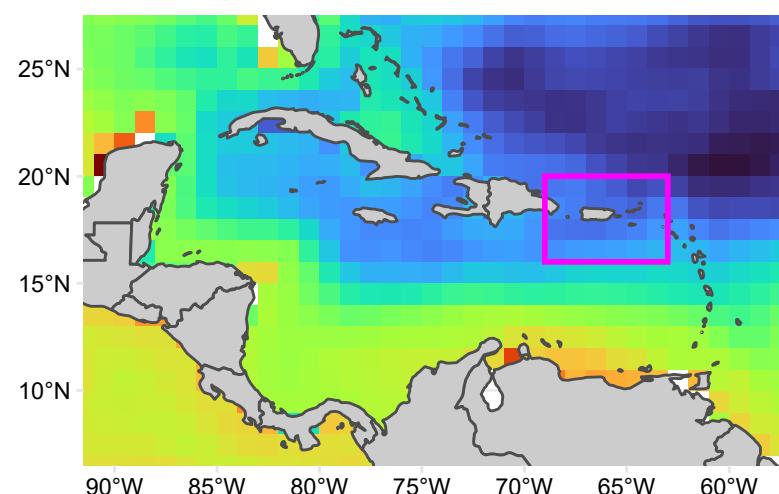


Stnd.
anom
o200

2
1
0
-1
-2

E

Caribbean Sea: o200

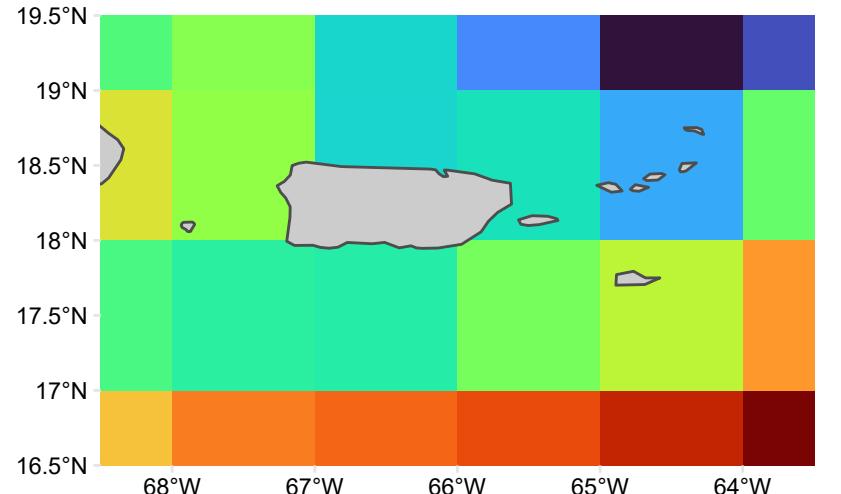


Stnd.
anom
o200

2
1
0
-1
-2

F

U.S. Caribbean: o200

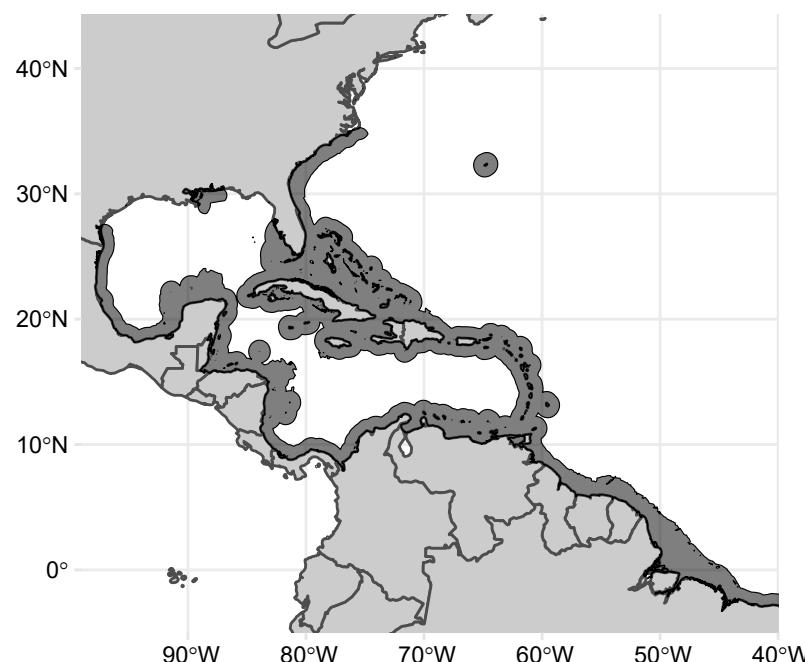


Stnd.
anom
o200

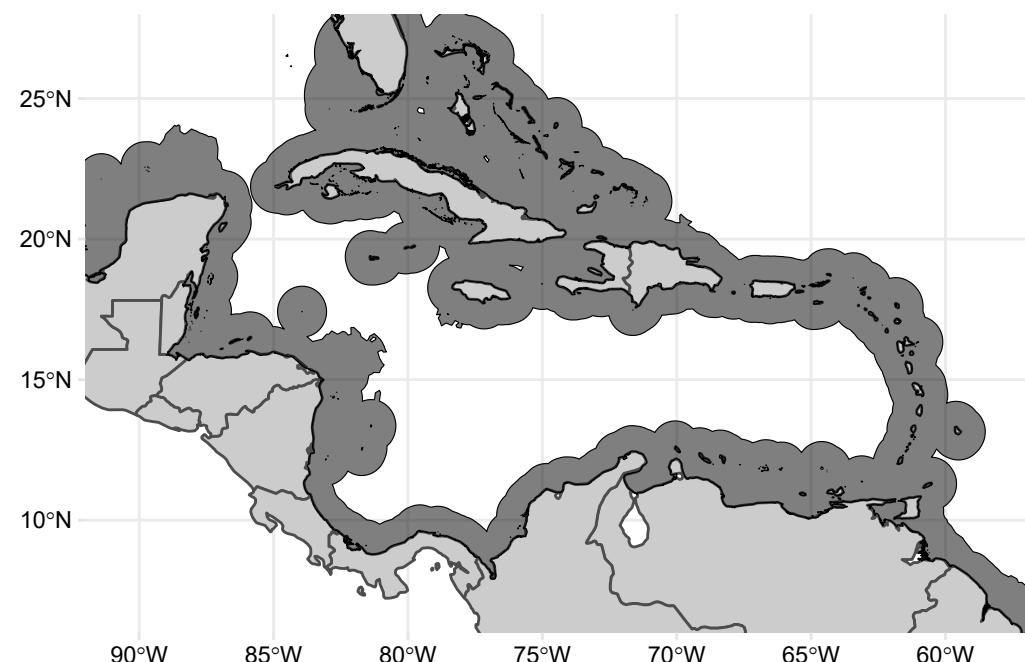
-1.5
-1.7
-1.9
-2.1

A

Mutton Snapper

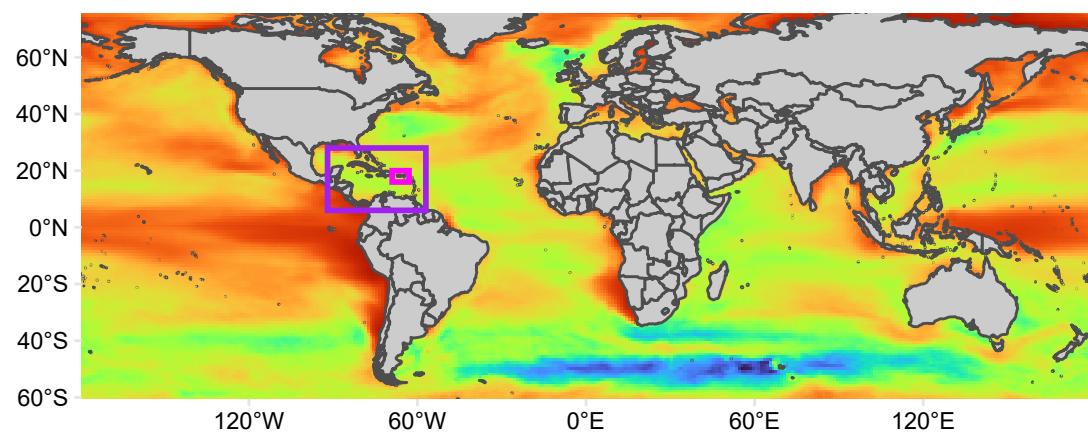


B



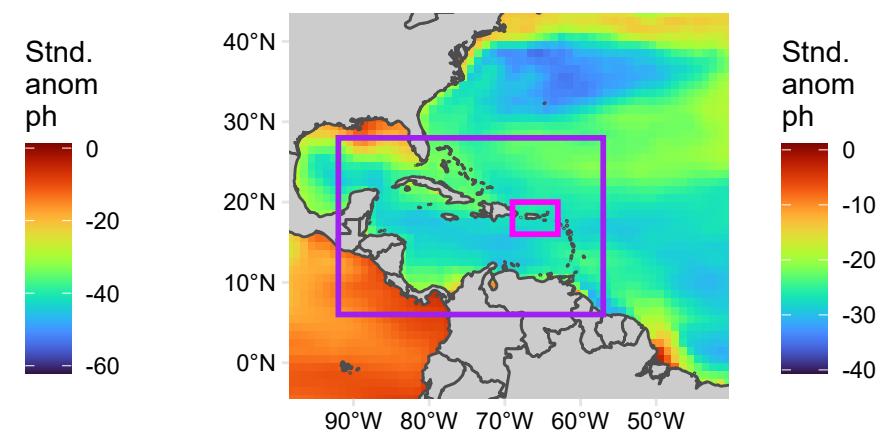
C

Global: ph



