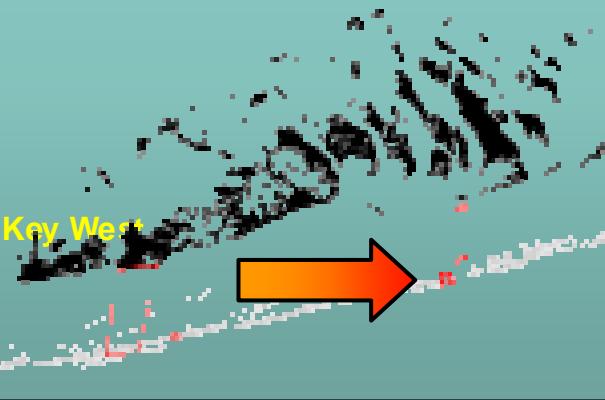


Area-based abundance surveys

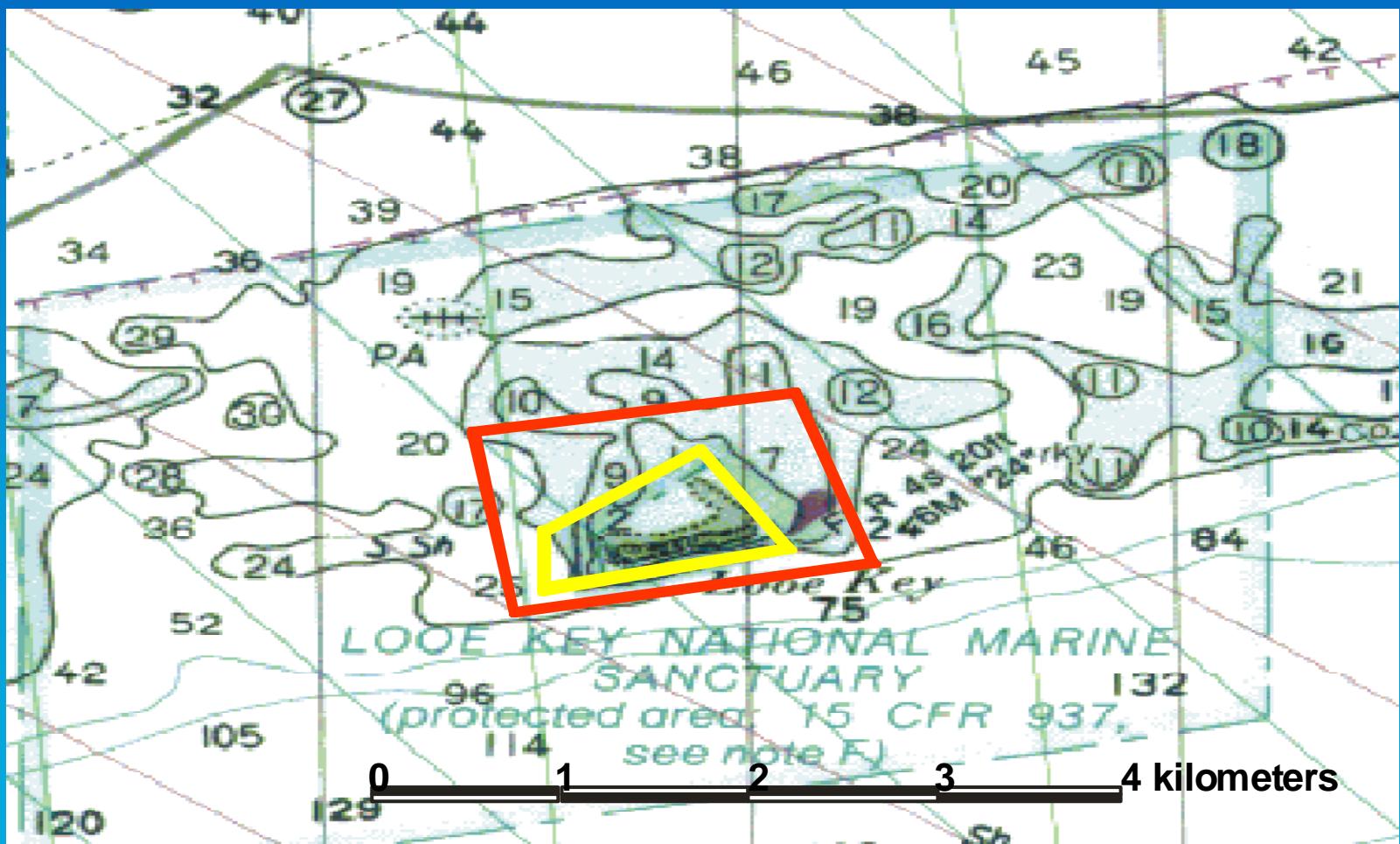


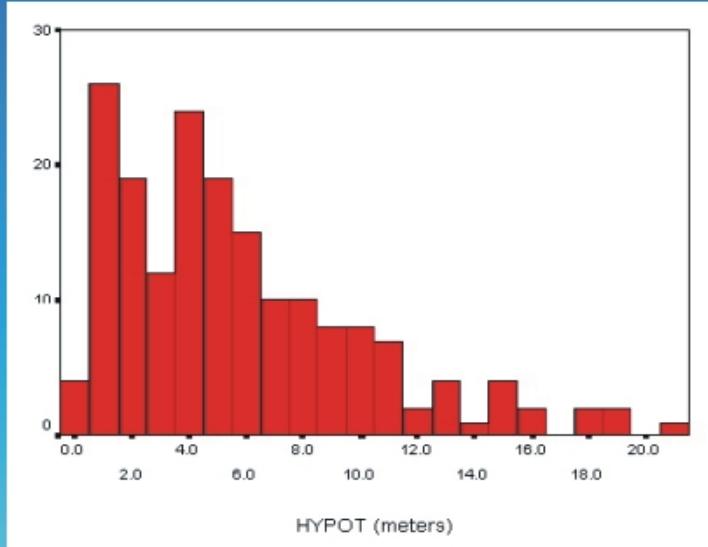
Area-based diver surveys for abundance estimates

| Project | Time frame | Region | Records, surveys, or transects | Notes |
|--------------|----------------|-----------------|--------------------------------------|---|
| Looe Key | 1987-1989 | Looe Key | >23K records 1,431 surveys | Bi-weekly 1 st yr/year round then Quad-weekly; areas measured |
| Tortugas2000 | June 2000 | Tortugas | 40 surveys | survey= 500m ² transects with habitat characterizations |
| Spree2002 | M-Jn 2002 | Tortugas | 188 surveys | survey=2*500m ² transects with habitat characterizations |
| Spree2004 | Jn-Jl 2004 | Tortugas | 703 transects | transect= 500m ² with habitat characterizations |
| Reserves | 2004 July 2004 | WSER Pelican | 80 transects | transect= 500m ² |



