
Ichthyology Field Notebook

Spring 2002

Christopher Eichman

Table of Contents

Phylogenetic listing of species Pages 1-3

Chronological site/species collection Pages 4-8

Species Collected by State Pages 9-11

Threatened and Endangered Species Page 11

I. Phylogenetic Listing of Species

82 Total Species

Location: Personal Collection Jar, Buckets #1 and #2 from 2002 TX
Spring Break Trip, Buckets #1 and #2 from 2002 Missouri Trip.

Order: Clupeiformes

Family: Engraulidae

Anchoa mitchilli

Engraulis eurystole

Stellifer lanceolatus

Order: Cypriniformes

Family: Cyprinidae

Cyprinella lutrensis

Dionda nubil

Notemigonus crysoleucas

Notropis Hudsonius

Pimephales vigilax

Notropis venustus

Cyprinodon variegates

Luxilus zonatus

Cyprinella glactura

Camppostoma anomalum

Hybopsis amblops

Luxilis chrysocephalus

Notropis atherinoides

Nocomis biguttatus

Notropis texanus

Notropis boops

Notropis telescopus

Notropis pilsbryi

Semotilus atromaculatus

Pimephales notalus

Notropis rubellus

Luxilus cardinalis

Nocomis asper

Phoxinus erythrogaster

Family: Catastomidae

Moxostoma duquesnei

Hyentelium nigricans

Order: Siluriformes

Family: Ictaluridae

Ictalurus punctatus

Noturus gyrinus

Noturus albater

Which are
where?

Order: Esociformes
 Family: Esocidae
Esox americanus

Order: Ophidiiformes
 Family: Bythitidae
Guntrichthys longipenis

Order: Atheriniformes
 Family: Atherinidae
Menidia peninsulae
Labidesthes sicculus

Order: Cyprinodontiformes
 Family: Fundulidae
Fundulus notatus
Fundulus grandis
Fundulus pulverous
Fundulus similes
Fundulus catenatus

Family: Poeciliidae
Gambusia affinis

Order: Gasterosteiformes
 Family: Syngathidae
Micrognathus criniger
Oostethus brachyums
 Syngnathus floridae
Sungnathus pelagicus
Hippocampus erectus
Hippocampus zosterae

Order: Scorpaeniformes
 Family: Triglidae
Prionotus tribulus

Family: Cottidae
Cottus carolinae
Cottus bairdi

Order: Perciformes
 Suborder: Percoidei
 Family: Centrarchidae
Lepomis macrochirus
Lepomis humilis
Pomoxis annularis
Lepomis megalotis
Lepomis megalotis (hybrid)
Micropterus dolomieu
Ambloplites rupestris

Family: Percidae
Etheostoma spectabile
Etheostoma caeruleum

Percina caprodes
Etheostoma punctulatum
Etheostoma zonale
Etheostoma gracile
Etheostoma blennioides
Etheostoma flabellare
Family: Maronidae
Morone chrysops
Family: Sparidae
Archosargus probatocephalus
Lagodon rhomboids
Family: Polynemidae
Polydactylus octonemus
Family: Carangidae
Trachinotus carolinus
Family: Sciaenidae
Leiostomus xanthurus
Sciaenops ocellatus
Leistomys xanthurus
Suborder: Blennioidei
Family: Blenniidae
Leistomys xanthurus
Suborder: Gobioidi
Family: Gobiidae
Bobiosoma bosc
Gubioinellus boleosoma
Suborder: Mugilidae
Family: Mugilidae
Mugil cephalus
Mugil curema
Order: Pleuronectiformes
Family: Bothidae
Paralichthys lethostigma
Trichopsetta ventralis
Family: Cynoglossidae
Symphurus civitatus

II. Chronological site/species collection

3/16/02

Sabine River

Sabine River @ Hwy. 69

Wood/Smith County, TX

Habitat: silt bottom river

Species Collected: Lepomis macrochirus (Bluegill) (4)
Pomoxis annularis (White Crappie) (1)
Cyprinella lutrensis (Red Shiner) (6)
Dionda nubila (Ozark Minnow) (5)
Notemigonus crysoleucas (Golden Shiner) (2)
Notropis Hudsonius (Spottail Shiner) (2)
Pimephales vigilax (Bullhead Minnow) (17)
Fundulus notatus (Blackstripe Topminnow) (5)
Morone chrysops (White Bass) (1)
Etheostoma spectabile (Orangethroat Darter) (2)
Gambusia affinis (Mosquitofish) (6)