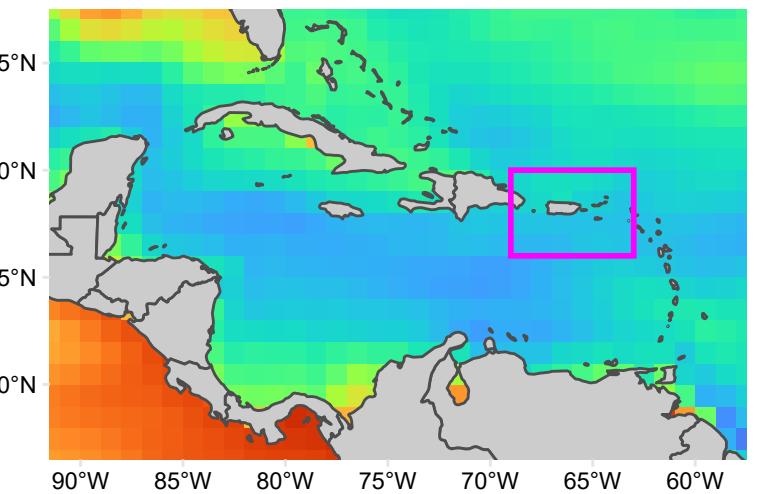
D

W. Atlantic: ph



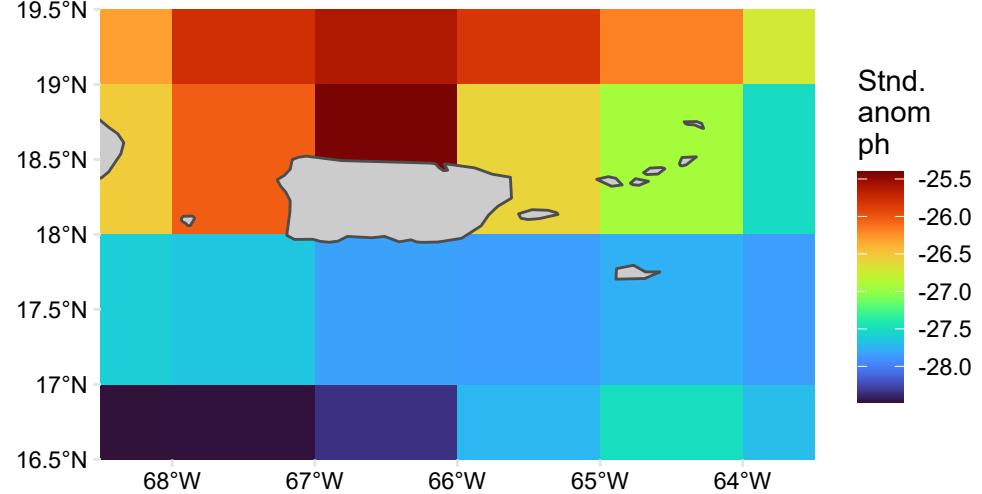
E

Caribbean Sea: ph



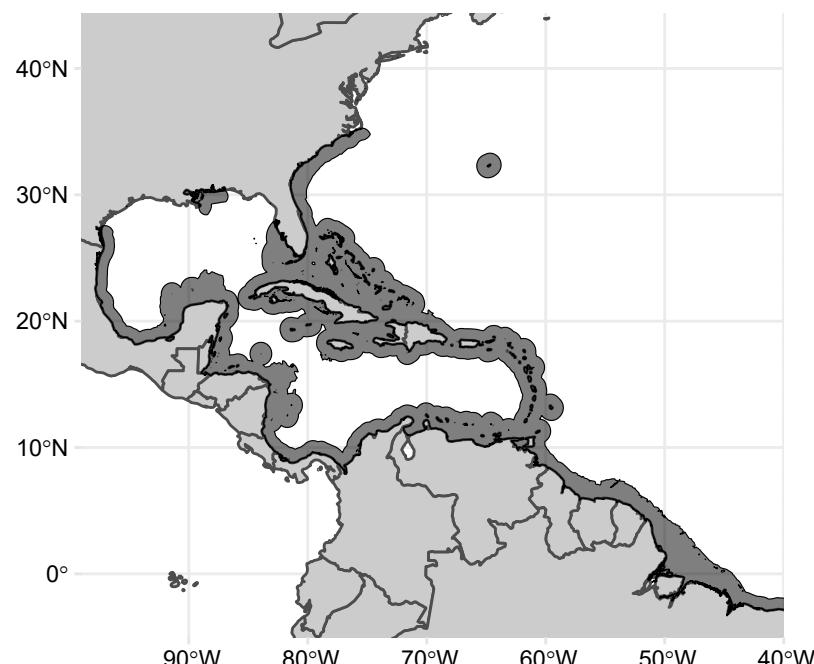
F

U.S. Caribbean: ph

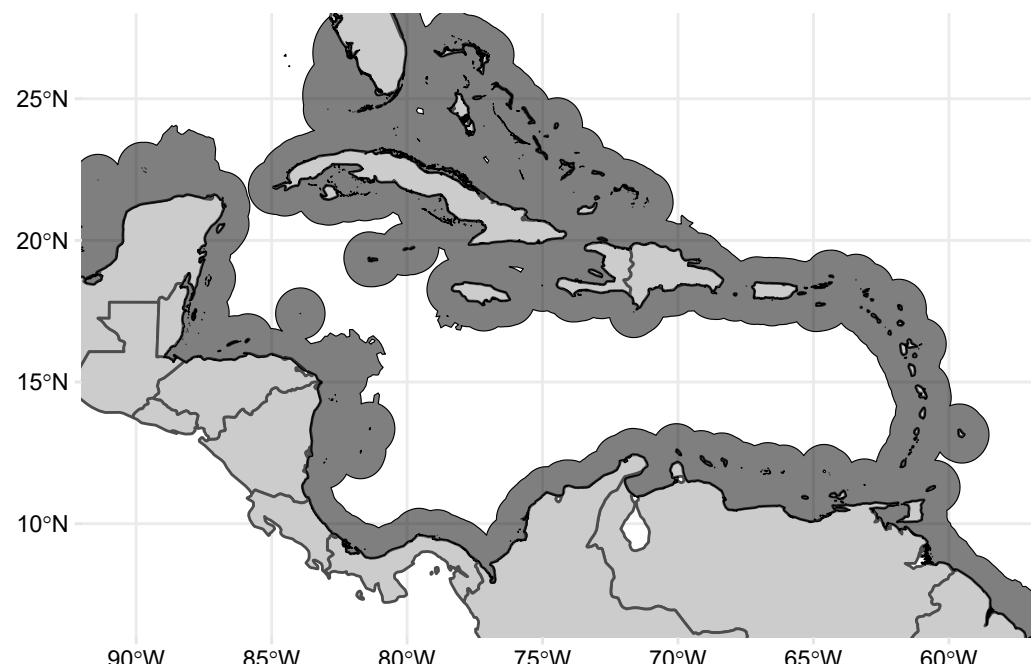


A

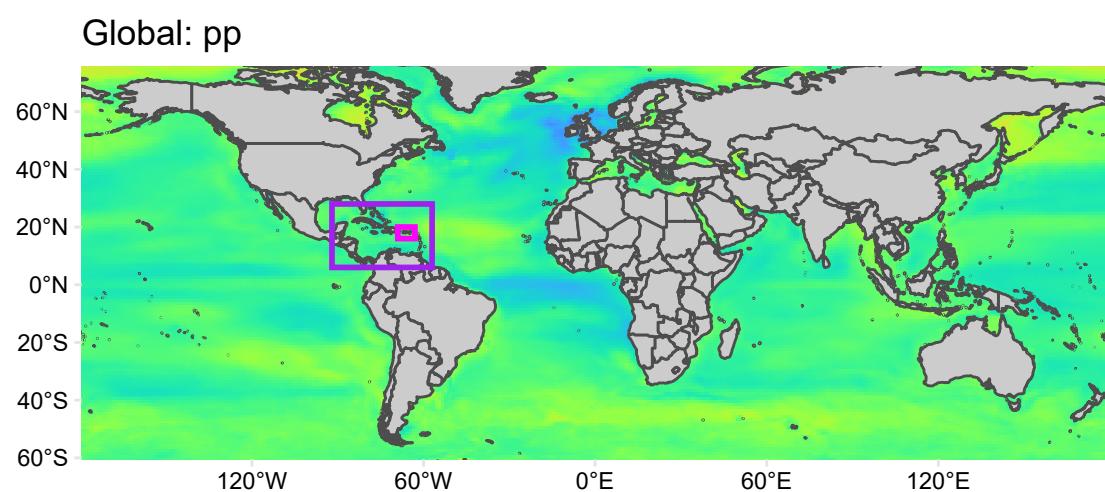
Mutton Snapper



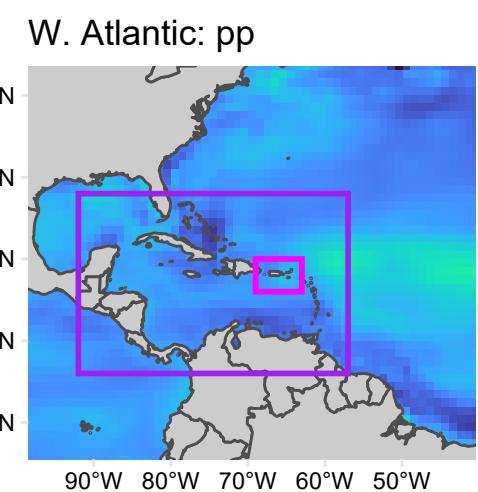
B



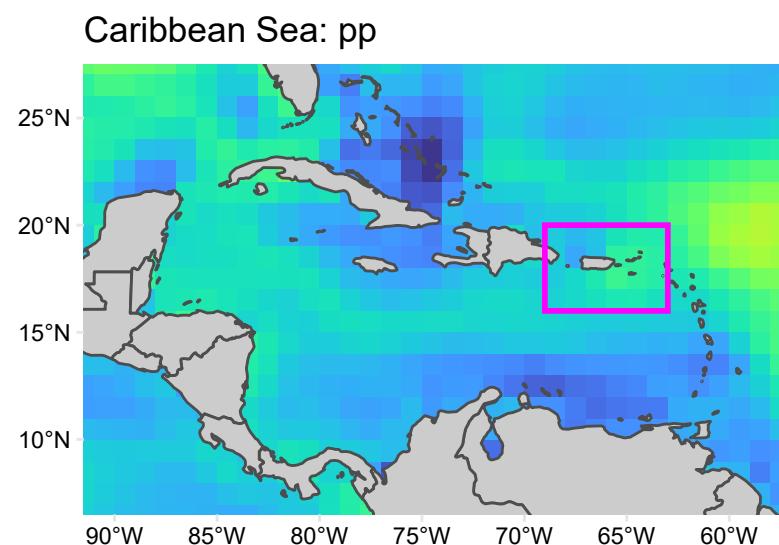
C



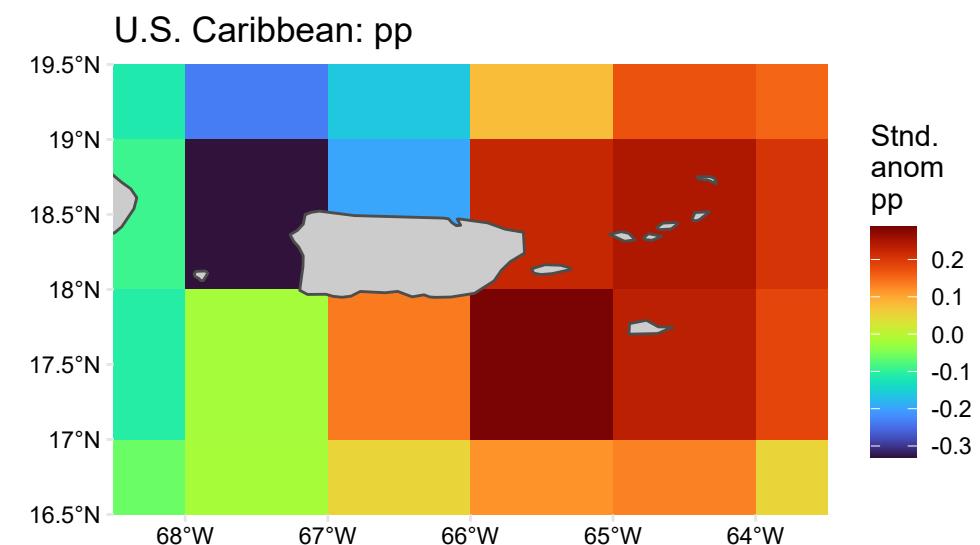
D



E

