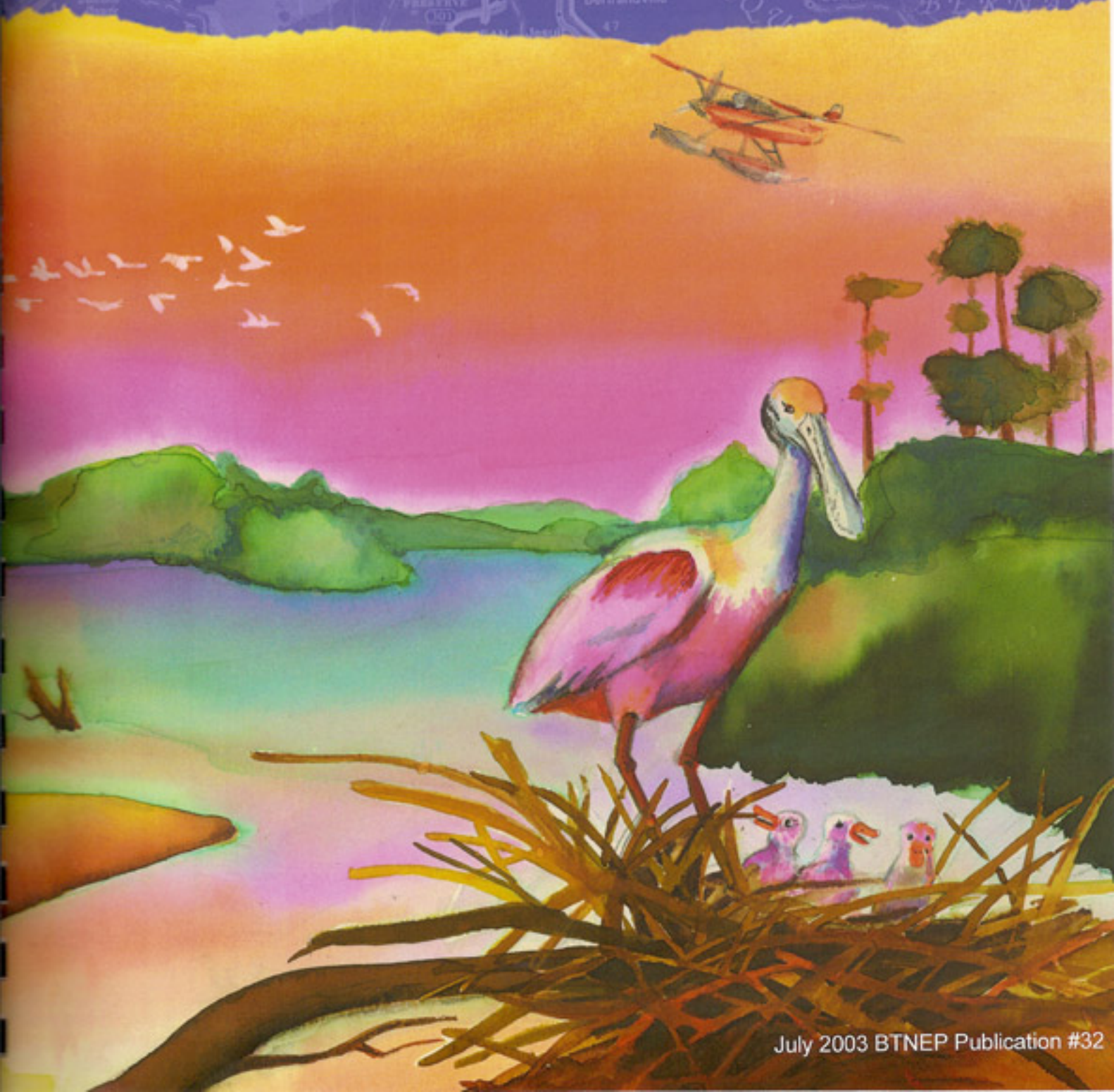


ATLAS & CENSUS

of Wading Bird & Seabird Nesting Colonies in South Louisiana, 2001





Atlas and Census of Wading Bird and Seabird Nesting Colonies in South Louisiana, 2001

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Atlas and Census of Wading Bird and Seabird Nesting Colonies in South Louisiana, 2001

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ABSTRACT

We surveyed all known waterbird nesting colonies (locations from surveys conducted in 1976, 1978, 1983, 1990, and 1991-1999), and all areas en route between known locations (5,908 km), in south Louisiana during April, May, and June 2001. We conducted the surveys from fixed-winged amphibious aircraft configured to collect GIS-ready spatial data. Of 496 colony locations surveyed, 299 were inactive, 123 were active at the known location, 38 were active colonies in a new location (less than or equal to 1 km from old site), and 36 were new colonies in new locations. Most active colonies were in saline marsh (77), fresh marsh (48), or forested wetlands (44). We estimated a total of 215,249 pairs representing 25 bird species among the active nests. Dominant species in terms of number of colonies were great egret (86), snowy egret (71), and laughing gull (58); all other species were represented in less than 50 colonies. Species with greatest total numbers of bird pairs (all colonies) were sandwich terns (38,258), laughing gull (34,717), cattle egret (28,037), and white ibis (24,036); all others had less than 20,000 pairs. Of nine species that had shown declines in total numbers of birds from 1976 to 1990, seven continued to decline from 1990 to 2001, and two were stable or showed an increase in 2001. Two species showed increases over the three survey years: brown pelican (number of birds and number of colonies) and roseate spoonbill (number of colonies only). We calculated that 289 colonies may be present in unsurveyed habitats, which would bring the total number of active colonies in the study area up to 486. We note that the waterbird colony dataset in Louisiana is one of the best in North America, and we recommend that a detailed data analysis be conducted to determine if the population trends indicated in this report are statistically significant. Future management actions should be based on such an analysis.

INTRODUCTION

Louisiana is one of the most important states in the southeastern United States in terms of number of colonies and total number of nesting colonial waterbirds (Martin and Lester 1990; Spindel and Patton 1988). Nesting colonies in Louisiana were censused during previous studies in 1976 (Portnoy 1977), 1978 (Portnoy 1978a), 1983 (Keller et al. 1984), 1990 (Martin and Lester 1990), and partial surveys annually from 1991-1999 (Louisiana Department of Wildlife and Fisheries, Louisiana Natural Heritage Program [LNHP], unpublished data). A database with information from those surveys has been maintained by LNHP in Baton Rouge. The current study was conducted to update the status of previously recorded colony sites and to search the study area for new colonies. The information provided by these surveys is useful to resource managers and others interested in preservation, conservation, and management of Louisiana's dynamic avian and wetland resources.

METHODS

Study Area

We surveyed south Louisiana to the shoreline of the Gulf of Mexico, including forested wetlands, coastal marshes, and barrier islands (Figure 1). The northern boundary of our study area followed a line from the Texas border (Sabine River) near the town of Starks, Calcasieu Parish, Louisiana (30° 17' N, 93° 40' W), to near the town of Bunkie, Avoyelles Parish, Louisiana (30° 56' N, 92° 03' W), to the Mississippi border (Pearl River) about 3 miles east of the town of Pearl River, St. Tammany Parish, Louisiana (30° 22' N, 89° 40' W). All habitats south of this line were considered in the habitat analysis (Figure 1). We did not attempt to survey known colony locations in coastal Mississippi, coastal Alabama, the Toledo Bend area of Louisiana, and other areas of north and central Louisiana that were surveyed in previous studies (Portnoy 1977, 1978a; Keller et al. 1984; Martin and Lester 1990).

Survey Techniques

We conducted aerial surveys during two time periods, following protocols established during earlier studies (Martin and Lester 1990): (1) late April to early May, and (2) late May to early June. During the first time period we surveyed wading bird colonies in forested and scrub-shrub habitat. During the second time period we surveyed coastal marsh, barrier island, and scrub-shrub habitat for seabird and wading bird colonies. This survey schedule has been established in Louisiana as the optimum for catching the peaks of most nesting species while minimizing biases associated with pre fledgling juveniles on the nests, although we acknowledge that we probably missed some early and late nesting birds (Martin and Lester 1990).

Ground surveys were conducted by refuge personnel (see Acknowledgments) within the following national wildlife refuges (NWRs): Sabine, Cameron Prairie, Lacassine, Mandalay, and Breton. All other colonies within the study area were surveyed by air. On Breton NWR (Chandeleur Islands) the ground surveys by refuge personnel did not include counts of herons, egrets, or gulls; only terns, skimmers, and pelicans were censused. Refuge personnel reported, however, that the following species were present, but uncensused, on Breton NWR: reddish egret, tricolored heron, white ibis, great egret, snowy egret, black-crowned night-heron, yellow-crowned night-heron, and laughing gull.

Aerial surveys were conducted from single-engine, fixed-winged amphibious aircraft (Cessna 185 and Cessna 206) owned and operated by the U.S. Department of the Interior (U.S. Geological Survey [USGS] and U.S. Fish and Wildlife Service). Each aircraft was configured with a voice/global positioning system(GPS)/moving map system (Hodges 1999) that links the aircraft's GPS, intercom system, and laptop computers so that each voice observation from the pilot or observer is assigned to a specific latitude, longitude, and time. The system also allowed geospatial points, the flight track of the aircraft, its present position, and the location of recent voice observations to be simultaneously displayed on a 1:250,000-scale digital map image in a remote computer monitor screen mounted on the aircraft's instrument panel. During the surveys we displayed all known colony locations from the historical database and navigated from one site to another at an altitude of approximately 50 m above the ground surface. Between known colony sites

we searched a 400-meter-wide swath (200 m on each side of the aircraft) for new colonies. If a new colony was observed en route, it was assigned a number, surveyed, and logged into the database. When the aircraft arrived at a known colony site, the site was searched to determine if the colony was active or inactive.

