

## *Squalus cubensis* Reproduction Dataset

This document is meant to serve as a reference for the file structure of the dataset provided from Mississippi Laboratories. Data included is limited to the United States waters of the Gulf of Mexico, collected primarily from NMFS fishery independent surveys and a few specimens obtained from a fish house in Panama City, FL.

Questions concerning the original data, sampling design and its use may be directed to:

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### Dataset

There are 7 sheets in the dataset 'Squalus cubensis (1)'. They provide life history data for 1) mature females, 2) immature females, 3) females, 4) embryos, 5) males, 6) mature males and 7) combined length and weight.

### Dataset Linkage

Files can be linked by the unique specimen number.

### Notes

Specimens were obtained opportunistically and may not represent all size/sex individuals from all months of the year.

### Dataset Linkage

Mississippi Laboratories  
3209 Frederic St.  
Pascagoula, MS 39567

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## Explanation of Variables 'Mature Females'

Specimen Number – unique identifier for each specimen

Genus

Species

Date – date captured

Month – month captured

Lat – decimal degrees latitude at capture site

Lon – decimal degrees longitude at capture site

Depth – depth captured, meters

PCL – precaudal length, mm

FL – fork length, mm

TL – natural total length, mm

STL – stretch total length, mm

Weight – whole weight in kg

Sex – male or female

Maturity – 1 = immature, 2 = mature

Bin maturity – 0 = immature, 1 = mature

Pregnant – yes or no

Liver weight – in grams

Right uterus – width in mm (if not pregnant)

Right oviducal – width in mm

Ovary weight – in grams

# Vitellogenic – number of vitellogenic follicles in right ovary

# Selected – number of selected follicles in right ovary

Max Ova diameter – diameter of largest follicle in right ovary

# Atretic – number of atretic follicles in right ovary

Sel 1-6 – diameter of 6 selected follicles in right ovary

Total pups – number of embryos both uteri

Pups left – number of embryos in left uterus

Pups right – number of embryos in right uterus

Samples taken – May include, vertebrae, second dorsal spine, fin clip, stomach, entire reproductive system, skin/denticle sample, liver, muscle tissue

Comment – any additional observations.

Explanation of Variables Females'

Specimen Number – unique identifier for each specimen

Genus

Species

Date – date captured

Month – month captured

Lat – decimal degrees latitude at capture site

Lon – decimal degrees longitude at capture site

Depth – depth captured, meters

PCL – precaudal length, mm

FL – fork length, mm

TL – natural total length, mm

STL – stretch total length, mm

Weight – whole weight in kg

Sex – male or female

Maturity – 1 = immature, 2 = mature

Bin maturity – 0 = immature, 1 = mature

Pregnant – yes or no

Liver weight – in grams

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Ovary weight – in grams

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Sel 1-6 – diameter of 6 selected follicles in right ovary

Total pups – number of embryos both uteri

Pups left – number of embryos in left uterus

Pups right – number of embryos in right uterus

Samples taken – May include, vertebrae, second dorsal spine, fin clip, stomach, entire reproductive system, skin/denticle sample, liver, muscle tissue

Comment – any additional observations.

Explanation of Variables Immature Females'

Specimen Number – unique identifier for each specimen

Genus

Species

Date – date captured

Month – month captured

Lat – decimal degrees latitude at capture site

Lon – decimal degrees longitude at capture site

Depth – depth captured, meters

PCL – precaudal length, mm

FL – fork length, mm

TL – natural total length, mm

STL – stretch total length, mm

Weight – whole weight in kg

Sex – male or female

Maturity – 1 = immature, 2 = mature

Bin maturity – 0 = immature, 1 = mature

Pregnant – yes or no

Liver weight – in grams

Right uterus – width in mm (if not pregnant)

Right oviducal – width in mm

Ovary weight – in grams

# Vitellogenic – number of vitellogenic follicles in right ovary

# Selected – number of selected follicles in right ovary

Max Ova diameter – diameter of largest follicle in right ovary

# Atretic – number of atretic follicles in right ovary

Sel 1-6 – diameter of 6 selected follicles in right ovary

Total pups – number of embryos both uteri

Pups left – number of embryos in left uterus

Pups right – number of embryos in right uterus

Samples taken – May include, vertebrae, second dorsal spine, fin clip, stomach, entire reproductive system, skin/denticle sample, liver

Comment – any additional observations.

Explanation of Variables ‘Embryos’

Station/Source – links to mature female

Genus

Species

Number of pups – total number of embryos for that female

Pups rt – number of embryos right uterus

PCL – precaudal length mm

FL – fork length mm

TL – natural total length mm

STL –stretch total length mm

Weight – grams

Comment – any other observations

Explanation of Variables ‘Males’

Specimen Number – unique specimen number for that individual

Genus

Species

Date – date captured

Month – month captured

Latitude – decimal degrees latitude at capture site

Lon – decimal degrees longitude at capture site

Depth – depth in meters at capture site

PCL – precaudal length mm

FL – fork length mm

TL – natural total length mm

STL – stretch total length mm

Weight – whole weight kg

Maturity – 1 = immature, 2 = mature

Bin Mat – 0 = immature, 1 = mature

Liver wt – liver weight, grams

COL – clasper outside length

CIL – clasper inside length

Calcified? – are claspers fully calcified, yes or no

Rotate? – do claspers rotate 180 degrees, yes or no

Rhip opens? – does rhipidion open fully, yes or no

Siphon sacs? – do siphon sacs inflate fully, yes or no

Rt Testis L – length of right testis, mm

Rt Testis W – width of right testis, mm

Rt Testis Wt – weight of right testis, grams

Epidid Width – width of right epididymis, mm

Sperm? – seminal fluid present, yes or no



Samples taken – may include vertebrae, second dorsal spine, fin clip, muscle tissue, liver tissue, stomach, skin/denticle sample, complete reproductive system

Explanation of Variables ‘ Mature Males’

Specimen Number – unique specimen number for that individual

Genus

Species

Date – date captured

Month – month captured

Latitude – decimal degrees latitude at capture site

Lon – decimal degrees longitude at capture site

Depth – depth in meters at capture site

PCL – precaudal length mm

FL – fork length mm

TL – natural total length mm

STL – stretch total length mm

Weight – whole weight kg

Maturity – 1 = immature, 2 = mature

Bin Mat – 0 = immature, 1 = mature

Liver wt – liver weight, grams

COL – clasper outside length

CIL – clasper inside length

Calcified? – are claspers fully calcified, yes or no

Rotate? – do claspers rotate 180 degrees, yes or no

Rhip opens? – does rhipidion open fully, yes or no

Explanation of Variables ‘Combined L and W’

PCL – precaudal length mm

FL – fork length mm

TL – natural total length mm

STL – stretch total length mm

Weight – whole weight kg

Sex – male or female