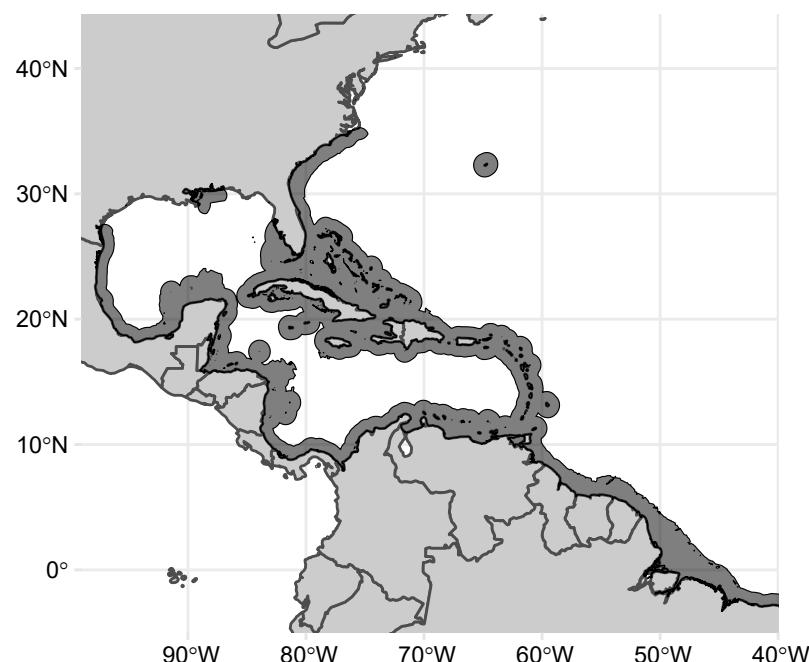


F

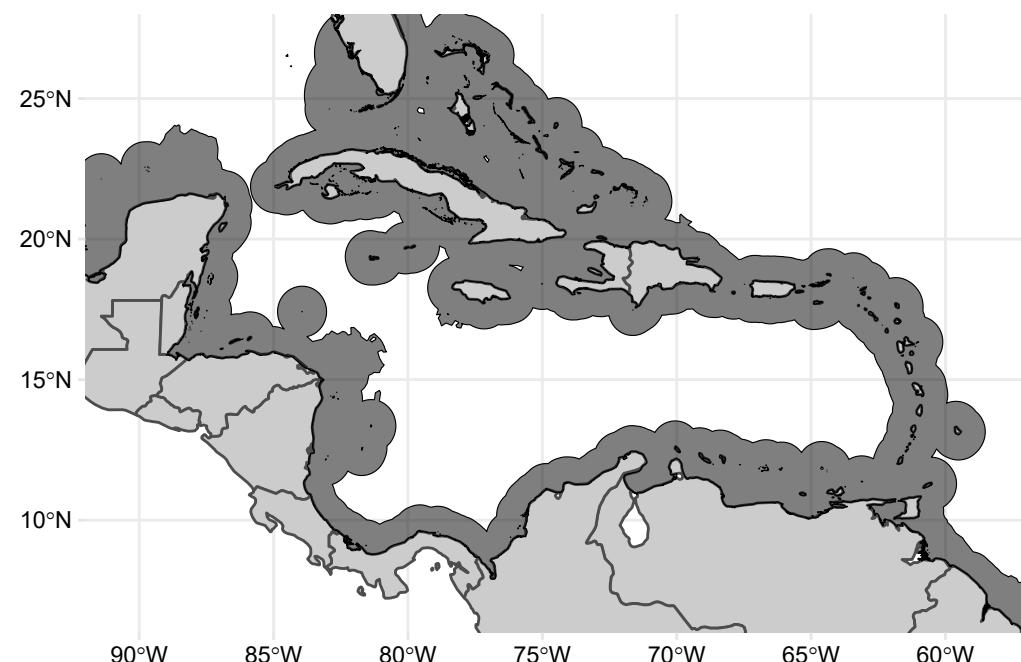


A

Mutton Snapper

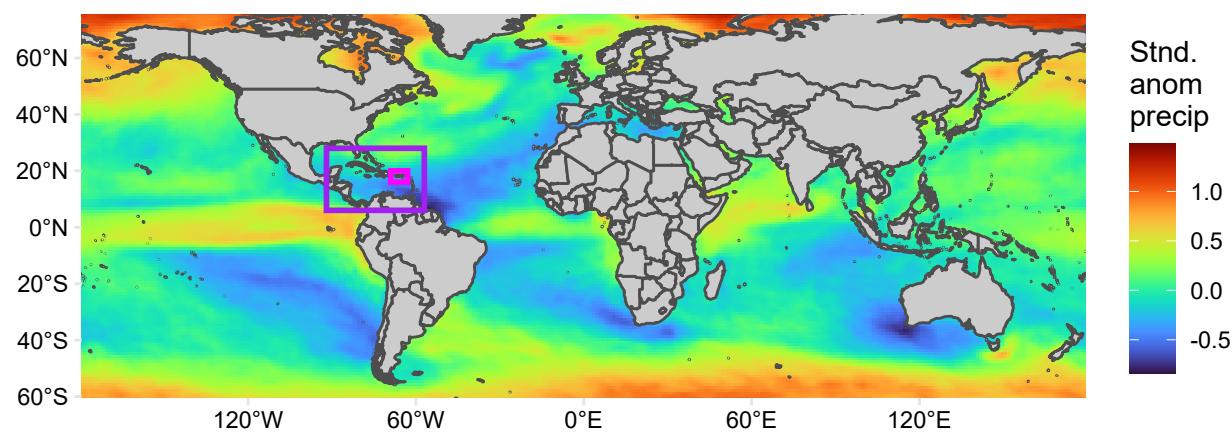


B



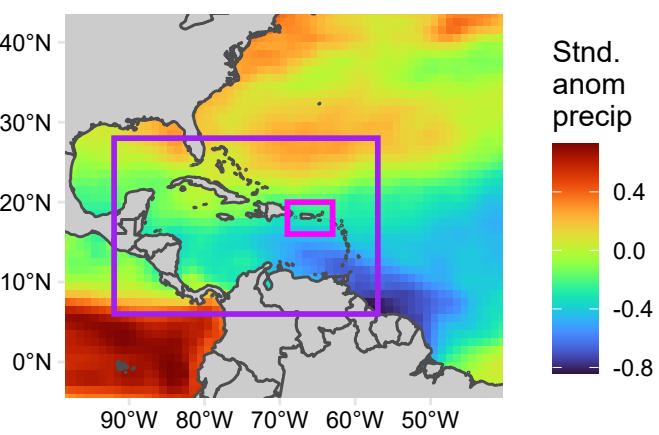
C

Global: precip



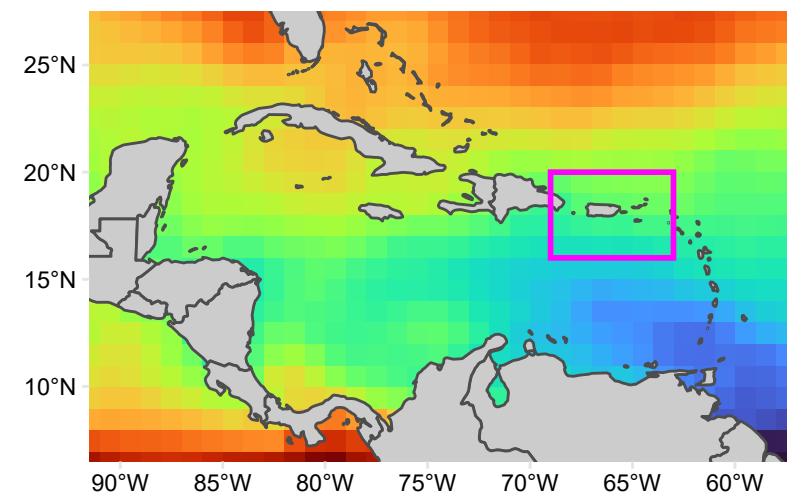
D

W. Atlantic: precip



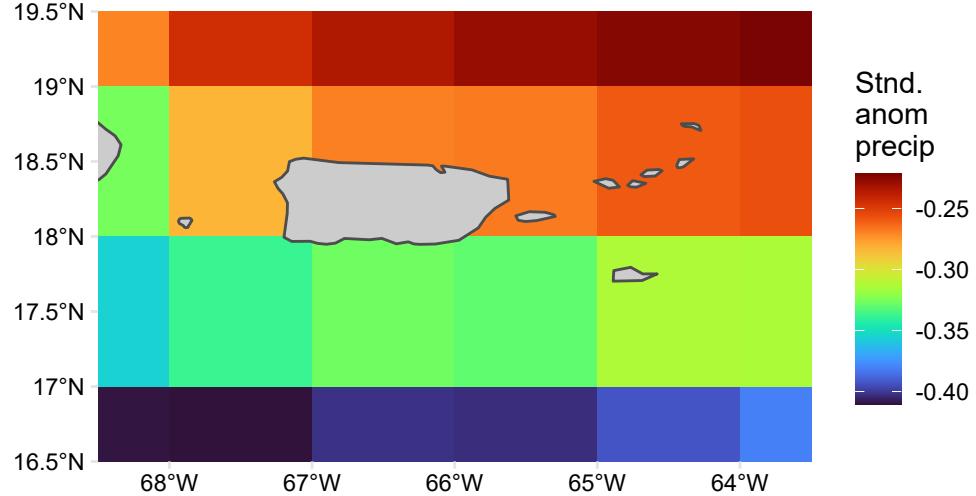
E

Caribbean Sea: precip



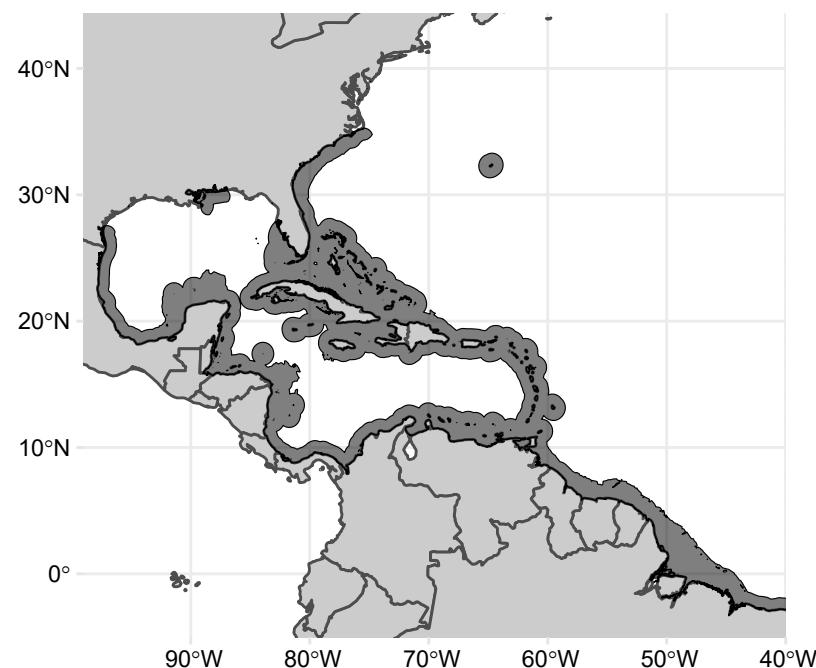
F

U.S. Caribbean: precip

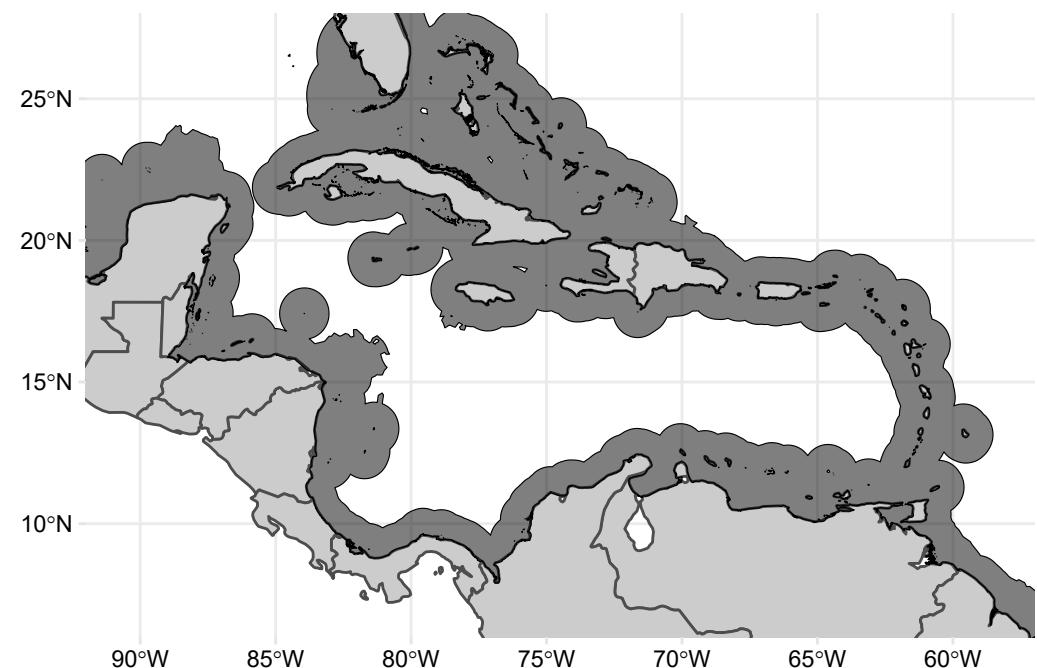


A