Survey crews consisted of 2 or 3 persons aboard the aircraft: a pilot, an observer, and sometimes a navigator. The observer in each plane was responsible for estimating the number of birds present, by species, for each colony. As in previous studies (Keller et al. 1984; Martin and Lester 1990) a colony was considered to include all groups of nesting birds within 1 km of each other unless they were previously identified in the colony database as separate groups. The navigator kept track of colony number, location, and colony history from hard copies of maps and datasets. As we approached a colony site, the navigator would announce the colony number, last known active date, and species present; this information would help us form a search image for that particular colony. Once a colony was located, one or more passes were made around or over the colony as necessary to obtain estimated counts of the number of nesting birds for each species. We recorded observations using the "Record" program of the voice/GPS/moving map system (Hodges 1999). Individual adult birds present on the colony were counted, and it was assumed each individual represented a breeding pair. Therefore, all counts presented in this manuscript refer to bird pairs.

We acknowledge that visibility biases likely affected our counts, especially for smaller and darker bird species, as discussed in other studies (Portnoy 1977; Erwin 1980, 1985, 1990; Martin and Lester 1990), but we assume that those biases were consistent among aerial surveys in Louisiana. As in previous studies, glossy ibis and white-faced ibis numbers were not distinguished, and were collectively referred to as "dark ibises." We also followed the protocol of previous studies in that if the colony location was different from the previous known location, but was within 1 km of the previous location, we retained the original colony number and recorded a new GPS location. If a colony was located greater than 1 km from a known location, we recorded the new location and assigned a new colony number.

Data Transcription and GIS Analysis

After each survey flight, voice observation data were transcribed by using the "Transcribe" program of the voice/GPS/moving map system (Hodges 1999) to digitize the voice observations and link them to GPS locations and time. We then imported all transcribed data into a geographical information systems (GIS) software package (ArcView 3.2a) to produce maps showing colony distribution and to perform other spatial relationship functions. Colony locations were displayed on a LANDSAT Thematic Mapper satellite image of south Louisiana (Braud 2000). Locations of colonies surveyed were then displayed against the 2000 Gap Analysis of Louisiana habitat data (USGS 2000) modified with coastal marsh salinity-type data from Chabreck et al. (2001). From this procedure we assigned a habitat type to each colony location. We used the GIS-generated habitat data to determine colony distribution by habitat type, and to calculate total area of available habitat by classification within the study area. For coastal marsh data, colony locations were assigned to one of the four marsh types, even if the actual location was in scrub/shrub or sand/shell/beach habitat type within the larger marsh zone.

From airplane track files (spatial locations along with time coding recorded by the GPS moving map system every 5 seconds) we determined the total distance surveyed for each habitat type. From those data we calculated the total area surveyed by habitat type (assuming 400-m [0.25 mi.] swath width). The total area surveyed was divided by total area for each habitat type within the study area to estimate percent of each habitat type that was surveyed. We then used the percent surveyed to estimate the number of colonies in unsurveyed habitats based on the number of new colonies found in each habitat type. For this calculation we combined all forested and scrub/shrub habitat types so that no estimates were obtained from habitats that were sampled by <5% of the total for the study area. From the number of known colonies in surveyed habitats, plus the estimated number of colonies in unsurveyed habitats, we estimated the total number of colonies in the study area.

To assess changes in colonial bird populations over time we compared results from this survey to data from earlier studies (Portnoy 1977, 1978a; Keller et al. 1984; Martin and Lester 1990). For this report, however, we conducted no statistical analyses and thus can make no inferences as to significance of observed differences. In addition, areas surveyed, timing of surveys, and number of surveys differed among years, therefore comparisons should be made with caution. For instance, summaries in Portnoy (1977) and Keller et al. (1984) included data from 19 and 25 (respectively) colonies in coastal Mississippi and Alabama; summaries from Martin and Lester (1990) were for Louisiana only, but also included six colonies in north Louisiana (north of 31 degrees latitude). Our study did not include colonies in Mississippi, Alabama, or north Louisiana. Portnoy (1977) also conducted various aerial and ground surveys from February through August, and then reported peak populations for each colony. Subsequent reports, however, were based on surveys conducted only in April, May, and June, so peak numbers were probably underestimated. And finally, Portnoy (1977, 1978a) reported colony size in terms of total numbers of individual adult birds (i.e., 2 x number of nests), whereas subsequent studies reported the number of nesting adult birds present on the colony at the time of the survey (equivalent to number of nests or nesting pairs, assuming one bird of each pair was usually out foraging away from the colony when the count was made). We verified this difference in reporting methods by comparing total numbers, by species, for saline marsh in Portnoy (1977, Table 4, page 38) with those presented in Portnoy (1978b, Table 2, page 232) for the same survey; values in the 1977 report (individuals) are twice those in the 1978 report (nests) for each species. Because of this difference, we adjusted the numbers from Portnoy (1977) and Portnoy (1978a) (i.e., we divided them by two) so that numbers would be comparable among years. This adjustment was applied to total number of birds by species, as well as to colony size classes for individual colony histories.

We hope to conduct a more detailed and rigorous analysis of existing data and present results from that analysis in a separate report, but such an analysis was beyond the scope of the current project.

RESULTS AND DISCUSSION

We logged a total of 42.1 hours of flight time during seven days of aerial surveys (two airplanes) covering 3,230 linear nautical miles (Figure 2). Of the 496 colony sites surveyed, 299 (60%) were inactive and 197 (39%) were active (Table 1, Figure 3). Among the active nests, 123 (62.5%) were active at the known location, 38 (18.3%) were active known colonies that had moved to a new site but still within 1 km of the last surveyed position, and 36 (19.2%) were new colonies in new locations not previously recorded (Table 1).

We surveyed for colonies in 17 habitat types ranging from coastal aquatic communities to upland forested communities (Figure 4). Of the 197 active colonies observed, 167 (85%) of the colonies were found in either saline marsh (77 colonies), fresh marsh (48 colonies), or forested wetlands (44 colonies; Table 1). The remaining 15% were observed in wetland scrub/shrub, upland scrub/shrub, upland forested, intermediate marsh, or brackish marsh habitats.

We estimated a total of 215,249 pairs representing 25 bird species among the active nests (Table 2). Species occurring in the greatest of number of colonies were great egret (86 colonies), snowy egret (71 colonies), and laughing gull (58 colonies); all other species were present in less than 50 colonies (Figure 5). Species with the greatest total numbers of pairs (all colonies combined) were sandwich tern (38,258), laughing gull (34,717), cattle egret (28,037), and white ibis (24,036); all other species estimates were less than 20,000 pairs (Figure 6). Sandwich tern, cattle egret, royal tern, white ibis, and dark ibis had the highest mean colony size (>750 pairs per colony; Figure 7).

Most colonies were either small (<200 pairs; 46%) or medium sized (200-500 pairs, 23%; 500-3,000 pairs, 24.2%; Figure 8). Only 8% of the colonies were large (>3,000 pairs). The five largest colonies observed during the 2001 colony survey were located in saline marsh or forested wetlands (Table 3). Two colonies had populations of over 30,000 pairs, but all other colonies had less than 10,000 pairs. We found a high degree of site fidelity in the largest colonies from 1990 to 2001. In 1976, however, Portnoy (1978b) found at least six colonies on coastal islands that numbered 10,000 to 17,000 nests; only one of those (Colony No. 186, this study) was in our top five list of colonies with >8,000 nests (Table 3).

Habitats with the greatest colony densities (i.e., >1 colony per square nautical mile) were saline marsh (including associated sand/shell/beach and shrub habitats on coastal islands) and wetland scrub/shrub; all other habitats had densities of <1 (Table 4). Based on our total of 36 new colonies in all habitats surveyed, we estimated that an additional 289 colonies were present in unsurveyed areas, and, therefore, that the total number of active colonies in the study area was 486 (Table 5).

Of 15 species that had shown declines in total numbers of bird pairs from 1976 to 1990, eight continued to decline from 1990 to 2001, and seven were stable or showed an increase in 2001 (Figure 9). Wading bird species that showed the most pronounced decreases among the three survey years were great egret, little blue heron, tricolored heron, black-crowned night heron, and white ibis. Interestingly, black-crowned night

heron was the only one of those species that showed a decrease in the number of colonies over the same period (Figure 10), meaning that the decrease in numbers for the other four species was likely due to a decrease in number of pairs per colony, not the number of colonies. Nesting reddish egrets, reported in previous studies, were not found on our aerial surveys and hence were not reported herein, although they were noted (but not counted) by refuge personnel during ground counts at Breton NWR. Among the seabirds, black skimmers, Forster's terns, and laughing gulls showed pronounced decreases in numbers of pairs from 1976 to 1990, but not from 1990 to 2001 (Figure 9). Sandwich terns showed a lesser decrease during the first period, but continued to decrease during the second period. Brown pelicans, almost absent in 1976 (1 colony, 24 pairs), have shown a steady increase in number of pairs and number of colonies during successive surveys (2001: 13 colonies, 8352 pairs). Roseate spoonbills have shown a steady increase in the number of colonies, but the number of pairs has not increased appreciably over time. A more detailed look at colony data and population trends is warranted to determine if there have been actual changes in numbers of birds, or if the trends indicated herein are due to methodology differences among the three studies.

