

Collecting Trip to Texas

M'Liss Neil

Topics in Biology

Dr. J. Triplet

Summer 1988

1957-58 civil disobedience

1957-58

1957-58

1957-58

1957-58

INTRODUCTION

On March 12th, 1988, ten people set out to travel from Pittsburg, Kansas to the southern most tip of Texas. Their objective was to investigate different areas and if possible to collect fish, mammals and plants.

The crew consisted of Dr. J. Triplet, Dr. S. Ford, Cindy Ford, Geff Luttrell, Jeff Peak, Ted Degone, Sandy Curran, Kim Martin, Lora Campbell and M'Liss Neil. Each individual participated in the different area of collection.

Several river system and beaches were sampled for fish on this seven day trip. The different fish to be collected will show, to some extent, the distribution and the different habitates. Some fish that are widely distributed will be collected along with fish that only appear in certain areas, as those along the coast.

Mammal collection was restricted to small species and prepared at the time of capture. The restriction was due to limited collection devices.

MATERIAL AND METHODS

The collection methods were simple. Sampling of fish was done with tow different size seigns. A twelve foot seign for the river systems, and a fifty foot seign for the golf shore line. The twelve foot seign has a breil at each end. The breils are ran along the bottom of the habitate area. Along the top of the seign are floats placed at different intervals. These floats are maned, and pulled back away from

INTRODUCTION

On March 1951, 1952, and 1953, the biologist and the farmer from
Kampong Cham, Cambodia, to the south-east of Phnom Penh. These
specimens were of considerable different value and as possible
to collect fish, mammals, and plants.
The area consisted of Mr. S. Taphon, Mr. S. Pong,
Chin Pong, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961,
Kampong Cham, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969,
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Kampong Cham, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
Kampong Cham, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014,
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Kampong Cham, 3752, 3753, 3754, 3755, 3756

the bottom of the seign so that the seign runs at an angle in a forward motion. The bottom of the seign is called the lead line, and is weighted down with lead. The sampling of the rivers was done with 4 - 6 people. The seigning done on the coastel area was done with 7 - 9 people. When the dofferent species of fish were collected in each area they were placed in jars of formelin and marded for location. Identification was done at a later date.

RESULTS

Ark River, Ft. Smith, AK Crawford Co. city park

Menidia beryllina

Lepomis megalotis

Alosa chrysochloris

Dorosoma cepedianum

Notropis lutrensis

Notropis unbratilis

Pimephales vigilax

Morone saxatilis

no mamals collected

no plants collected

Cap Alberts Pike, Ouachita Mt. Montgomery Co; AK swim area

Campostoma oligolepis

Notropis boops

Etheostoma caeruleum

no mammals collected

Plants: Sanguinaria canadensis

Antennaria plantaginifolia

Back water slough, HWY US. 259, Bowe Co; TX

Lepomis macrochirus

Elassoma zonatum

Gambusia affinis

no mammals collected

no plants collected

Rocky Creek 9.3 miles from Halleetsville on HWY 77S
Lavaca Co; TX

Notropis venustus

Notropis Texanus

Ictaluris punctatis

Percina sciera

no mammals collected

Plants:

Ranunculus macranthus

Oenothera speciosa

Callirhoe digitata

Anemone heterophylla

Lithospermum incisum

Brazos River, Milam Co; Tx. under US. 79 bridge

Notropis lutrensis

Notropis umbratilis

other fish not identified by this student

no mammals collected

Plants:

Vinca major

Castilleja indivisa

San Antonia Bay, Refugio Co; TX. Hoppers Landing boat ramp

Mugil curena

Mugil cephalus

Poecilia latipenna

Fundulus similis

Menidia beryllina

Mammals:

Reithrodontomys humulis

Baromys taylori

Rattus norvegicus

Peromyscus

Plants:

Tradescantia humilis

Ludwigia peploides

Valeriana acutiloba

Goose Island, Cupano Bay, Aransas Co; TX

Anchoa mitchilli

Syngnathus scovelli

Fundulus similis

Cyprinodon variegatus

Mugil curema

Lagodon rhomboides

no mammals collected

no plants collected

Boca-Chica Beach Cameron Co; TX mouth of the Rio-Grand

Gunterichthys longipenis

Mugil cephalus

Bothus ocellatus

Lagodon rhomboides

Sciaenops ocellata

Leiostomus xanthurus

Histrio histrio

Cyprinodon variegatus

Archosargus probatocephalus

no mammals collected

no plants collected

Jack Mahurin farm S.W. Bayview, Cameron Co; TX

no fish collected

Mammals:

Cryptotis parva

Peromyscus attwateri

Plants:

Salvia Greggii

Wells Point Cameron Co; TX, Brazo-Santiago Pass

Isla Blanca Park, South Padre Island

Arius felis

Blennius cristatus

some species of Gobiidae

some species of

some species of Dasyatidae

some species of

no mammals collected

no plants collected

ST. JOSEPH'S HOSPITAL, NEW YORK

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1. *Chlorophyll a* (Chl *a*)

645114-2-10-001 645114-2-10-002

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

100-12601-1748-100

Island Laguna Madra, South Padra Island Cameron Co; TX

Cyprinodon variegatus

Lagodon rhomboides

Gobiusoma robustum

Lucania parva

Fundulus grandis

Fundulus similis

Opsanus beta

Symphurus plagiusa

Leiostomus xanthurus

Sciaenops ocellata

Mugil curema

no mammals collected

no plants collected

CONCLUSION

The Ark River near Ft. Smith is part of the Arkansas river drainage system that ends up in the Mississippi River. The habitat for Menidia beryllian consists of sandy and gravel bottoms, which was the descriptive habitat of the Ark River. The swim area at Cap Alberts Pike in the Ouachita Mt. was rocky and clear. Rocky bottoms are the preferred habitat for Etheostoma where they lay in the rocks in riffly water. The Campostoma also prefer deep fast riffles on the rocky bottoms.

Gambusia affinis distribution is throughout the southern states. The first species caught was in a backwater slough in Bowe Co; TX. Gambusia like vegetation in back water and sluggish streams. The Elassoma that were found in the back water slough also inhabit vegetational areas.

1961-1962 Season, South Island, Johnston Atoll

Geographical Location

Geological Description

Vegetation Description

Soil Description

Climate Description

Water Resources

Human Resources

Other Resources

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The area is a small, flat, sandy area, about 1/2 mile long and 1/4 mile wide. It is located on the south side of the island, near the beach. The area is mostly covered with low-lying vegetation, such as grass and small shrubs. There are some larger trees scattered throughout the area. The soil is sandy and the climate is warm and humid. The area is used for growing crops, such as rice and corn. There are also some small buildings and a few people living in the area.

The area is a small, flat, sandy area, about 1/2 mile long and 1/4 mile wide. It is located on the south side of the island, near the beach. The area is mostly covered with low-lying vegetation, such as grass and small shrubs. There are some larger trees scattered throughout the area. The soil is sandy and the climate is warm and humid. The area is used for growing crops, such as rice and corn. There are also some small buildings and a few people living in the area.

The Brazos River was slow moving and sandy. many Notropis were found there, but are very common in many water systems in the southern states.

San Antonio Bay consisted of brackish water where the ocean current comes in to mix with the rivers that drain along the Texas coast. Mugil curena moves into the oceanic waters in the fall, and prefers higher salinities than do Mugil cephalus. Poecilia and species of Fundulas are common in brackish waters along the coast.

The Anchoa that were found on Goose Island are common in coastal rivers, bays and sounds. The most unusual thing about Anchoa is that they dye after being handled. Along Goose Island at the point where the water touches the sand is alot of vegetation, which is the prefered habitate of the Syngnathus acovelli. This fish is euryhalinic, existing in fresh and brackish water.

On Boca-Chica Beach where the Rio-Grand reaches into the golf coast many different species were found, indicated in the previous data. The Sciaeriops which are found in surf waters and rarely enter fresh water are fairly common in this area, as are Mugil cephalus. Histrio histrio, which was also found along the coast, resembles the sargasso weed that is common along the beach.