— Looe Key NMS Core Area
— Looe Key SPA

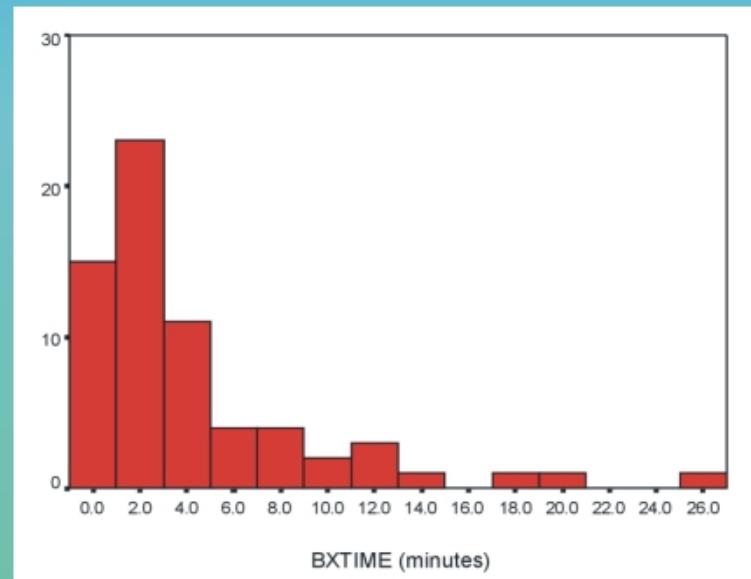




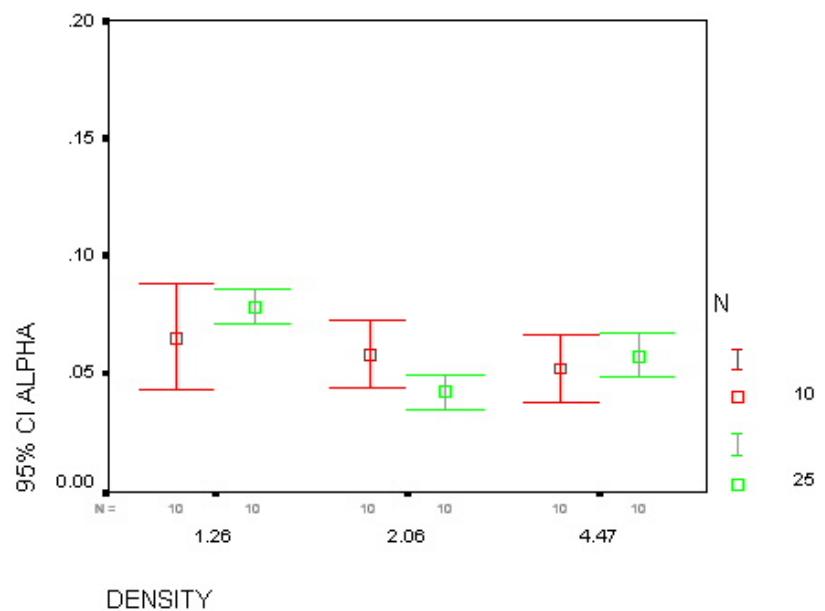
Distance between dens
at Looe Key (meters)



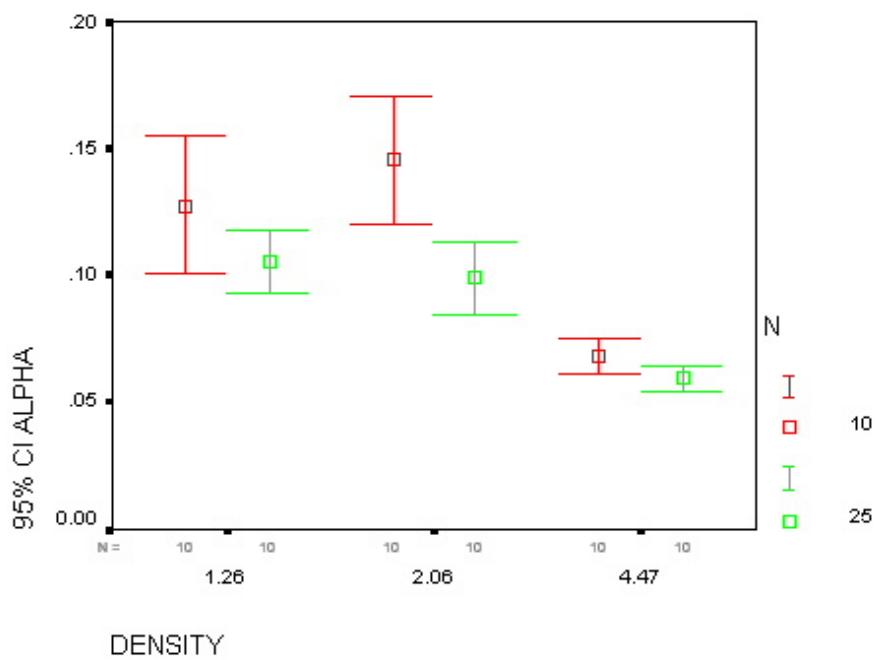
Time between dens
at WSER and Pelican
Shoals (minutes)