In our dataset, 209 colony sites (all species) had historical data for at least two survey years from 1976 to 2001. Of those, 37 (17.7%) sites were abandoned and then re-colonized (see Appendix C). Martin and Lester (1990, page 29) present summary data comparing their study with previous studies from 1976 and 1983. Those data appear to have been adjusted so that they consider only colonies in south Louisiana, excluding those in Mississippi, Alabama, and north Louisiana; therefore, they may differ from values published in previous reports. We used the summary data reported by Martin and Lester (1990) to evaluate overall trends among the four survey years. We found the number of active colonies in 1976, 1983, 1990, and 2001 to be fairly stable (148, 188, 192, and 197 colonies, respectively), especially in the years after the initial survey, although the number of colony sites surveyed increased over time (168, 247, 356, and 496) due to the addition of new colonies each survey year. The total number of pairs, however, decreased sharply with the current survey (from 373,000; 415,000; and 350,000 pairs in previous years down to 215,000 pairs in 2001). The apparent decrease should not be considered real until a more detailed and rigorous quantitative evaluation has been conducted, including statistical analysis and evaluation of trends by species and by geographic area.

MANAGEMENT CONCERNS

Louisiana is fortunate in having one of the best, if not the best, waterbird colony dataset in North America. The dataset has been maintained and updated based on periodic surveys between 1976 and 2001. Federal, State, and university researchers and managers have been involved in this effort. Methods for the various surveys have been fairly consistent. Periodic surveys should continue, and perhaps increase in frequency. Experimental studies to test assumptions inherent in these surveys should be conducted to determine visibility biases by species and habitat, effect of timing, accuracy and precision.

Although the number of active colonies within the study area appears to have been fairly stable over time (1976-2001), the total number of birds and estimates for several individual species appears to have decreased. The trends shown in this report should not be viewed as real at this time, but they should raise concern among managers. It is clear from the numbers presented herein that a more detailed analysis of all colony data is in order, and such an analysis would clarify management concerns and options. Such a study should include statistical analysis by species and habitat type, and detailed tracking of the individual colonies for which data exist over time. Rates of colony site use, abandonment, and re-establishment, and factors affecting those behaviors, should be included. Habitat change within the study area should also be considered as a possible factor in colony population dynamics. An attempt should be made to determine if population changes are due to factors within the study area, to continental or regional factors, or to both. If intrinsic factors play a major role, then management options should be enumerated and action items considered.

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Table 1. Habitats used by colonies during the 2001 survey.

Habitat type	Colony code*				Total # of colonies surveyed for habitat	Total # of active colonies using habitat
	1	2	3	4		
Agriculture - Cropland - Grassland	7				7	0
Brackish	6	2	1		9	3
Fresh	75	25	9	14	123	48
Intermediate	24	3		6	33	9
Saline	86	57	13	7	163	77
Upland barren	2				2	0
Upland forest - deciduous				1	1	1
Upland forest - evergreen				1	1	1
Upland forest - mixed	2				2	0
Upland scrub/shrub - mixed	1			2	3	2
Wetland barren	4				4	0
Wetland forest - deciduous	73	29	12	3	117	44
Wetland forest - mixed	2				2	0
Wetland scrub- shrub - evergreen	3		1	1	5	2
Wetland scrub/shrub - deciduous	11	7	1		19	8
Wetland scrub/shrub - mixed			1	1	2	2
Total	299	123	38	36	496	197

* Colony codes

1 = Inactive colony, old location

2 = Active colony, old location

3 = Active colony, new location

4 = New colony, new location

Table 2. Abundance of colonial-nesting waterbirds in active colonies of south Louisiana, 2001.

Species	Number of colonies	Number of pairs	Mean # pairs / colony
Great blue heron	35	2,019	58
Little blue heron	43	7,804	181
Tricolored heron	21	410	20
Yellow-crowned night heron	2	21	11
Green heron	4	85	21
Black-crowned night heron	15	329	22
Great egret	86	13,928	162
Cattle egret	26	28,037	1,078
Snowy egret	71	17,674	249
Brown pelican	13	8,352	642
Herring gull	1	2	2
Laughing gull	58	34,717	599
Black skimmer	20	2,905	145
Roseate spoonbill	21	1,168	56
Forsters tern	19	2,690	142
Caspian tern	11	682	62
Sandwich tern	6	38,258	6,376
Royal tern	13	11,787	907
Least tern	2	80	40
Gull-billed tern	4	440	110
Anhinga	19	830	44
White ibis	21	24,036	1,145
Dark ibis ¹	22	18,473	840
Neotropical cormorant	8	522	65
All species	197	215,249	1093

¹ Includes glossy Ibis and white-faced Ibis.

Table 3. Five largest colonies observed during the 2001 colony survey.

<u>Colony number</u>	<u>Colony Coordinates</u>		<u>Parish</u>	<u>Location</u>	<u>Habitat type</u>	<u>Species present</u>	<u>Number of nesting adult pairs</u> ¹	<u>1990 top five colonies</u> ²
	<u>Latitude</u>	<u>Longitude</u>						
83	29.5333	-89.0833	Plaquemines	South Gosier Island	Saline marsh	BRPE, BLSK, SATE, ROTE	38,655	Y
227	30.7400	-92.3453	Evangeline	Miller's Lake	Wetland forest - deciduous	CAEG, DAIB, LBHE, SNEG, ANHI, WHIB	37,520	Y
562	30.3631	-90.3584	Tangipahoa	Joyce Wildlife Management Area	Wetland forest - deciduous	WHIB	9,500	N*
186	29.0525	-90.9338	Terrebonne	Raccoon Island	Saline marsh	GREG, BRPE, LAGU, SATE	9,005	Y
228	30.2128	-91.9019	St. Martin	Lake Martin	Wetland forest - deciduous	ROSP, CAEG, GREG, LBHE	8,020	Y

¹ See appendix A for species abbreviation codes.

² All species combined.

³ Y= colonies were listed in top five by Martin and Lester (1990).

* believed to be equivalent to colony number 268 (1990) and 167(1983, 1976) but location of new colony >1km from previous locations, so new colony number and location assigned.

Table 4. Total distance and habitat surveyed during 2001 colony survey in south Louisiana.

Habitat land cover	# of points	% of total points	Habitat covered (nautical miles)	Total habitat surveyed (square nautical miles)	Total habitat in study area (sq. n. mi.)	% coverage per habitat	# active colonies per habitat	# active colonies per sq. n. mi of surveyed area
Agriculture - Cropland - Grassland	2175	15.50%	500.88	125.22	4035.07	3.10%	0	0.00
Brackish marsh	744	5.30%	171.33	42.83	836.85	5.12%	3	0.07
Dense pine thicket	2	0.01%	0.46	0.12	24.17	.476%	0	0.00
Fresh marsh	2503	17.84%	576.41	144.10	1113.11	12.94%	48	0.33
Intermediate marsh	1461	10.41%	336.45	84.11	418.12	21.12%	9	0.11
Nonvegetated urban	238	1.70%	54.81	13.70	101.61	13.49%	0	0.00
Saline marsh	1255	8.95%	289.01	72.25	453.25	15.94%	77	1.07
Upland barren	71	0.51%	16.35	4.09	13.28	30.78%	0	0.00
Upland forest - deciduous	55	0.39%	12.67	3.17	101.42	3.12%	1	0.32
Upland forest - evergreen	87	0.62%	20.04	5.01	351.68	1.42%	1	0.20
Upland forest - mixed	133	0.95%	30.63	7.66	299.80	2.55%	0	0.00
Upland scrub/shrub - deciduous	4	0.03%	0.92	0.23	13.44	1.73%	0	0.00
Upland scrub/shrub - evergreen	6	0.04%	1.38	0.35	15.71	2.2%	0	0.00
Upland scrub/shrub - mixed	136	0.97%	31.32	7.83	267.77	2.92%	2	0.26
Vegetated urban	1024	7.30%	235.82	58.95	647.46	9.11%	1	0.02
Wetland Barren	39	0.28%	8.98	2.25	17.39	12.91%	0	0.00
Wetland forest - deciduous	3693	26.33%	850.46	212.61	2792.49	7.61%	43	0.20
Wetland forest - evergreen	7	0.05%	1.61	0.40	7.94	5.08%	0	0.00
Wetland forest - mixed	26	0.19%	5.99	1.50	82.85	1.81%	0	0.00
Wetland scrub/shrub - deciduous	264	1.88%	60.80	15.20	162.40	9.36%	8	0.53
Wetland scrub/shrub - evergreen	81	0.58%	18.65	4.66	16.84	27.7%	2	0.43
Wetland scrub/shrub - mixed	24	0.17%	5.53	1.38	30.59	4.52%	2	1.45
Total	14028	100.00%	3230.49	807.62	11803.22	6.84%	197	0.24

Daily distance covered (nautical miles)	
04/30/01	397.36
05/2/01 (N723)	478.84
05/02/01 (N727)	509.36
05/04/01	368.35
06/12/01	638.56
06/13/01	838.00
Total distance flown for all surveys (n. mi.)	3230.49

sq. n. mi. = square nautical mile

Table 5. Calculated number of active colonies in unsurveyed habitats of south Louisiana, 2001.