Fish that were caught along the beaches of South Padra, Brazo-Santiago Pass, Laguna Madra are all fish that live in saline waters, and are not commonly found inshore. Gobiosoma are more abundant along the coast of Florida, Luciana parva

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which are found along the coast are also common up the Pecos River.

The mammal collected in Texas that isn't common in Kansas was Peromyscus attwateri. Another mammal collected that is rare in Kansas was the Baromys taylori. Plants collected that are not common in Kansas and MO. was Castilleja Valerinana acutiloba.

SUMMARY

The trip to Texas was a learning experience. Traveling through and seeing the changes in the environment, like the trees turning green in March in Texas, and in Kansas they were still without leaves.

Collecting different species; fish, mammals and plants, gave the participants the opportunity to see the distributions of the different species, not to mention being able to identify each. The trip itself has broadened the view of each individual. It showed a different way of looking at the environment, a different way of observing the surroundings.

The visit to Aransas National Wildlife Refuge was the highlight because of the fact you could watch the birds on Mustang Lake. The observation tower gave us the opportunity to watch Whooping Cranes and to see the Roseate Spoonbill. Laguna Atascosa National Wildlife Refuge also gave us the opportunity to observe birds in their natural habitat.

1964-1965, 1966-1967, 1968-1969, 1970-1971, 1972-1973, 1974-1975, 1976-1977, 1978-1979, 1980-1981, 1982-1983, 1984-1985, 1986-1987, 1988-1989, 1990-1991, 1992-1993, 1994-1995, 1996-1997, 1998-1999, 2000-2001, 2002-2003, 2004-2005, 2006-2007, 2008-2009, 2010-2011, 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2020-2021, 2022-2023, 2024-2025, 2026-2027, 2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090-2091, 2092-2093, 2094-2095, 2096-2097, 2098-2099, 2100-2101, 2102-2103, 2104-2105, 2106-2107, 2108-2109, 2110-2111, 2112-2113, 2114-2115, 2116-2117, 2118-2119, 2120-2121, 2122-2123, 2124-2125, 2126-2127, 2128-2129, 2130-2131, 2132-2133, 2134-2135, 2136-2137, 2138-2139, 2140-2141, 2142-2143, 2144-2145, 2146-2147, 2148-2149, 2150-2151, 2152-2153, 2154-2155, 2156-2157, 2158-2159, 2160-2161, 2162-2163, 2164-2165, 2166-2167, 2168-2169, 2170-2171, 2172-2173, 2174-2175, 2176-2177, 2178-2179, 2180-2181, 2182-2183, 2184-2185, 2186-2187, 2188-2189, 2190-2191, 2192-2193, 2194-2195, 2196-2197, 2198-2199, 2200-2201, 2202-2203, 2204-2205, 2206-2207, 2208-2209, 2210-2211, 2212-2213, 2214-2215, 2216-2217, 2218-2219, 2220-2221, 2222-2223, 2224-2225, 2226-2227, 2228-2229, 2230-2231, 2232-2233, 2234-2235, 2236-2237, 2238-2239, 2240-2241, 2242-2243, 2244-2245, 2246-2247, 2248-2249, 2250-2251, 2252-2253, 2254-2255, 2256-2257, 2258-2259, 2260-2261, 2262-2263, 2264-2265, 2266-2267, 2268-2269, 2270-2271, 2272-2273, 2274-2275, 2276-2277, 2278-2279, 2280-2281, 2282-2283, 2284-2285, 2286-2287, 2288-2289, 2290-2291, 2292-2293, 