Mutton Snapper

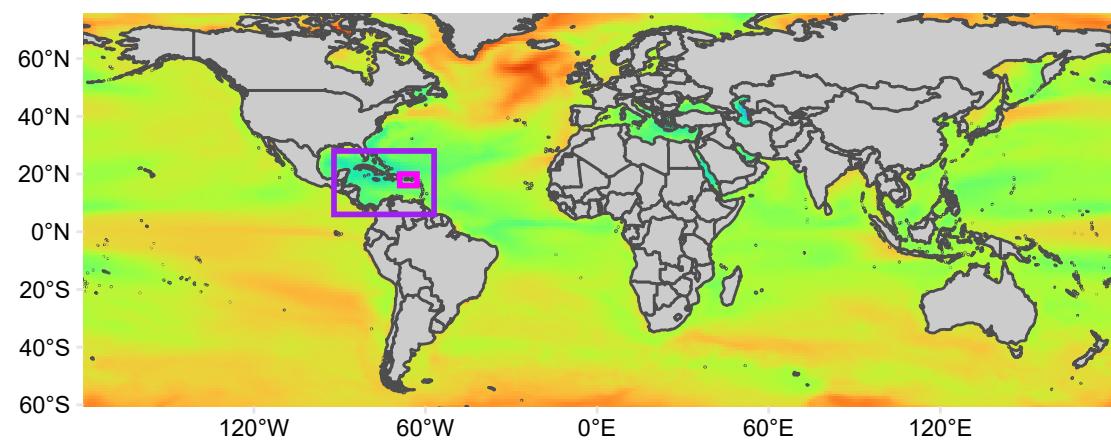


B



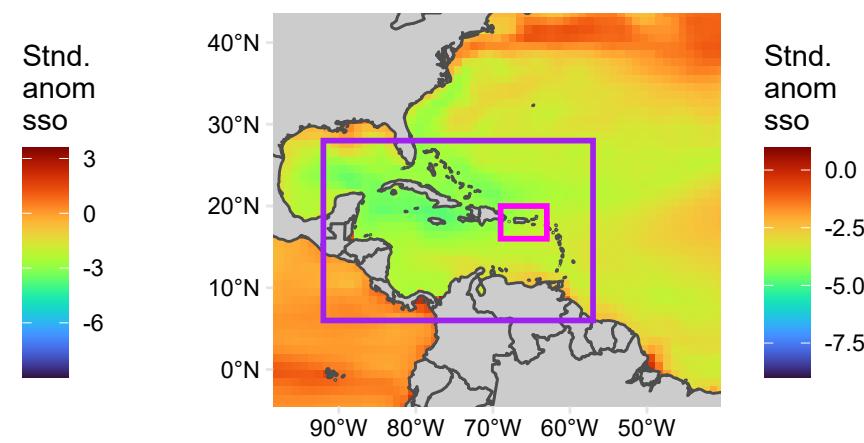
C

Global: sso



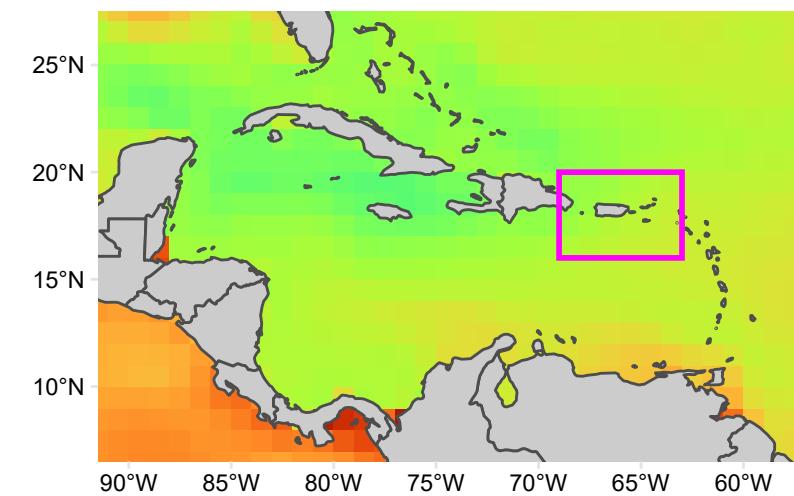
D

W. Atlantic: sso



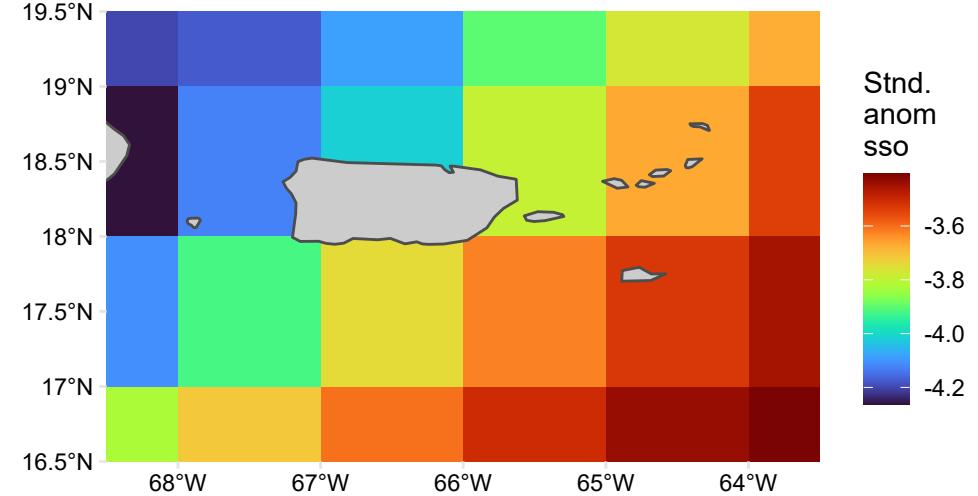
E

Caribbean Sea: sso



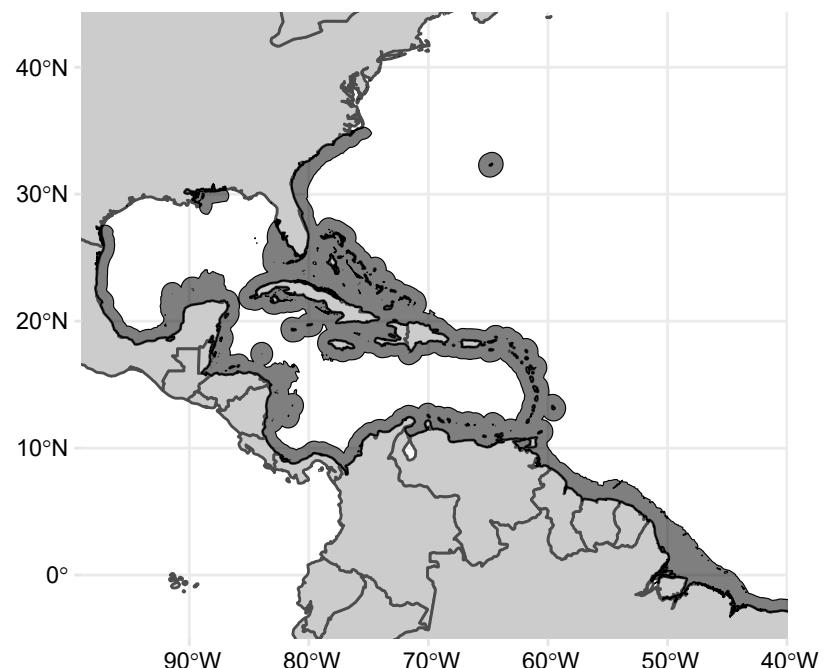
F

U.S. Caribbean: sso

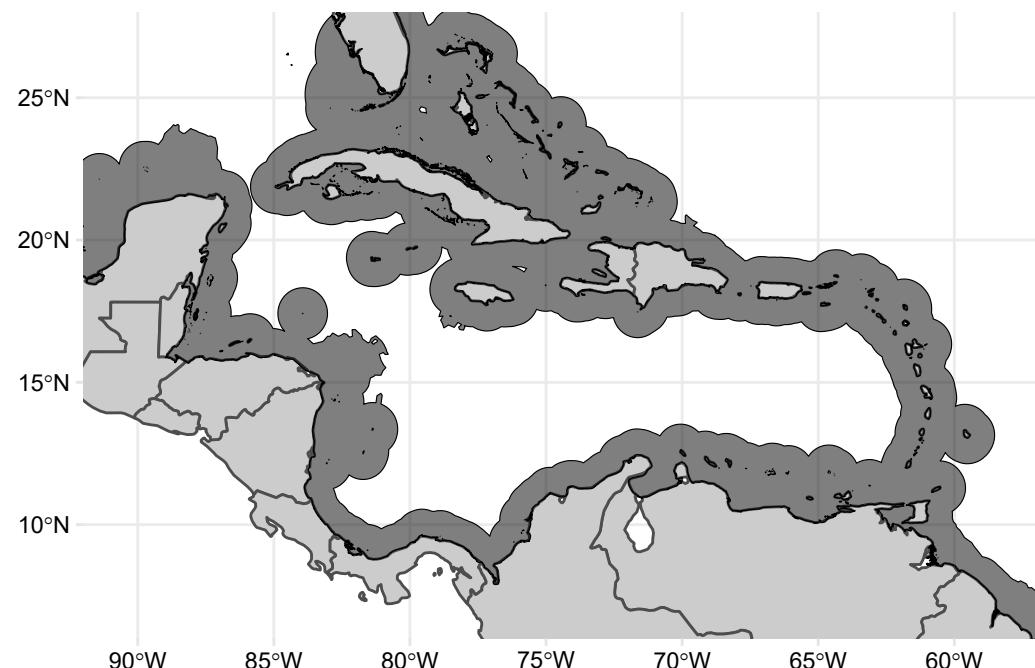


A

Mutton Snapper

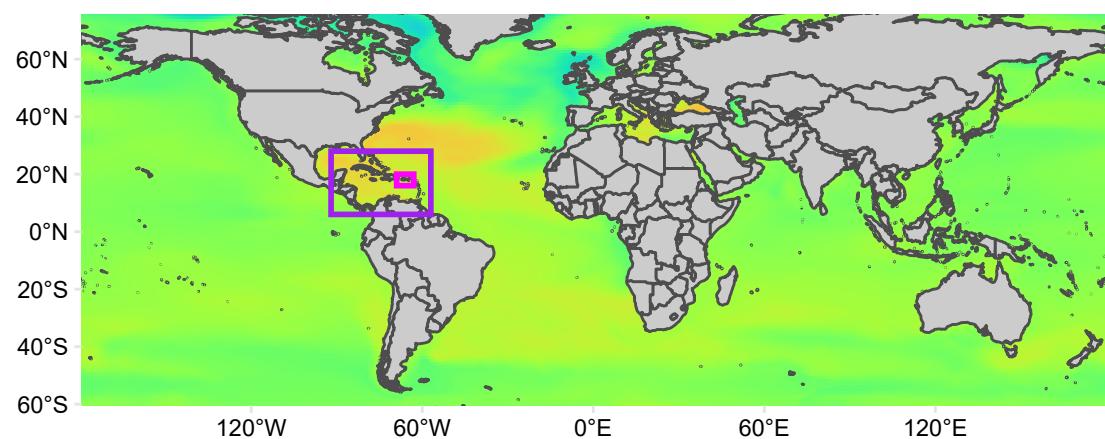


B



C

Global: sss

D