Habitat land cover (A)	# of points (B)	% of total points (C)	Habitat surveyed (nautical miles) (D)	Total habitat surveyed (square nautical miles) (E)	Total habitat in study area (sq. n. mi.) (F)	% surveyed per habitat (G)	# active colonies per habitat (H)
Brackish marsh	744	5.30%	171.33	42.83	836.85	5.12%	3
Fresh marsh	2503	17.84%	576.41	144.10	1113.11	12.95%	48
Intermediate marsh	1461	10.41%	336.45	84.11	418.12	20.12%	9
Saline marsh	1255	8.95%	289.01	72.25	453.25	15.94%	77
Forested & scrub/shrub habitats	4516	32.19%	1039.98	259.99	4142.91	6.28%	60
Other habitats	3549	25.30%	817.30	204.33	4838.98	4.22%	0
Total	14028	100.00%	3230.49	807.62	11803.22	6.84%	197

Habitat land cover (A)	# active colonies per sq. n. mi of surveyed area (I)	# new colonies found in habitat surveyed (J)	# new colonies per sq. n. mi. of surveyed area (K)	Calculated # of new colonies by habitat for study area (L)	Calculated # of unsurveyed colonies by habitat for study area (M)	Calculated total colonies by habitat for study area (N)
Brackish marsh	0.07	0	0.00	0	0	3
Fresh marsh	0.33	14	0.10	108	94	142
Intermediate marsh	0.11	6	0.07	30	24	33
Saline marsh	1.07	7	0.10	44	37	114
Forested & scrub/shrub habitats	0.23	9	0.03	143	134	194
Other habitats	0.00	0	0.00	0	0	0
Total	1.81	36	0.30	325	289	486

sq. n. mi. = square nautical mile

Spreadsheet Equation Formulas for Column Headings:

A = Combined Habitat (see Table 4).

B = Number of points in each habitat from flight tracks (points are five seconds apart).

C = B / 14028 (total # of points).

D = C * 3230 (total miles flown; see Table 4).

E = D * 0.25 (transect width).

F = Calculated from GIS (see Figure 1).

G = E / F.

H = From Table 1.

I = H / E.

J = From Table 1.

K = J / E.

L = K * F.

M = L - J.

N = M + H.

FIG-1

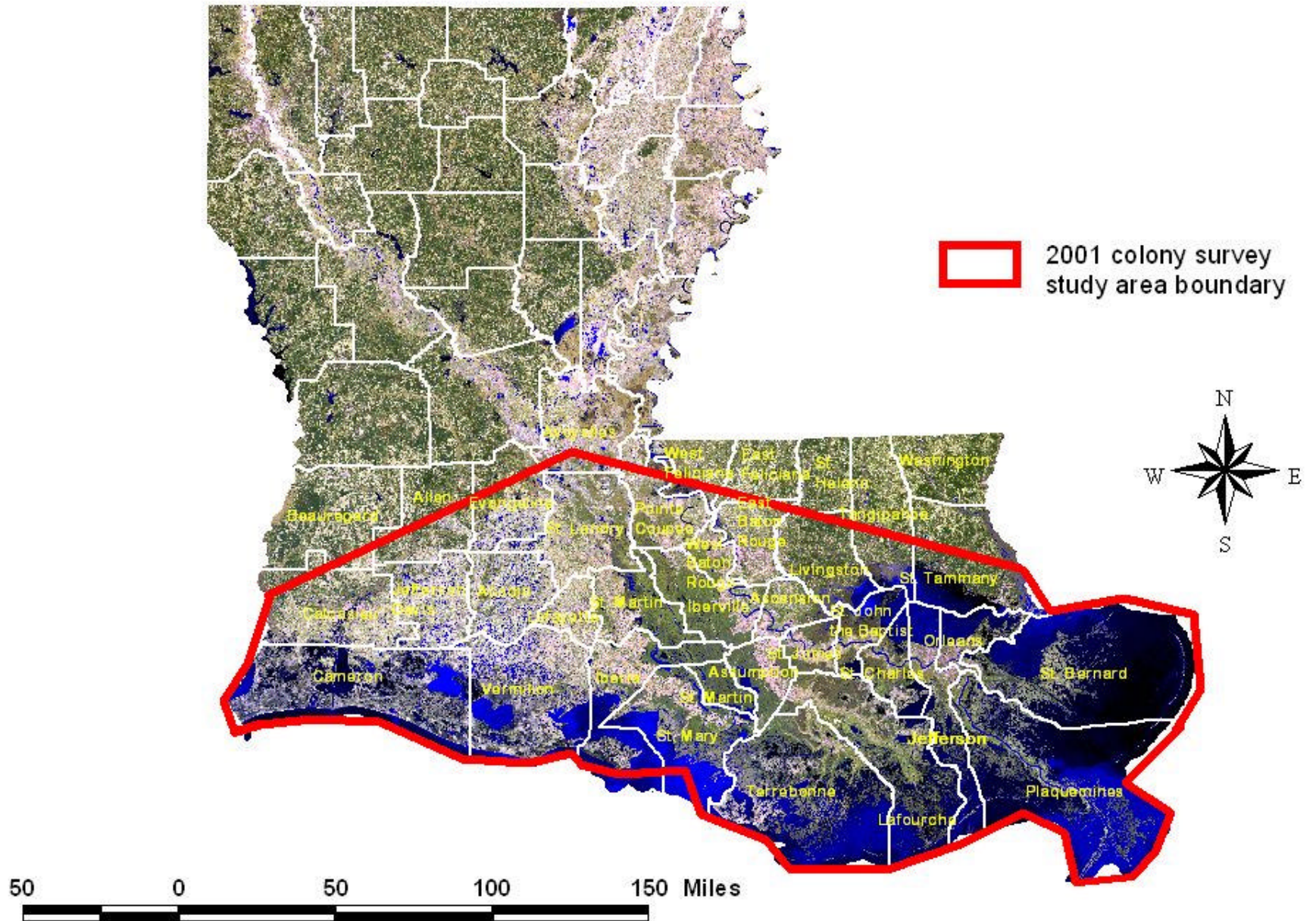


Figure 1. Map of study area for the 2001 colony survey (see text for description and boundary coordinates).

FIG - 2

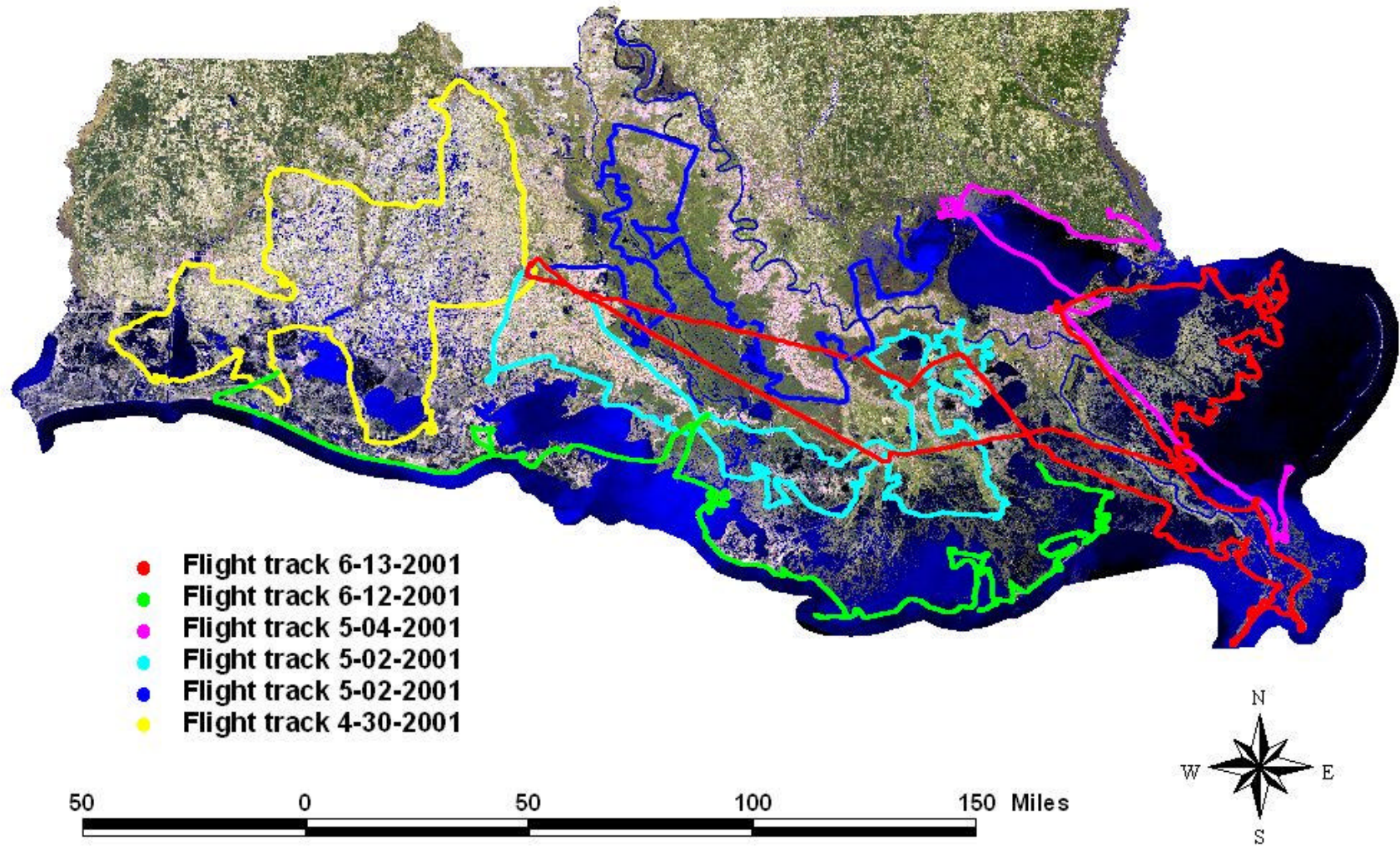


Figure 2. Aircraft flight tracks and survey dates for the 2001 colony survey of south Louisiana.

