

Speech

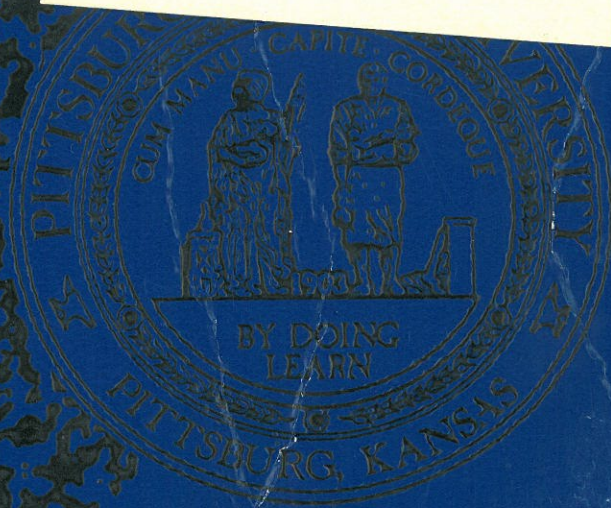
Aaron
Schnurbusch
1994

PITTSBURG

S^{en} (Man)

1994

TY



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Aaron Schwurbusch

Course: Ichtheology

Field Notebook: Contains specimens from Texas + Kansas.

Members of Texas Ichtheology Collection trip.

Daniel Albertini

Jack Bohannon

Diane Borovetz

James Doolin

Tom Hayes

Doug Jagels

Matt Kern

Peyton Lewman

Brent Luedke

Mark Maceri

John Murray

Ronald Payne

Chris Peterson

Aaron Schnurbusch

Andrea Taylor

Daniel Van Leeuwen

Elizabeth Hicks

George Thomas

Specimens in phylogenetic order :

Dasyatiformes

Dasyatidae

- 1 Dasyatis sabina (Atlantic stingray)

Lepisosteiformes

Lepisosteidae

- 2 Lepisosteus spatula (Alligator Gar)

- 3 Lepisosteus oculatus (Spotted Gar)

Clupeiformes

Clupeidae

- 4 Dorosoma cepedianum (Gizzard shad)

- 5 Brevoortia patronus (Gulf menhaden)

- 6 Sardinella aurita (Spanish Sardine)

- 7 Harengula jaguana (Scaled Sardine)

Notacanthiformes

Engraulidae

- 8 Anchoa mitchilli (Bay Anchovy)

- 9 Anchoa cubana (Cuban Anchovy)

Cypriniformes

Cyprinidae

- 10 Pimephales vigilax (Bullhead minnow)

- 11 Pimephales tenellus (Slim minnow)

- 12 Pimephales notatus (Bluntnose minnow)

- 13 Cyprinella Notropis lutrensis (Red shiner)

- 14 Cyprinella Notropis venusta (Blacktail shiner)

- 15 Notropis brazosensis (Brazos River shiner)

- 16 Notropis oxyrinchus (Sharnose shiner)

- 17 Opsopoeilus Notropis emiliae (Pugnose shiner)

- 18 Notropis heteralepis (Blacknose shiner)

- 19 Campostoma anomalum (Central stoneroller)
 20 Campostoma oligolepis (Largescale stoneroller)
 21 Notemigonus crysoleucas (Golden Shiner)
 22 Diionda episcopa (Roundnose minnow)

- Cypriniformes

Catostomidae

- 23 Carpiondes carpio (River carpsucker)
 24 Ictiobus cyprinellus (Bigmouth Buffalo)
 25 Erimyzon oblongus (Creek chubsucker)

Siluriformes

Ictaluridae

- 26 Ictalurus punctatus (Channel catfish)

Siluriformes

Ariidae

- 27 Arius felis (Hardhead Catfish)

Salmoniformes

Esocidae

- 28 Esox americanus (Redfin pickerel)

Gadiiformes

(Gadidae)

29

Urophycis floridana

(Southern hake)

Lophiiformes

Antennariidae

30

Histrio histrio (Sargassumfish)

Cyprinodontiformes

Cyprinodontidae

31

Fundulus notatus

(Black stripe topminnow)

32

Fundulus olivaceus

(Black spotted topminnow)

33

Fundulus similis

(Longnose Killifish)