TRANSECT: 500 STYLE: R

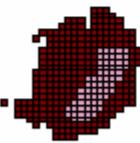
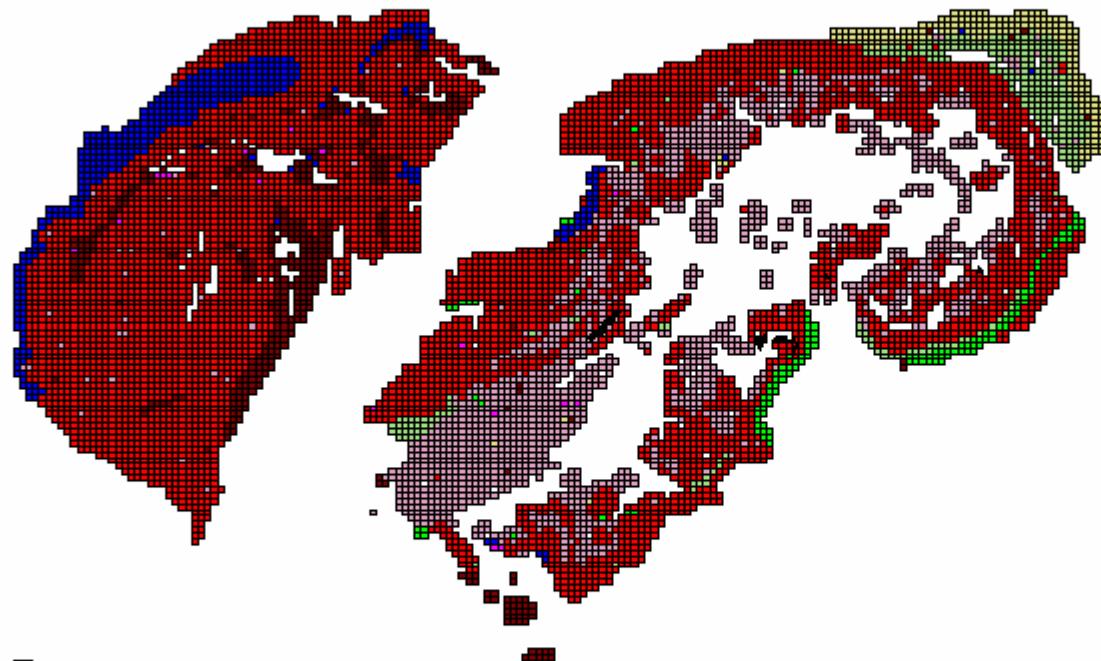


TRANSECT: 2025 STYLE: C



Tortugas portion of the habitat map

| Land24k |
|------------------------|
| LAND |
| WATER |
| Gridwithnurc.shp |
| Low-relief HB |
| Low-relief SG |
| Patchy HB in sand |
| High-relief SG |
| Pinnacle reef |
| Reef terrace |
| Medium reef |
| Rocky outcrops |
| Patch reef |
| Hard-bottom |
| Nearshore reef |
| Mid-channel patch reef |
| Back-reef/rubble |
| Offshore patch reef |
| High-relief SG |
| Low-relief HB |
| Low-relief SG |
| Patchy HB in sand |
| Innerline reef |