Collectors: Christopher Eichman, Barbara Agens, Brandon Dunham, Lynsey Earl, Ronald Kegerries, Jamie Precht, Christopher Tucker (2002 TX Spring Break Trip)

3/17/02

Little Brazos River

Little Brazos @ Hwy.79

Milam/Brazos County, TX

Habitat: rocky/sandy bottom river

Species Collected: Lepomis humilis (Orangespotted Sunfish) (4)
Lepomis macrochirus (Bluegill) (1)
Cyprinella lutrensis (Red Shiner) (14)
Notemigonus crysoleucas (Golden Shiner) (2)
Notropis venustus (Blacktail Shiner) (9)
Pimephales vigilax (Bullhead Minnow) (13)
Ictalurus punctatus (Channel Catfish) (2)
Noturus gyrinus (Tadpole Madtom) (4)
Gambusia affinis (Mosquitofish) (1)

Collectors: 2002 TX Spring Break Trip

3/18/02

Goose Island

Goose Island @ Hwy.35

Aransas County, TX

Habitat: Gulf Coast

Species Collected: Menidia peninsulae (Tidewater Silverside) (19)
Paralichthys lethostigma (Southern Flounder) (1)

Cyprinodon variegatus (Sheepshead Minnow) (16)
Anchoa mitchilli (Bay Anchovie) (7)
Fundulus grandis (Gulf Killifish) (3)
Fundulus pulvereus (Bayou Killifish) (2)
Fundulus similis (Longnose Killifish) (10)
Bobiosoma bosc (Naked Goby) (4)
Mugil cephalus (Striped Mullet) (4)
Leiostomus xanthurus (Spot Croaker) (1)
Sciaenops ocellatus (Red Drum) (4)
Archosargus probatocephalus (Sheepshead) (1)
Lagodon rhomboides (Pinfish) (9)
Micrognathus criniger (Fringed Pipefish) (3)
Oostethus brachyurus (Opossum Pipefish) (14)
Sygnathus floridae (Dusky Pipefish) (1)

Collectors: 2002 TX Spring Break Trip

3/21/02

Laguna Madre

South Padre Hwy. 4

Cameron County, TX

Habitat: Gulf Coast

Species Collected: Meniclia peninsulae (Tidewater Silverside) (14)
Trichopsetta ventralis (Sash Flounder) (5)
Cyprinodon variegatus (Sheepshead Minnow) (1)
Symphurus civitatus (Offshore Tonguefish) (1)
Anchoa mitchilli (Bay Anchovy) (11)
Fundulus grandis (Gulf Killifish) (4)
Fundulus similis (Longnose Killifish) (2)
Gubioinellus boleosoma (Darter Goby) (9)
Mugil Cephalus (Striped Mullet) (9)
Leistomys xanthurus (Spot Drum) (14)
Sciaenops ocellatus (Red Drum) (12)
Archosargus probatocephalus (Sheepshead) (2)
Lagodon rhomboides (Pinfish) (7)
Hippocampus erectus (Lined Seahorse) (1)
Hippocampus zosterae (Dwarf Seahorse) (1)
Micrognathus criniger (Fringed Pipefish) (1)
Oostethus brachyurus (Opossum Pipefish) (1)
Sungnathus pelagicus (Sargassum Pipefish) (1)
Prionotus tribulus (Bighead Searobin) (1)

Collectors: 2002 TX Spring Break Trip

3/21/02

South Padre Beach Access Hwy. 100

Cameron County, TX

Habitat: Gulf Coast/Ocean

Species Collected: *Guntrichthys longipenis* (Gold Brotula) (1)
Trachinotus carolinus (Florida Pompano) (2)
Anchoa mitchilli (Bay Anchovy) (1)
Engravlis eurystole (Silver Anchovy) (1)
Stellifer lanceolatus (Star Drum) (2)
Mugil curema (White Mullet) (1)
Polydactylus octonemus (Atlantic Threadfin) (1)
Collectors: 2002 TX Spring Break Trip