34

Fundulus grandis

(Gulf Killifish)

Cyprinodontiformes

Poeciliidae

35

Gambusia affinis

(Mosquitofish)

Atheriniformes

Atherinidae

36

Labidesthes sicculus

(Brooke silverside)

37

Membras martinica

(Rough silverside)

38

Menidia peninsulae

(Tidewater silverside)

Gasterosteiformes

Syngnathidae

~~Gambusia affinis~~

(Mos)

39

Hippocampus erectus

(Lined seahorse)

40

Syngnathus louisianae

(Chain pipefish)

41

Hippocampus zosterae

(Dwarf pipefish)

42 Syngnathus floridae (Dusky Pipefish)

43 Syngnathus scovelli (Gulf pipefish)

Perciformes

Centrarchidae

44 Lepomis gibbosus (Pumpkinseed)

45 Lepomis cyanellus (Green sunfish)

46 Lepomis macrochirus (Bluegill)

47 Lepomis marginatus (Dollar sunfish)

48 Lepomis gulosus (Wormmouth)

49 Lepomis punctatus (Spotted sunfish)

50 Lepomis humilis (Orangespotted sunfish)

51 Pomoxis annularis (White crappie)

52 Elassoma zonatum (Banded pygmy sunfish)

Perciformes

Percidae

53 Percina sciera (Dusky darter)

54 Etheostoma zonale (Banded darter)

55 Etheostoma chlorosomum (Bluntnose darter)

Perciformes

Sparidae

56 Logodon rhomboides (Pinfish)

57 Archosargus probatocephalus (Sheepshead)

Perciformes

Sciaenidae

- 58 Stellifer lanceolatus (Star drum)
59 Pogonias cromis (Black drum)
60 Cynoscion nebulosus (Spotted seatrout)
61 Menticirrhus americanus (Southern kingfish)

Perciformes

Mugilidae

- 62 Mugil cephalus (Striped mullet)
63 Mugil curema (White mullet)

Perciformes

Polynemidae

- 64 Polydactylus octonemus (Atlantic threadfin)

Perciformes

Clividae

- 65 Labrisomus nuchipinnus (Fairy Blenny)

Perciformes

Bleenniidae

- 66 Scartella cristata (Molly Miller)

Perciformes

Gobiidae

- 67 Bathygobius soporator (Frillfin goby)
68 Gobionellus shufeldti (Freshwater goby)
69 Gobiosoma bosai (Naked goby)
70 Gobiosoma robustum (Cade goby)

Chronological description of collection sites + # of specimens taken:

3-19-94 Jar #1 Sulphur Creek, Texas. Habitat: Stream

32	<u>Pimephales vigilax</u>	Bullhead minnow
1	<u>Lepomis macrochirus</u>	Bluegill
42	<u>Notropis lutrensis</u>	Red shiner
2	<u>Lepomis cyaneus</u>	Green sunfish

Jar #2 South Sulphur River 16 miles north of Sulphur Springs
Texas - Hopkins Co. Habitat: stream

12	<u>Gambusia affinis</u>	Mosquitofish
1	<u>Elassoma zonatum</u>	Banded Pygmy sunfish
10	<u>Lepomis marginatus</u>	Dollar Sunfish
1	<u>Pomoxis annularis</u>	White crappie
2	<u>Lepomis cyaneus</u>	Green sunfish
7	<u>Lepomis macrochirus</u>	Bluegill

3-19 Jar #3 Sabine River, Texas. Wood Co. Habitat: River

1	<u>Esox americanus</u>	Redfin pickerel
2	<u>Lepomis marginatus</u>	Dollar sunfish
1	<u>Notropis venustus</u>	Blacktail shiner
1	Slough darter	<u>Etheostoma gracile</u>
1	<u>Erimyzon oblongus</u>	Creek chubsucker
2	<u>Lepomis humilis</u>	Orangespotted sunfish
1	<u>Etheostoma chlorosomum</u>	Bluntnose darter
3	<u>Pimephales vigilax</u>	Bullhead minnow
1	Blacknose shiner	<u>Notropis heterolepis</u>
4	<u>Notropis lutrensis</u>	<u>Notropis lutrensis</u>

3-20 Jar #4 Navasota River. 5 mi. south of Marquez Tx. Habitat: River

2	<u>Labidesthes sicculus</u>	Brooke silverside
2	<u>Gambusia affinis</u>	Mosquitofish
5	<u>Pimephales vigilax</u>	Bullhead minnow
16	<u>Notropis lutrensis</u>	Red shiner
1	<u>Percina sciera</u>	Dusky darter
1	<u>Lepomis macrochirus</u>	Bluegill

3-20 Jar #5 Little Brazos River, 6mi. southwest of Bryan, Tx. Brazos Co.