0

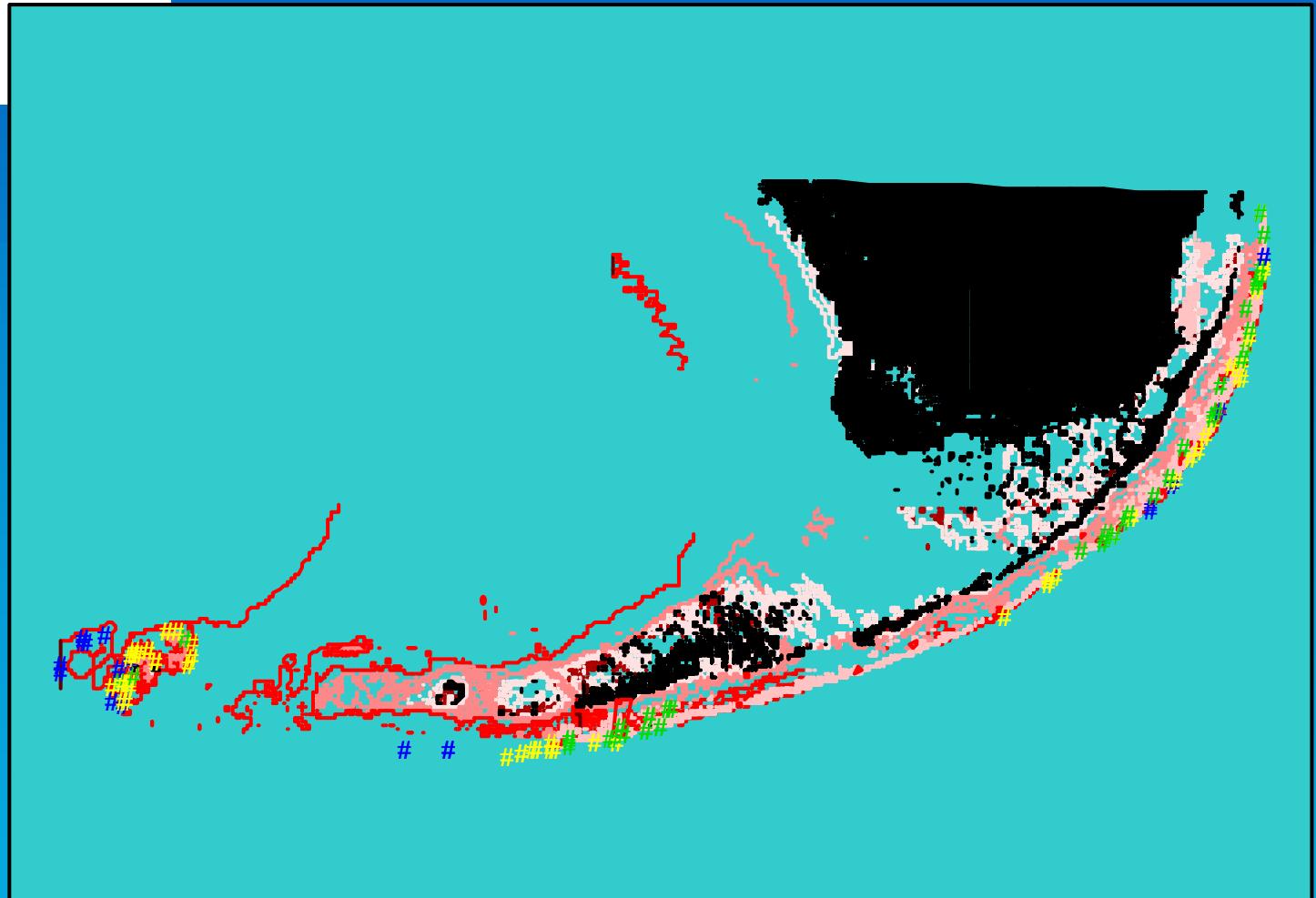
20

40 Kilometers



Location of Team Lobster dives (2002)

Depth
0-30ft
30-60ft
60-90ft











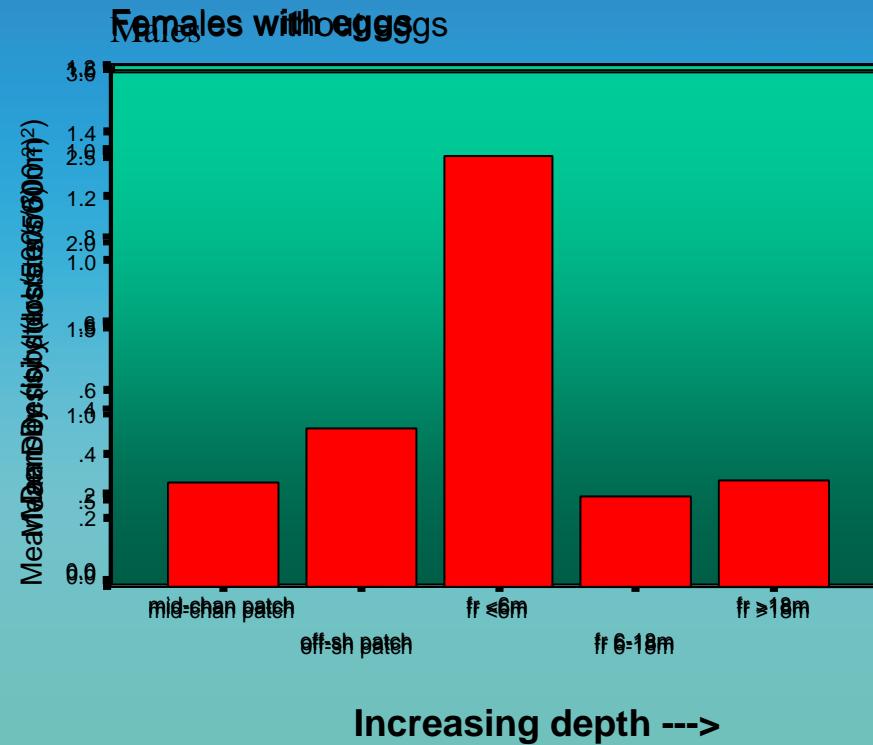








Densities of lobsters in different habitats in the Florida Keys



Marine Reserves 2004 area based surveys