2294-2295, 2296-2297, 2298-2299, 2300-2301, 2302-2303, 2304-2305, 2306-2307, 2308-2309, 2310-2311, 2312-2313, 2314-2315, 2316-2317, 2318-2319, 2320-2321, 2322-2323, 2324-2325, 2326-2327, 2328-2329, 2330-2331, 2332-2333, 2334-2335, 2336-2337, 2338-2339, 2340-2341, 2342-2343, 2344-2345, 2346-2347, 2348-2349, 2350-2351, 2352-2353, 2354-2355, 2356-2357, 2358-2359, 2360-2361, 2362-2363, 2364-2365, 2366-2367, 2368-2369, 2370-2371, 2372-2373, 2374-2375, 2376-2377, 2378-2379, 2380-2381, 2382-2383, 2384-2385, 2386-2387, 2388-2389, 2390-2391, 2392-2393, 2394-2395, 2396-2397, 2398-2399, 2400-2401, 2402-2403, 2404-2405, 2406-2407, 2408-2409, 2410-2411, 2412-2413, 2414-2415, 2416-2417, 2418-2419, 2420-2421, 2422-2423, 2424-2425, 2426-2427, 2428-2429, 2430-2431, 2432-2433, 2434-2435, 2436-2437, 2438-2439, 2440-2441, 2442-2443, 2444-2445, 2446-2447, 2448-2449, 2450-2451, 2452-2453, 2454-2455, 2456-2457, 2458-2459, 2460-2461, 2462-2463, 2464-2465, 2466-2467, 2468-2469, 2470-2471, 2472-2473, 2474-2475, 2476-2477, 2478-2479, 2480-2481, 2482-2483, 2484-2485, 2486-2487, 2488-2489, 2490-2491, 2492-2493, 2494-2495, 2496-2497, 2498-2499, 2500-2501, 2502-2503, 2504-2505, 2506-2507, 2508-2509, 2510-2511, 2512-2513, 2514-2515, 2516-2517, 2518-2519, 2520-2521, 2522-2523, 2524-2525, 2526-2527, 2528-2529, 2530-2531, 2532-2533, 2534-2535, 2536-2537, 2538-2539, 2540-2541, 2542-2543, 2544-2545, 2546-2547, 2548-2549, 2550-2551, 2552-2553, 2554-2555, 2556-2557, 2558-2559, 2560-2561, 2562-2563, 2564-2565, 2566-2567, 2568-2569, 2570-2571, 2572-2573, 2574-2575, 2576-2577, 2578-2579, 2580-2581, 2582-2583, 2584-2585, 2586-2587, 2588-2589, 2590-2591, 2592-2593, 2594-2595, 2596-2597, 2598-2599, 2600-2601, 2602-2603, 2604-2605, 2606-2607, 2608-2609, 2610-2611, 2612-2613, 2614-2615, 2616-2617, 2618-2619, 2620-2621, 2622-2623, 2624-2625, 2626-2627, 2628-2629, 2630-2631, 2632-2633, 2634-2635, 2636-2637, 2638-2639, 2640-2641, 2642-2643, 2644-2645, 2646-2647, 2648-2649, 2650-2651, 2652-2653, 2654-2655, 2656-2657, 2658-2659, 2660-2661, 2662-2663, 2664-2665, 2666-2667, 2668-2669, 2670-2671, 2672-2673, 2674-2675, 2676-2677, 2678-2679, 2680-2681, 2682-2683, 2684-2685, 2686-2687, 2688-2689, 2690-2691, 2692-2693, 2694-2695, 2696-2697, 2698-2699, 2700-2701, 2702-2703, 2704-2705, 2706-2707, 27

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13. NOMINUS "ALIA" TUNC EXISTIT IN SUBSIDIIS ROMANAE ART

Page 10

Subject: 104 was the last of numbers from SAC, NOLA established

Admission to the 1950s

VA 44-11412

THE TOP SECRET IS THAT THE COMMUNIST PARTY IS A

See also: [Past records linked to several offshoots](#) [See](#) [Matters](#)

SECRET 2025 RELEASE UNDER E.O. 14176

...against the ...

SECRET

DATE: 10/10/2000 10:10:00 AM

WITNESSES OF THIS DEED AND KNOWING US FOR THE PURPOSES HEREIN SET FORTH, HAVE SIGNED THESE WRITINGS AT THE CITY OF NEW YORK, STATE OF NEW YORK, ON THE DAY FIRST ABOVE SAID.

Transcribed from the original document.

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Approved: _____

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