Habitat: River

1	<u>Lepomis cyarellus</u>	Green sunfish
1	<u>Lepomis punctatus</u>	spotted sunfish
1	<u>Pimephales vigilax</u>	Bullhead minnow
2	<u>Ictalurus punctatus</u>	Channel catfish
1	<u>Fundulus notatus</u>	Blackstripe topminnow
1	<u>Fundulus olivaceus</u>	Blackspotted topminnow
1	<u>Carpiodes carpio</u>	River carpsucker
12	<u>Notropis brazosensis</u>	Brazos River shiner
12	<u>Notropis lutrensis</u>	Red shiner
1	<u>Lepomis marginatus</u>	Dollar sunfish
16	<u>Notropis venustus</u>	Blacktail shiner
2	<u>Notropis oxyrinchus</u>	Sharnose shiner
8	<u>Diada episcopa</u>	Roundnose shiner

3-21 Jar #6 Hoppers Landing 4mi. north of Aransas Nat. Wildlife
Refuge, Refugio Co. off Hwy 239. Habitat: Bay area.

9	<u>Cynoscion nebulosus</u>	Spotted seatrout
3	<u>Gobiosoma bosai</u>	Naked goby
7	<u>Lagodon rhomboides</u>	Pinfish
4	<u>Archosargus probatocephalus</u>	Sheepshead minnow
34	<u>Pogonias cromis</u>	Black drum
32	<u>Stellifer lanceolatus</u>	Star drum
9	<u>Anchoa mitchilli</u>	Bay Anchovies
1	<u>Fundulus grandis</u>	Gulf killifish
1	<u>Mugil cephalus</u>	Striped mullet
8	<u>Paralichthys albigutta</u>	Gulf flounders
1	<u>Brevoortia patronus</u>	Gulf menhaden
13	<u>Membras martinica</u>	Rough silverside
25	<u>Anchoa hepsetus</u>	Striped anchovy
8	<u>Mugil curema</u>	White mullet

3-21-94 Jar # 7 Corpus Bay, Texas, Aransas Co. Jar # 7 Jar # 7

1	<u>Archosargus probatocephalus</u>	Sheepshead minnow	
2	<u>Labrisomus nuchipinnus</u>	Hairy blenny	1
1	<u>Lagodon rhomboides</u>	Pinfish	1
2	<u>Paralichthys albigutta</u>	Gulf flounder	1
4	<u>Menidia peninsulae</u>	Tidewater silverside	5
7	<u>Anchoa mitchilli</u>	Bay anchovy	1
7	<u>Stellifer lanceolatus</u>	Star drum	1
2	<u>Fundulus similis</u>	Longnose killifish	1
3	<u>Brevoortia patronus</u>	Gulf menhaden	51
2	<u>Pogonias cromis</u>	Black drum	51
7	<u>Cynoscion nebulosus</u>	Spotted seatrout	1
4	<u>Fundulus grandis</u>	Gulf killifish	51
14	<u>Syngnathus scovelli</u>	Gulf pipefish	5
33	<u>Gobiosoma bosai</u>	Naked goby	8
12	<u>Bathygobius soporator</u>	Frillfin Goby	
13	<u>Syngnathus floridae</u>	Dusky pipefish	15
1	<u>Blackbelly Symphurus plagiosa</u>	Blackcheek tongue	

3-22-94 Jar # 8 Mustang Island, North Padre, TX. Jar # 8 Jar # 8

11	<u>Polydactylus octonemus</u>	Atlantic threadfin	5
5	<u>Membras martinicia</u>	Rough silverside	10
2	<u>Syngnathus floridae</u>	Dusky pipefish	15
1	<u>Ancylopersetta quadricellata</u>	Ocellated flounder	5
1	<u>Lagodon rhomboides</u>	Pinfish	1
4	<u>Stellifer lanceolatus</u>	Star drum	1
1	<u>Brevoortia patronus</u>	Gulf menhaden	1
1	<u>Menticirrhus americanus</u>	Southern kingfish	8
1	<u>Harengula jaguana</u>	Scaled sardine	1