W. Atlantic: sss

A zoomed-in map of the Western Atlantic region, focusing on the Caribbean Sea and the Gulf of Mexico. The purple box from panel C is overlaid on the map, showing a strong positive salinity anomaly (red/orange colors) across the entire Caribbean basin.

E

Caribbean Sea: sss

A detailed map of the Caribbean Sea region. The purple box highlights the same area as in panels C and D, showing a very strong positive salinity anomaly (red colors) throughout the entire basin.

Stnd.
anom
sss

3
2
1
0
-1

F

U.S. Caribbean: sss

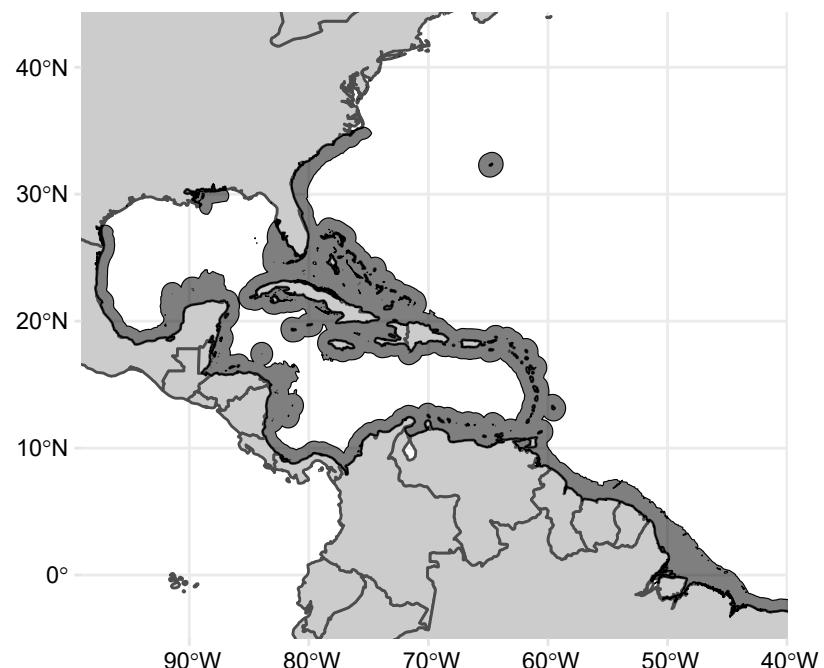
A highly detailed map of the U.S. Caribbean region, showing the distribution of salinity anomalies in the waters around the islands of Puerto Rico and the Virgin Islands. The purple box highlights the same area as in panels C, D, and E, showing a strong positive salinity anomaly (red colors) in the central Caribbean.