3/21/02
South Padre Jetties Hwy. 100
Cameron County, TX
Habitat: Gulf Coast/ inland rock lined jetties
Species Collected: *Scartella cristata* (Molly Miller) (6)
Collectors: 2002 TX Spring Break Trip

4/27/02
Black River
NW1/4 Sec2 T28N R3E
Wayne County, MO
Habitat: Silt and sand bottom stream
Species Collected: *Luxilus zonatus* (Bleeding Shiner) (5)
Cyprinella glactura (Whitetail Shiner) (7)
Camppostoma anomalum (Central Stoneroller) (12)
Moxostoma duquesnei (Black Redhorse) (1)
Hybopsis amblops (Bigeye Chub) (2)
Luxilis chrysocephalus (Striped Shiner) (6)
Notropis atherinoides (Emerald Shiner) (2)
Noturus albater (Ozark Madtom) (1)
Esox americanus (Grass Pickerel) (5)
Fundulus notatus (Blackstripe Topminnow) (4)
Gambusia affinis (Mosquitofish) (1)
Labidesthes sicculus (Brook Silverside) (22)
Fundulus catenatus (Northern Studfish) (1)
Cottus carolinae (Banded Sculpin) (7)
Lepomis megalotis (Longear Sunfish) (1)
Lepomis megalotis (Hybrid Longear Sunfish) (1)
Lepomis macrochirus (Bluegill) (5)
Etheostoma spectabile (Orangethroat Darter) (6)
Etheostoma caeruleum (Rainbow Darter) (6)

Collectors: Christopher Eichman, Barbara Agens, Kate Allen, Brandon Dunham, Lynsey Earl, Ryan Good, Brett Greenwood, Bryan Hess, Ronald Kegerries, Jamie Precht, Glenn Selby (2002 Missouri Trip)

4/27/02

Current River

SW1/4 Sec24 T27N R1W

Carter County, MO

Habitat: Gravel Bottom River

Species Collected: Notropis zonatus (Bleeding Shiner) (11)
Notropis galacturus (Whitetail Shiner) (1)
Nocomis biguttatus (Hornyhead Chub) (5)
Notropis texanus (Weed Shiner) (3)
Notropis nubilus (Ozark Minnow) (12)
Notropis atherinoides (Emerald Shiner) (8)
Notropis boops (Bigeye Shiner) (5)
Notropis telescopus (Telescope Shiner) (8)
Luxilus chrysocephalus (Striped Shiner) (2)
Labidesthes sicculus (Brook Silverside) (1)
Fundulus catenatus (Northern Studfish) (5)
Gambusia affinis (Mosquitofish) (4)
Cottus bairdi (Mottled Sculpin) (1)
Cottus carolinae (Banded Sculpin) (2)
Micropterus dolomieu (Smallmouth Bass) (1)
Lepomis macrochirus (Bluegill) (4)
Etheostoma spectabile (Orangethroat Darter) (8)

Collectors: 2002 Missouri Trip

4/28/02

White River

SW1/4 Sec7 T27N R11W

Douglass County, MO

Habitat: gravel bottom river

Species Collected: Notropis pilsbryi (Duskystripe Shiner) (1)
Semotilus atromaculatus (Creek Chub) (9)
Pimephales notalus (Bluntnose Minnow) (13)
Campostoma anomalum (Central Stoneroller) (7)
Cottus carolinae (Banded Sculpin) (2)
Cottus bairdi (Mottled Sculpin) (5)
Gambusia affinis (Mosquitofish) (2)
Fundulus catenatus (Northern Studfish) (4)
Ambloplites rupestris (Rock Bass) (13)
Etheostoma spectabile (Orangethroat Darter) (1)
Lepomis macrochirus (Bluegill) (1)

Collectors: 2002 Missouri Trip

4/28/02

James River

SW1/4 Sec6 T24N R23W

Hwy 213 & 48 @ Galena, Mo

Stone County, MO

Habitat: Gravel Bottom River

Species Collected: Notropis telescopus (Telescope Shiner) (1)
Notropis rubellus (Roseyface Shiner) (1)
Campostoma anomalum (Central Stoneroller) (9)
Luxilus chrysocephalus (Striped Shiner) (4)
Notropis pilsbryi (Duskystriped Shiner) (14)
Notunus albater (Ozark Madtom) (1)
Fundulus notatus (Blackstripe Topminnow) (7)
Gambusia affinis (Mosquitofish) (1)
Labidesthes sicculus (Brook Silverside) (6)
Ambloplites rupestris (Rock Bass) (2)
Pomoxis nigromaculatis (White Crappie) (4)
Percina caprodes (Logperch) (1)
Etheostoma punctulatum (Stippled Darter) (2)
Etheostoma zonale (Banded Darter) (1)
Etheostoma caeruleum (Rainbow Darter) (4)
Etheostoma spectabile (Orangethroat Darter) (11)
Etheostoma gracile (Slough Darter) (7)