FIG - 3

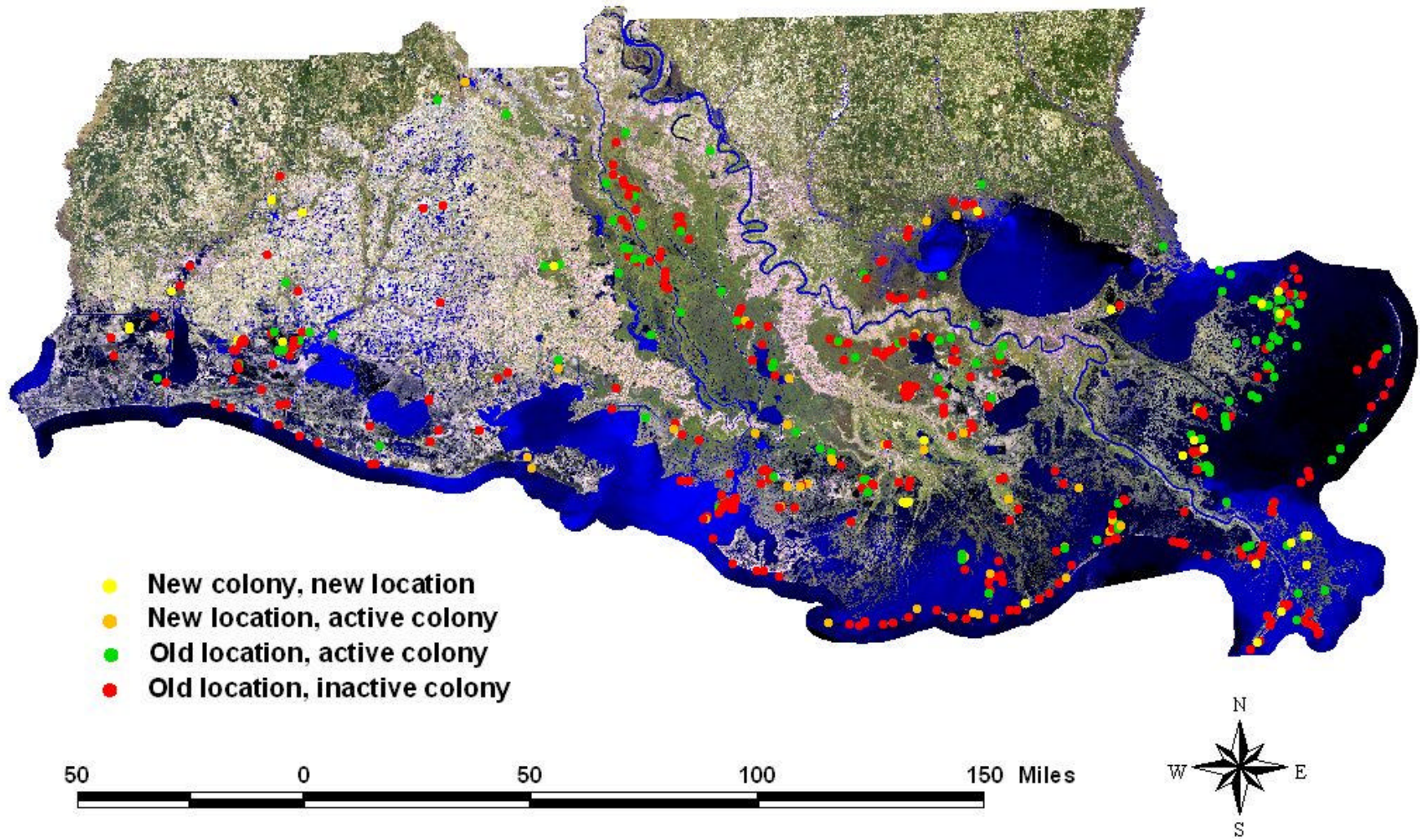


Figure 3. Colony locations by activity and location status for the 2001 colony survey of south Louisiana.

FIG - 4

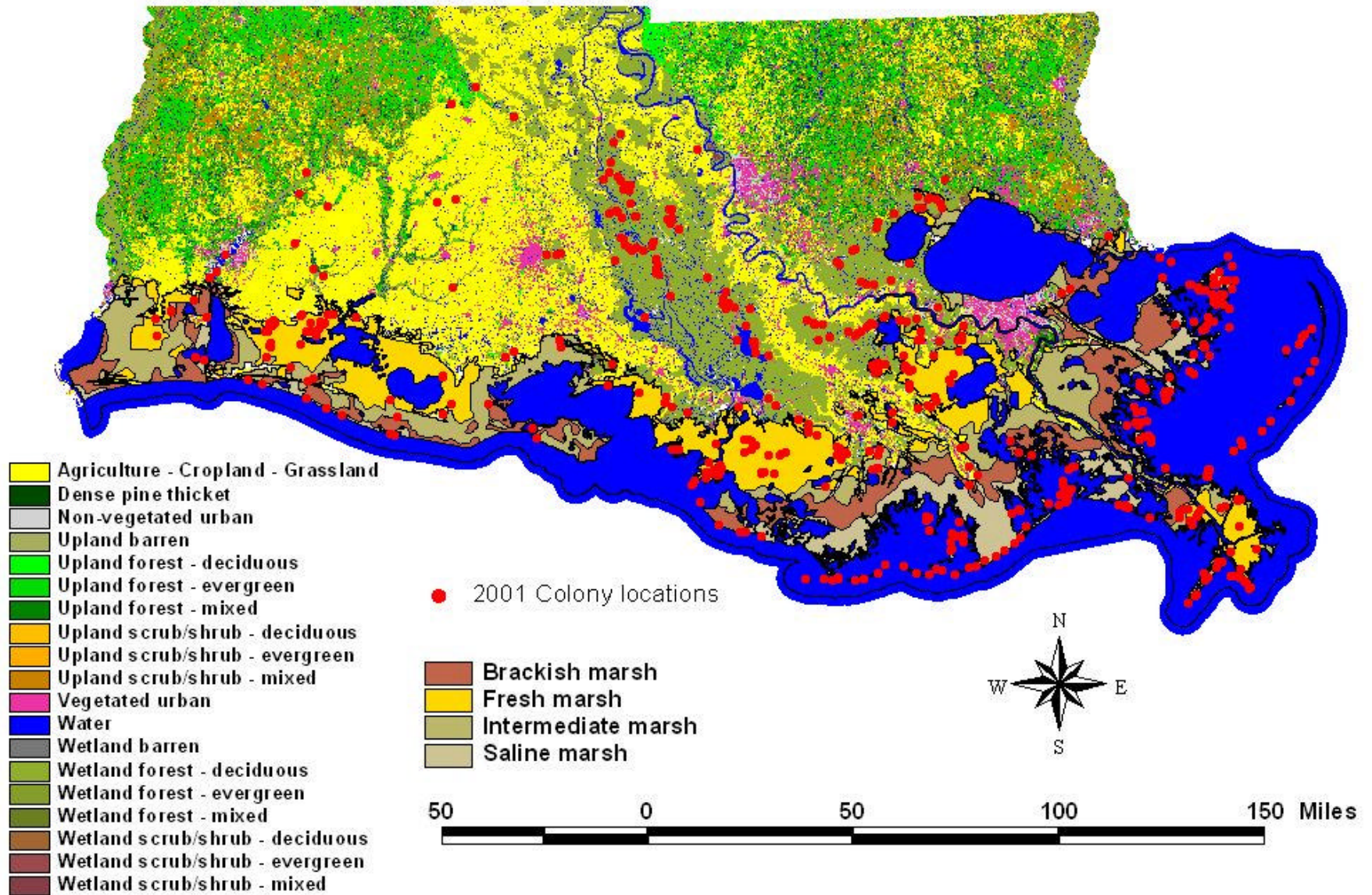


Figure 4. Colony locations by habitat type for the 2001 colony survey of south Louisiana (habitat data from 2000 Louisiana Gap Analysis Project; U.S. Geological Survey, 2000)