Stnd.
anom
sss

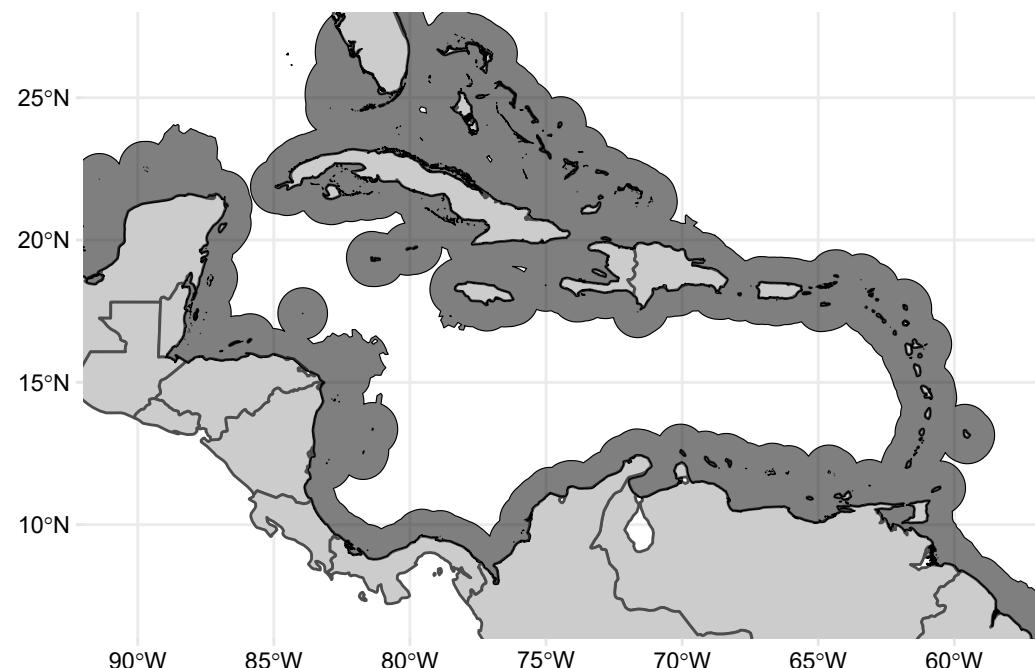
2.1
1.8
1.5

A

Mutton Snapper

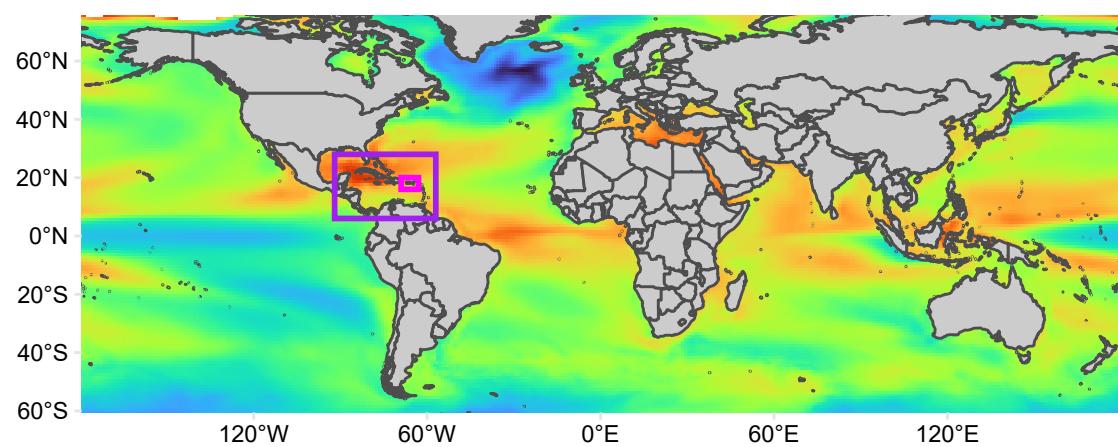


B



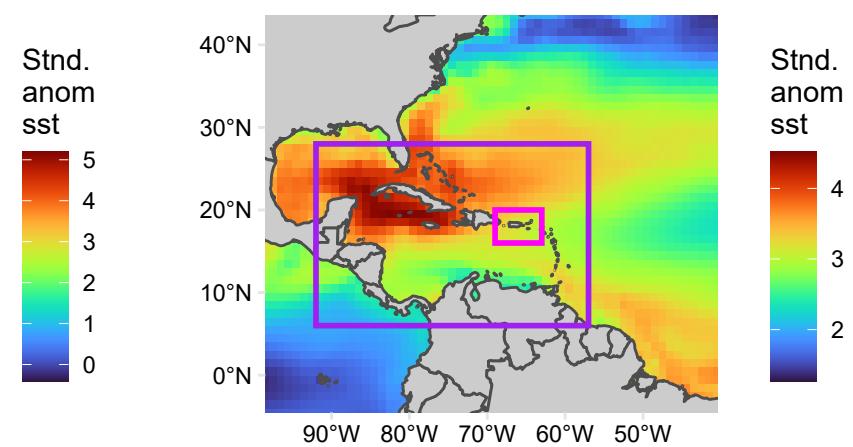
C

Global: sst



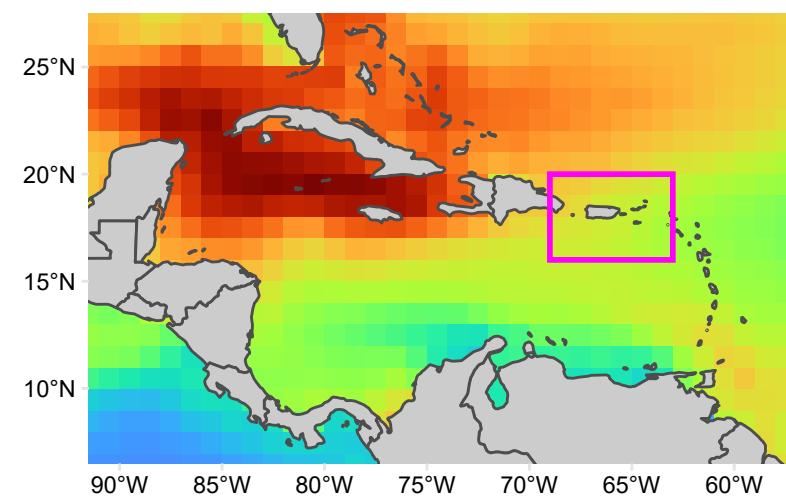
D

W. Atlantic: sst



E

Caribbean Sea: sst

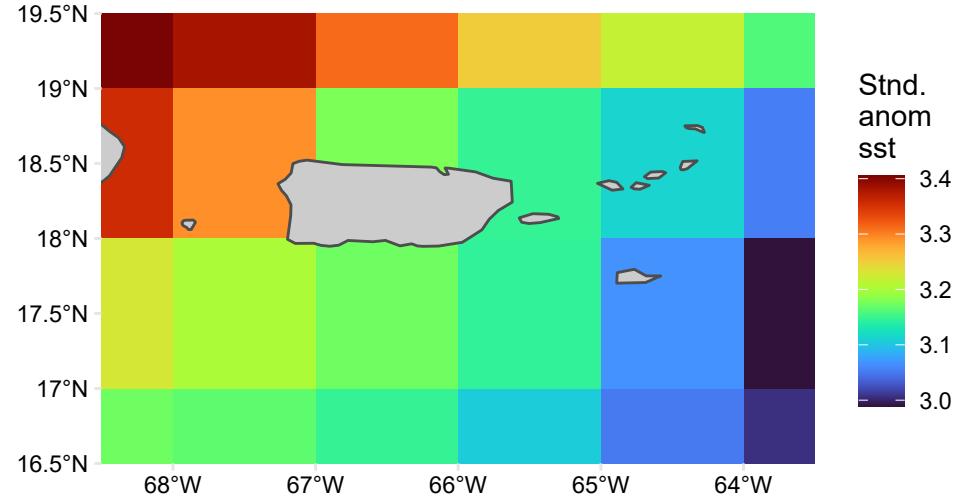


Stnd.
anom
sst

5
4
3
2
1
0

F

U.S. Caribbean: sst