3-24

Jar #9 Brazos Island, 2 mi. north of Boca Chica, Tx. Rio Grande River. Cameron County. Habitat: River

- | | | |
|----|----------------------------------|-------------------------|
| 15 | <u>Citharichthys spilopterus</u> | Bay whiff |
| 1 | <u>Anchoa cubana</u> | Cuban anchovy |
| 2 | <u>Anchoa mitchilli</u> | Bay anchovy |
| 8 | <u>Menidia peninsulae</u> | Tidewater silverside |
| 2 | <u>Membras martinica</u> | Rough silverside |
| 1 | <u>Opisthanema oglinum</u> | Atlantic thread herring |
| 3 | <u>Sardinella aurita</u> | Spanish sardine |
| 7 | <u>Polydactylus octoventrus</u> | Atlantic threadfin |
| 1 | <u>Syngnathus louisianae</u> | Chain pipefish |
| 13 | <u>Gobiomellus shufeldti</u> | Freshwater goby |
| 3 | <u>Urophycis floridana</u> | Southern hake |
| 1 | <u>Pogonias cromis</u> | Black drum |

3-25

Jar #10 Brazos Island, North. Cameron Co. Habitat: Ocean surf

- | | | |
|----|------------------------------|----------------------|
| 2 | <u>Menidia peninsulae</u> | Tidewater silverside |
| 17 | <u>Peprilus triacanthus</u> | Butterfish |
| 9 | <u>Fundulus grandis</u> | Gulf killifish |
| 3 | <u>Gobiosoma boscii</u> | Naked goby |
| 2 | <u>Syngnathus floridae</u> | Dusky pipefish |
| 1 | <u>Syngnathus louisianae</u> | Chain pipefish |
| 1 | <u>Hippocampus zosterae</u> | Dwarf seahorse |
| 2 | <u>Hippocampus erectus</u> | Lined seahorse |
| 2 | <u>Gobiosoma robustum</u> | Code goby |
| 1 | <u>Mugil curema</u> | White mullet |
| 4 | <u>Cynoscion nebulosus</u> | Spotted seatrout |

3-25 Jar #11 Gulf of Mexico. 3 mi. N. of Hwy 100. Cameron Co. Habitat: Surf

- | | | |
|----|----------------------------|----------------|
| 3 | <u>Histrio histrio</u> | Sargassum fish |
| 1 | <u>Hippocampus erectus</u> | Lined seahorse |
| 24 | <u>Urophycis floridana</u> | Southern hake |

3-25 Jar #12 South Padre Island. South of city 1/2 mile.
Off highway 100. Cameron Co. Habitat: Surf

4 Scartella cristata Molly miller
1 Dasyatis sabina Atlantic Stingray

3-26 Adolf Tome Jr. County Park. Hwy. 2725, Texas.

1 Arius felis Hardhead Catfish

Kansas Specimens

Collectors: Aaron Schurbusch

5-2-94 Jar #20 6 miles west of Hwy 75 on 6065 Co. Rd.
Montgomery Co. T-31: R-15 Sycamore Creek
Habitat: Small, rocky stream.

1 Campostoma axomalum Central stoneroller
1 Campostoma oligolepis Largescale stoneroller
1 Notemigonus crysoleucas Golden shiner
1 Pimephales notatus Bluntnose minnow
1 Pimephales tenellus Slim minnow
1 Labidesthes sicculus Brooke silverside
1 Lepomis gibbosus Pumpkinseed
1 Lepomis cyaneus Green sunfish
1 Dorosoma cepedianum Gizzard shad

5-3-94 Jar #21 6 miles west of Independence, KS., Elk City
Reservoir. East end. Montgomery Co.

1 Ictiobus cyprinellus Bigmouth buffalo
1 Pomoxis annularis White crappie

For reference to Lepisosteus spatula See Thomas Hayes photo
Lepisosteus oculatus collection.