FIG - 5

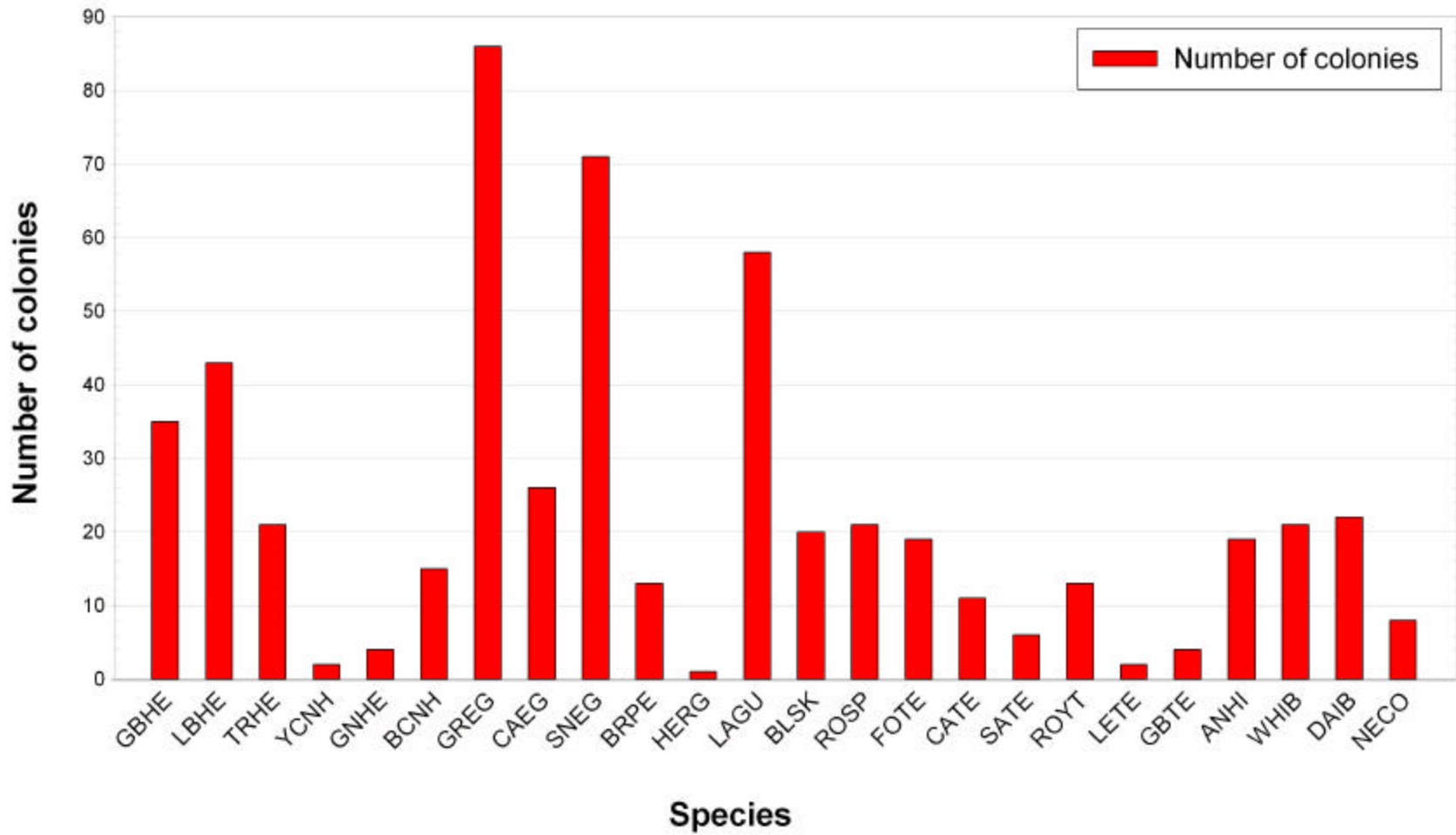


Figure 5. Number of colonies by species for 2001 colony survey of south Louisiana. (see Appendix A for species abbreviations).

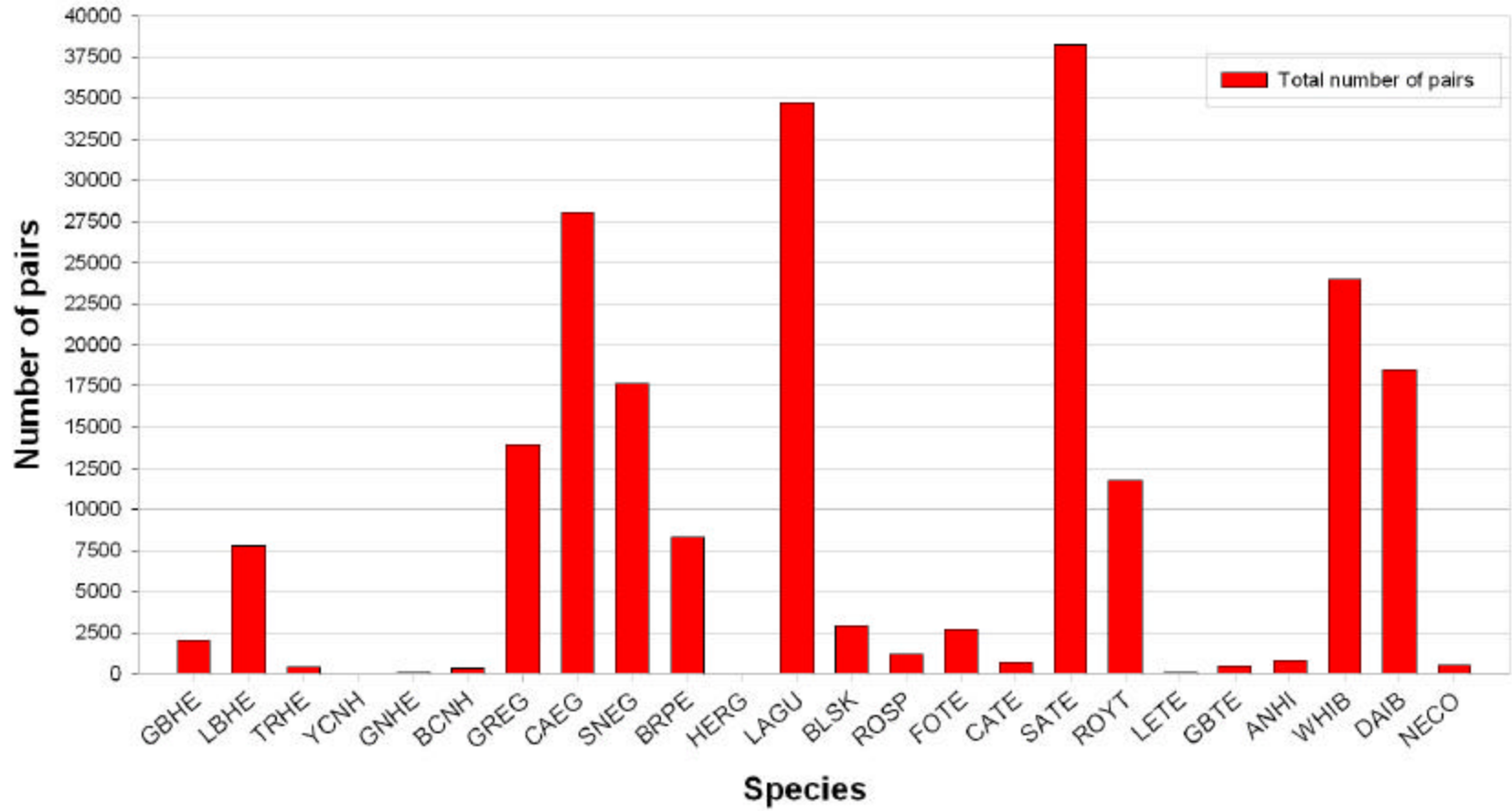


Figure 6. Total number of bird pairs surveyed by species for 2001 colony survey of south Louisiana (see Appendix A for species abbreviations).

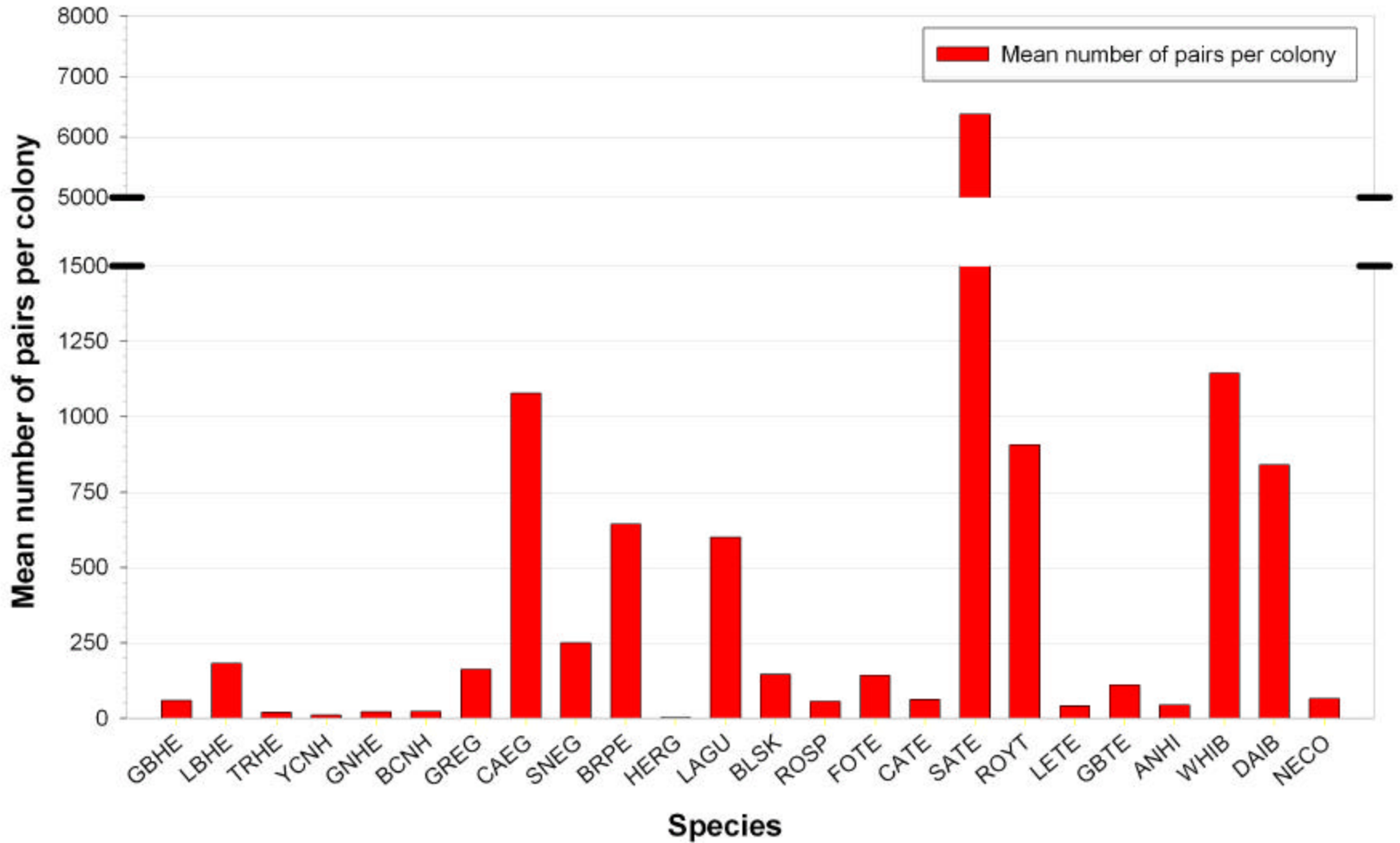


Figure 7. Mean number of bird pairs per colony by species for 2001 colony survey of south Louisiana (see Appendix A for species abbreviations).