Collectors: 2002 Missouri Trip

4/28/02

Center Creek

SE1/4 Sec5 T27N R29W

Jasper County

Habitat: Silt bottom creek

Species Collected: Luxilus cardinalis (Cardinal Shiner) (7)
Nocomis asper (Redspot Chub) (2)
Phoxinus erythrogaster (Southern Redbelly Dace) (4)
Pimephales notatus (Bluntnose Minnow) (3)
Semotilus atromaculatus (Creek Chub) (5)
Hyentelium nigricans (Northern Hogsucker) (1)
Gambusia affinis (Mosquitofish) (1)
Lepomis macrochinus (Bluegill) (1)
Lepomis megalotis (Longear Sunfish) (1)
Etheostoma blennioides (Greenside Darter) (1)
Etheostoma flabellare (Fantail Darter) (1)
Etheostoma punctulatum (Stippled Darter) (1)
Etheostoma spectabile (Orangethroat Darter) (8)
Percina capracles (Logperch) (3)

Collectors: 2002 Missouri Trip

III. Species collected by State

Texas

Scientific Name	Common Name	#Collected
<u>Lepomis macrochirus</u>	Bluegill	5
<u>Lepomis humilis</u>	Orangespotted Sunfish	4
<u>Pomoxis annularis</u>	White Crappie	1
<u>Cyprinella lutrensis</u>	Red Shiner	20
<u>Dionda nubila</u>	Ozark Minnow	5
<u>Notemigonus crysoleucas</u>	Golden Shiner	4
<u>Notropis Hudsonius</u>	Spottail Shiner	2
<u>Pimephales vigilax</u>	Bullhead Minnow	30
<u>Notropis venustus</u>	Blacktail Shiner	9
<u>Fundulus notatus</u>	Blackstripe Topminnow	5
<u>Morone chrysops</u>	White Bass	1
<u>Etheostoma spectabile</u>	Orangethroat Darter	2
<u>Gambusia affinis</u>	Mosquitofish	7
<u>Ictalurus punctatus</u>	Channel Catfish	2
<u>Noturus gyrinus</u>	Tadpole Madtom	4
<u>Menidia peninsulae</u>	Tidewater Silverside	33
<u>Paralichthys lethostigma</u>	Southern Flounder	1
<u>Trichopsetta ventralis</u>	Sash Flounder	5
<u>Cyprinodon variegatus</u>	Sheepshead Minnow	17
<u>Symphurus cinctus</u>	Offshore Tonguefish	1
<u>Anchoa mitchilli</u>	Bay Anchovy	19
<u>Engraulis mordax</u>	Silver Anchovy	1
<u>Stellifer lanceolatus</u>	Star Drum	2
<u>Fundulus grandis</u>	Gulf Killifish	7
<u>Fundulus pulvereus</u>	Bayou Killifish	2
<u>Fundulus similis</u>	Longnose Killifish	12
<u>Bobiosoma bosc</u>	Naked Goby	4
<u>Gubioinellus boleosoma</u>	Darter Goby	9
<u>Mugil cephalus</u>	Striped Mullet	13
<u>Mugil curema</u>	White Mullet	1
<u>Leiostomus xanthurus</u>	Spot Croaker	1
<u>Sciaenops ocellatus</u>	Red Drum	16
<u>Leiostomus xanthurus</u>	Spot Drum	14
<u>Archosargus probatocephalus</u>	Sheepshead	3
<u>Lagodon rhomboides</u>	Pinfish	16
<u>Micrognathus criniger</u>	Fringed Pipefish	4
<u>Oostethus brachyurus</u>	Opossum Pipefish	15
<u>Syngnathus floridae</u>	Dusky Pipefish	1
<u>Syngnathus pelagicus</u>	Sargassum Pipefish	1
<u>Hippocampus erectus</u>	Lined Seahorse	1
<u>Hippocampus zosterae</u>	Dwarf Seahorse	1
<u>Prionotus tribulus</u>	Bighead Searobin	1