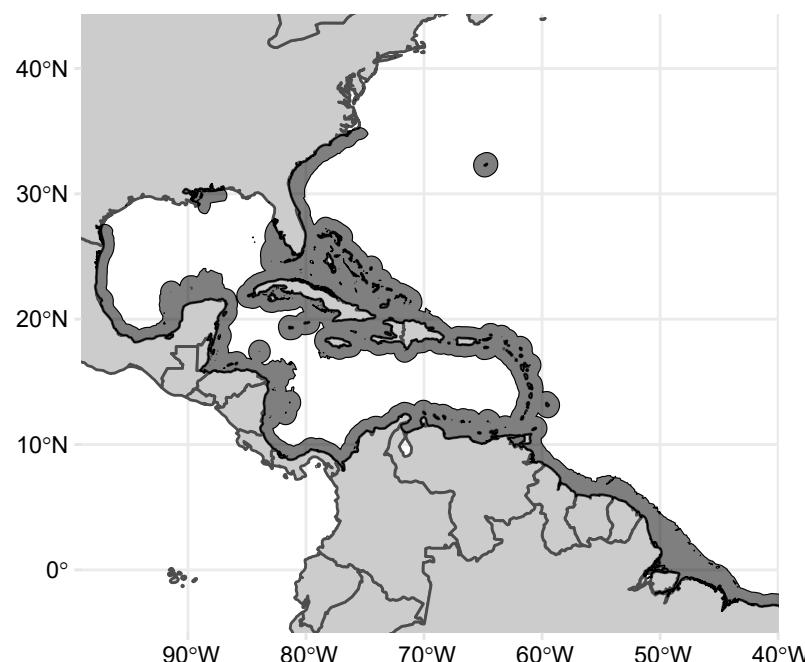


Stnd.
anom
sst

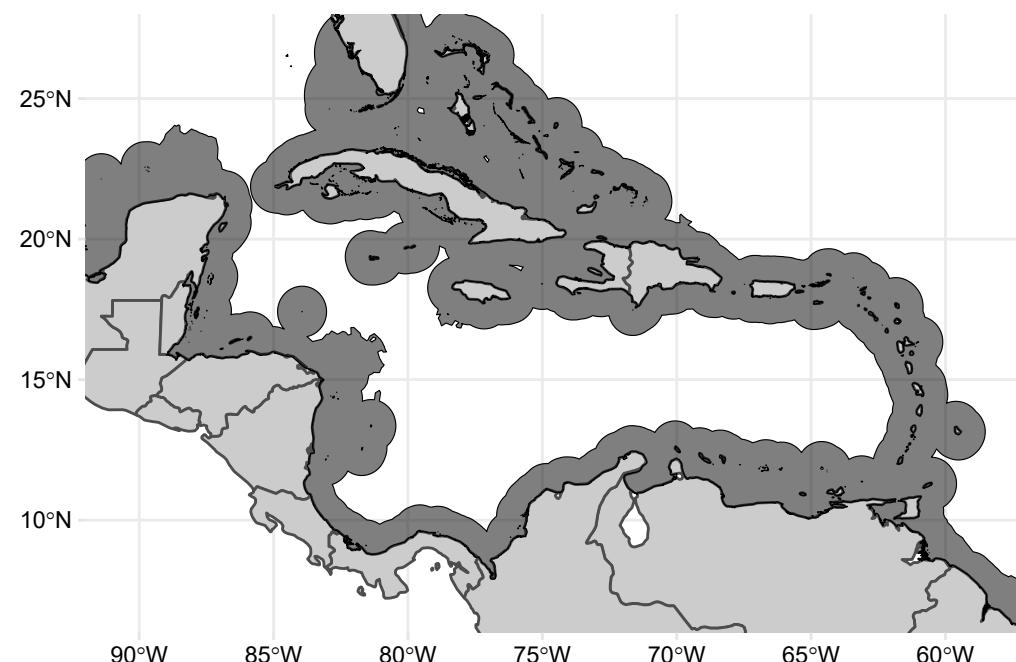
4.5
4.0
3.5
3.0
2.5
2.0
1.5

A

Mutton Snapper

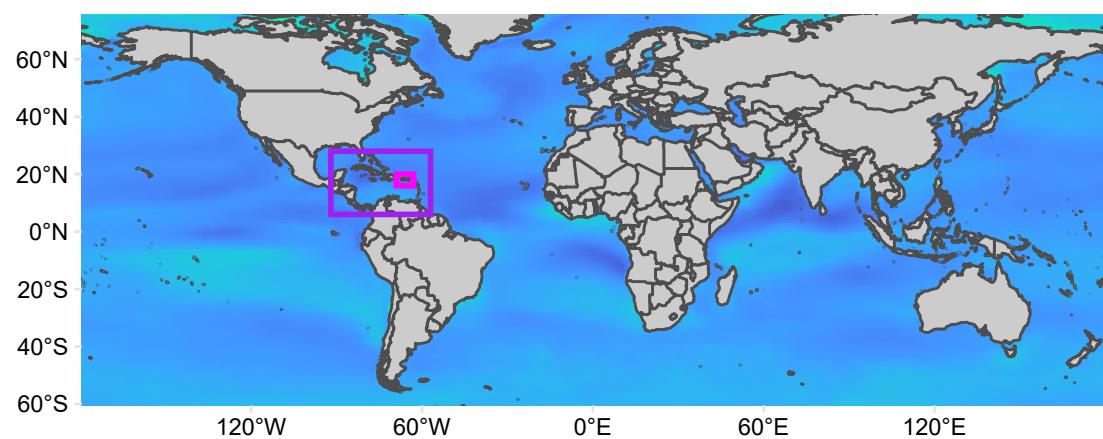


B



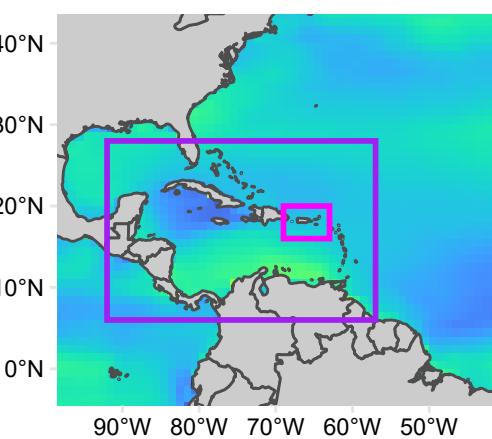
C

Global: swsms



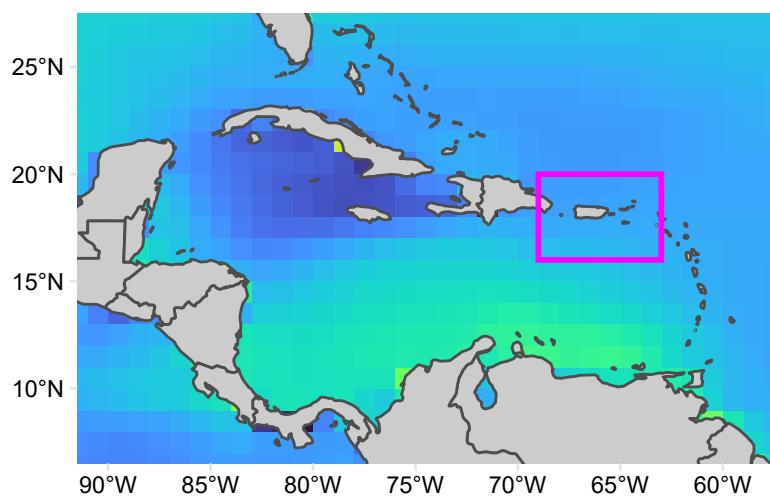
D

W. Atlantic: swsms



E

Caribbean Sea: swsms



F

U.S. Caribbean: swsms