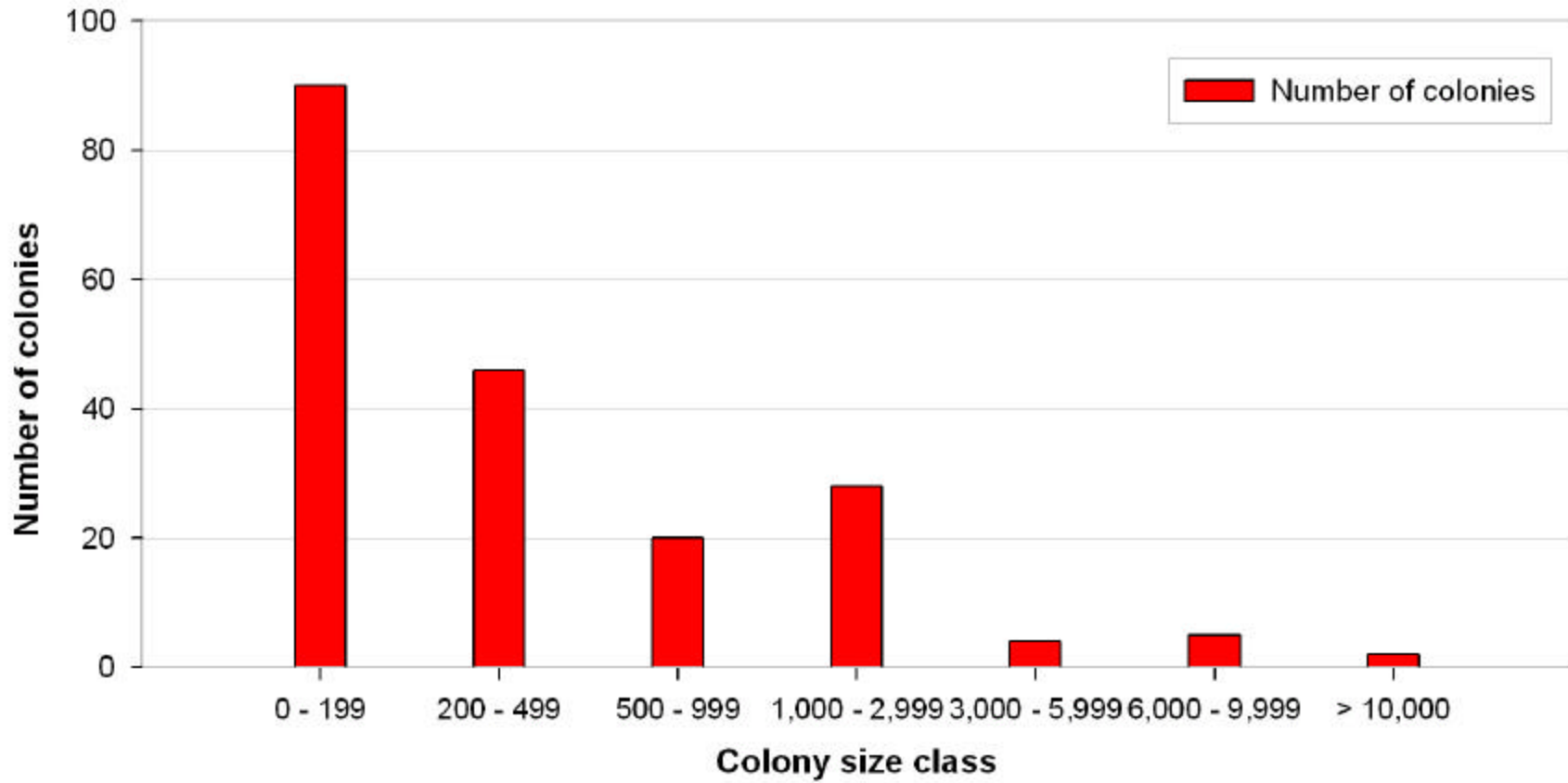


Figure 8. Frequency histogram of colonies by size class (number of pairs) for the 2001 colony survey of south Louisiana.

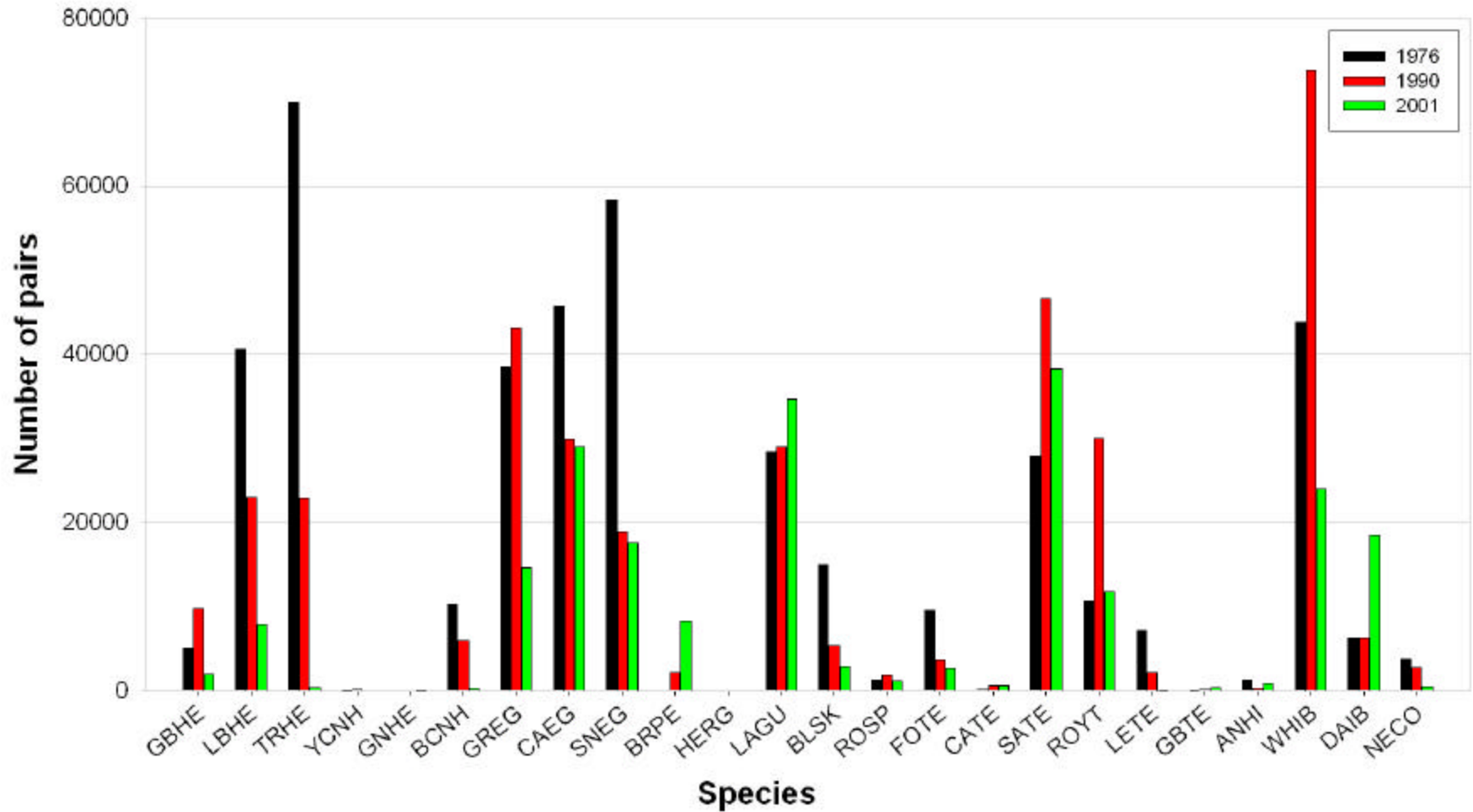


Figure 9. History of total number of bird pairs by species by year (data from previous years taken from Portnoy (1977) and Martin and Lester (1990); see Appendix A for species abbreviations).