<u>Guntrichthys longipenis</u>	Gold Brotula	1
<u>Trachinotus carolinus</u>	Florida Pompano	2
<u>Polydactylus octonemus</u>	Atlantic Threadfin	1
<u>Scartella cristata</u>	Molly Miller	6

Missouri

Scientific Name	Common Name	#Collected
<u>Luxilus zonatus</u>	Bleeding Shiner	16
<u>Cyprinella glactura</u>	Whitetail Shiner	8
<u>Camppostoma anomalum</u>	Central Stoneroller	28
<u>Moxostoma duquesnei</u>	Black Redhorse	1
<u>Hybopsis amblops</u>	Bigeye Chub	2
<u>Luxilis chrysocephalus</u>	Striped Shiner	12
<u>Notropis atherinoides</u>	Emerald Shiner	10
<u>Nocomis biguttatus</u>	Hornyhead Chub	5
<u>Notropis texanus</u>	Weed Shiner	3
<u>Notropis nubilis</u>	Ozark Minnow	12
<u>Notropis boops</u>	Bigeye Shiner	5
<u>Notropis telescopus</u>	Telescope Shiner	9
<u>Notropis pilsbryi</u>	Duskystripe Shiner	15
<u>Semotilus atromaculatus</u>	Creek Chub	14
<u>Pimephales notalus</u>	Bluntnose Minnow	16
<u>Notropis rubellus</u>	Roseyface Shiner	1
<u>Luxilus cardinalis</u>	Cardinal Shiner	7
<u>Nocomis asper</u>	Redspot Chub	2
<u>Phoxinus erythrogaster</u>	Southern Redbelly Dace	4
<u>Hyentelium nigricans</u>	Northern Hogsucker	1
<u>Noturus albater</u>	Ozark Madtom	2
<u>Esox americanus</u>	Grass Pickerel	5
<u>Fundulus notatus</u>	Blackstripe Topminnow	11
<u>Gambusia affinis</u>	Mosquitofish	9
<u>Labidesthes sicculus</u>	Brook Silverside	29
<u>Fundulus catenatus</u>	Northern Studfish	10
<u>Cottus carolinae</u>	Banded Sculpin	11
<u>Cottus bairdi</u>	Mottled Sculpin	6
<u>Lepomis megalotis</u>	Longear Sunfish	2
<u>Lepomis megalotis</u>	Hybrid Longear Sunfish	1
<u>Lepomis macrochirus</u>	Bluegill	11
<u>Etheostoma spectabile</u>	Orangethroat Darter	34
<u>Etheostoma caeruleum</u>	Rainbow Darter	10
<u>Micropterus dolomieu</u>	Smallmouth Bass	1
<u>Ambloplites rupestris</u>	Rock Bass	15
<u>Pomoxis nigromaculatis</u>	White Crappie	4
<u>Percina caprodes</u>	Logperch	4
<u>Etheostoma punctulatum</u>	Stippled Darter	3

<u><i>Etheostoma zonale</i></u>	Banded Darter	1
<u><i>Etheostoma gracile</i></u>	Slough Darter	7
<u><i>Etheostoma blennioides</i></u>	Greenside Darter	1
<u><i>Etheostoma flabellare</i></u>	Fantail Darter	1

IV. Threatened and Endangered Species

Least Darter Released on Site

Arkansas Darter Released on Site

OK Dave Chapman

Impact

COMPOSITION

Chris Eichman

Biome

2002

100 Sheets - 200 Pages

9 1/4 in x 7 1/2 in

wide ruled with margin



6 57717 53014 8

MADE IN INDIA

3-16-02 sat

Left Pittsburg at 7:30 am

11:45 stoped in McClaster, OK. Went to Wal Mart to buy supplies

12:30 lunch at Wal Mart

1:30 left Wal Mart parking lot heading for Texas

6:00 pm Seined the Sabine River at Hwy 69 Bridge in Woodcocks county
Picked up 7 different Plants

7:00 - Left Sabine river and headed for Tyler State Park

7:30 arrived at Tyler State Park, started setting up camp and cook crew prepared supper
After supper was over we pressed are plants

11:00 Went to bed

3-17-02 St. Patrick's Day
Sabine River - sand and silt bottom
water murky brown
seined in flood pools, Boat ramp, stream

Saw Crows and Turkey vultures
Saw plants in bloom in Texas

3-17-02 sun St. Patrick's Day

7:30^{am} wake up - Light Rain

8:00 Breakfast

Break camp and load trailer

9:05 - left camp ground and headed for Trinity river - Passed it up at 10:55

11:45 Passed up Novata river

12:15 ate at McDonald's in Heornes

12:50 - head for little Brazos

1:15 Arrived at little Brazos

River had turbid water - mud and clay bottom
weeds on banks - good cover

5 new species collected

3:10 - Got done seining and left for camp

6:15 arrived at Lake Texana St. Park

7:30 some people ran to wal Mart for supplies

8:00 pm Dinner chili/hotdogs

Watched alligators that evening off of dock

observed green tree frogs

raccoons stole one loaf of bread

3-18-02 Mon

7:00 Breakfast

9:15 left camp

9:45 pick up plants 111 east 172 south intersection

10:00 Stop at HEB for food

10:30 left HEB headed for next stop

11:30 arrived at Aransas Refuge

went to visitor center and watched video for U.S. fish and wildlife service.

Went out on refuge to observation tower to look for whooping cranes - saw two of them on the refuge, also saw Great Blue Heron, Great Egret

Took driving tour to see native species of wildlife, looking for javelina. Saw a white tail deer

1:15 stop in Aransas refuge for lunch

1:50 packed up lunch and headed for Goose Island

3:02 Arrived at Goose Island and started to seine in the ocean - caught many new species,

New species - sheepshead, flounder, pipefish and some more species, Area seined was sand bottom, shells on the beach, windy at the time we arrived

4:42 pm Left Goose Island heading for ferry to North Padre Island

3-19-07 Tue 2007

6:30 arrive at beach campsite on North Padre

7:45 ate dinner -

9:00 looked along shore for crabs and jellyfish
spotted several species of crabs and two different
species of jelly fish -

10:25 left water center and headed for
the John L. McCaskey of Corpus Christi

11:20 arrived at aquarium

walked through the aquarium and saw many
different types of aquatic wild life and fish

Most of the display were mounted for kids

1:25 left aquarium and ate lunch in the dining
lot under the bridge

Picked up several different plant types in
the area under the bridge

2:30 left aquarium parking lot and went to
get food at an HFD

3:15 left HFD heading for Thomas county park

5:33 Arrived at Thomas county park

Set up camp strong winds

7:15 went to the dock and tried to catch some
species of fish

3-19-02 Tue 2002

7:00am breakfast

8:00 went swimming in the ocean.

8:30 started to break camp - windy and cloudy day on the beach

9:20 - left beach campsite and stopped at the visitor center to shower

10:25 left visitor center and headed for the Texas State Aquarium at Corpus Christi

11:20 arrive at aquarium

walked through the aquarium and saw many different types of aquatic wildlife and fish.

Most of the displays were oriented for kids

1:25 left aquarium and ate lunch in the parking lot under the bridge

Picked up several different plant types in the area under the bridge

2:30 left aquarium parking lot and went to get food at an HEB

3:15 left HEB, heading for Thomea county Park

5:33 Arrived at Thomea county park

Set up camp, strong winds.

9:00 went to dock and tried to catch new species of fish

3-20-02 wed

8:40 left camp heading for Laguna Atascosa wildlife Refuge

9:30 wildlife refuge - took a tour of the visitor center and walked on the butterfly trail and watched the birds. Saw several new species of birds, quack, green gull, Tachy lark

10:35 left Refuge - heading for Mexico

11:35 stopped at HEB supplies and lunch

12:35 - left for Mexico from HEB

1:00 crossed border into Mexico

Walked around and saw the market place and went shopping in the market

5:35 left Mexico and head back to Thomas Park

6:35 Set up for dinner had fresh shrimp and rice

3-21-02 Thur

7:00 - breakfast crew

9:43 - left camp - packed up all gear and
headed for South Padre Island

10:54 arrived at windsurfing access beach and
started to seine