FIG - 10

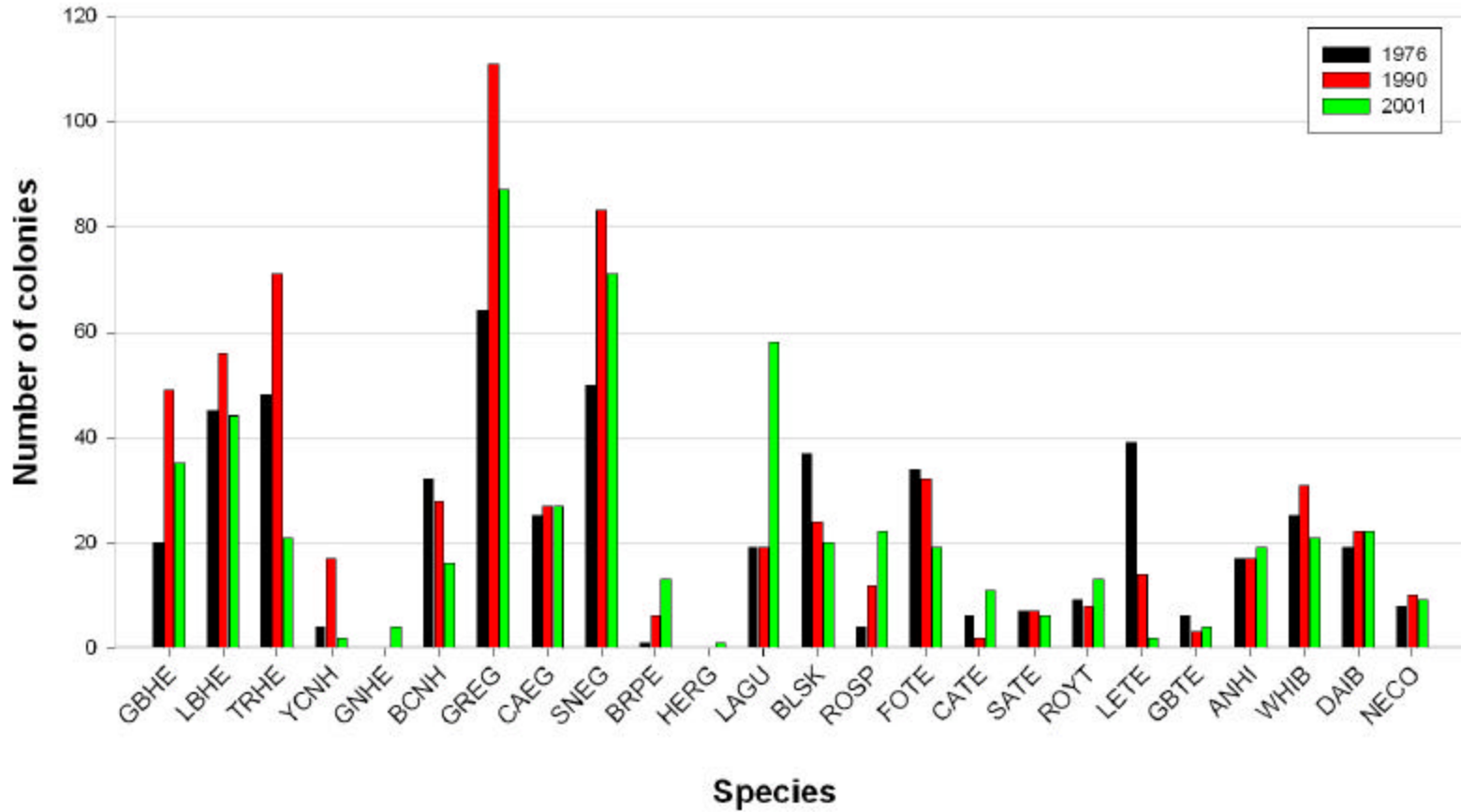


Figure 10. History of total number of colonies by species by year (data from previous years taken from Portnoy (1977) and Martin and Lester (1990); see Appendix A for species abbreviations).

Appendix A. Species and abbreviation codes used for the 2001 Colony Survey.

Abbreviation Code	Common Name	Scientific Name
GBHE	Great blue heron	<i>Ardea herodias</i>
LBHE	Little blue heron	<i>Egretta caerulea</i>
TRHE	Tricolored heron	<i>Egretta tricolor</i>
YCNH	Yellow-crowned night-heron	<i>Nyctanassa violacea</i>
GNHE	Green heron	<i>Butorides virescens</i>
BCNH	Black-crowned night-heron	<i>Nycticorax nycticorax</i>
GREG	Great egret	<i>Ardea alba</i>
CAEG	Cattle egret	<i>Bubulcus ibis</i>
SNEG	Snowy egret	<i>Egretta thula</i>
BRPE	Brown pelican	<i>Pelecanus occidentalis</i>
HERG	Herring gull	<i>Larus argentatus</i>
LAGU	Laughing gull	<i>Larus atricilla</i>
BLSK	Black skimmer	<i>Rynchops niger</i>
ROSP	Roseate spoonbill	<i>Platalea ajaja</i>
FOTE	Forsters tern	<i>Sterna forsteri</i>
CATE	Caspian tern	<i>Sterna caspia</i>
SATE	Sandwich tern	<i>Sterna sandvicensis</i>
ROYT	Royal tern	<i>Sterna maxima</i>
LETE	Least tern	<i>Sterna antillarum</i>
GBTE	Gull-billed tern	<i>Sterna nilotica</i>
ANHI	Anhinga	<i>Anhinga anhinga</i>
WHIB	White ibis	<i>Eudocimus albus</i>
DAIB	Dark ibis	<i>Plegadis spp.</i>
NECO	Neotropic cormorant	<i>Phalacrocorax brasilianus</i>

Appendix B. Colonies that were active in 2001, including number of pairs by species and totals by colony and by species; see appendix A for list of species abbreviations.

All colonies are active - No inactive colonies displayed

New colonies start with #562

Codes for colonies with letter designations for numbers:

A: Colony is active, but no species or counts given

B: Colony is active, species given, but no counts

**Colony number is the same as ECOCODE in LDWF database

Colony number**	GBHE	LBHE	TRHE	YCNH	GNHE	BCNH	GREG	CAEG	SNEG	BRPE	HERG	LAGU	BLSK	ROSP	FOTE	CATE	SATE	ROYT	LETE	GBTE	ANHI	WHIB	DAIB	NECO	Total pairs / colony	
1	110						80		75																265	
2		22							130																	152
3										445	2	1805							425							2677
7													20		75											95
16															450											450
17		75						37	38																	150
20		40	10				82		10					160												302
21									2														1185			1187
29															80											80
31															30											30
32															195											195
34												225														225
35												10	10													20
40						5						125			275				20							425
42			20									1120	40		195	205						20	220			1820
45		20					5		5																	30
51																			85							85
53		20				10			175																	205
61							450		300																	750
63							450	125																		575
64		20					145																			165
66									2	8		5770							450							6230
69												65														65
70												230	110							40						380
82													360				894	131								1385
83										400			200				29562	8493								38655
84	20																									20
89							200																			200
91	20						50					4500		80												4650
93							5	20	10																	35
99	20						20																			40
100		75							225															150		450
101	1																						10			11
102		150							300														3650			4100
104							30		250																	280
105	50						50																			100
107												10			250											260

Colony number**	GBHE	LBHE	TRHE	YCNH	GNHE	BCNH	GREG	CAEG	SNEG	BRPE	HERG	LAGU	BLSK	ROSP	FOTE	CATE	SATE	ROYT	LETE	GBTE	ANHI	WHIB	DAIB	NECO	Total pairs / colony	
108							30		20	10		175													235	
109												10														10
117		75						37	38																	150
132									12																	12
133												125					25									150
136	100						100		300																	500
137										65		1090	10													1165
140										95		300	40			50		550								1035
141																			40							40
145												33														33
153										1100			15			20	2827	1103								5065
154												145														145
155												340											1800			2140
158	20							40	40																	100
159							100																			100
165															15											15
169									100																	100
170	40						60																			100
171	300						300		300													100				1000
174							10		125																	135
176										142						17										159
181												450														450
182												450														450
186							30			3270		780					4925									9005
192	3								20													55				78
202			15			50	995		50																	1110
204												675														675
205												120				65										185
208										2		240	10						10							262
211			10				10		20	20		675	125		110	20										990
214							6																			6
218							75					30			30			120								255
222				8																						8
223					40																					40
225	25	45				25	400		1000					40								40				1575
227		2770						11675	6500													60	4100	12415		37520
228		2000					2000	4000						20												8020
244													85													85
245												25														25
246			10			15	415		200			1600		275												2515
247							40		60																	100
251	20	20					20	10	10													20				100
256							225																			225
265	5		5				350							10									75			445
277									12			345			55				45							457
290	50	100					150		100													50				450

Colony number**	GBHE	LBHE	TRHE	YCNH	GNHE	BCNH	GREG	CAEG	SNEG	BRPE	HERG	LAGU	BLSK	ROSP	FOTE	CATE	SATE	ROYT	LETE	GBTE	ANHI	WHIB	DAIB	NECO	Total pairs / colony
294	85	75					250	175	950																1535
295							440							7							10				457
303	20						250	75	50					200							10				605
308		100					35		175														150		460
309									20													2000	670		2690
312							70		475					10									5	5	565
320												75													75
333	15						70														15				100
339	42		1				195														5				243
340		10					125																20		155
343							50																		50
350						10	105							110											225
365	175	500					625	500	500					25							175				2500
366		30	10				30	30																	100
367	20						125															10			155
370									815														345		1160
371	5						345																		350
375												10	10												20
381	250						250																		500
392			25				20		2			475													522
400									675																675
401												610										10			620
404															475										475
405																			75						75
407												800													800
409										195		1575								125					1895
415	90																				10				100
417							30		30					40											100
420	2	29	3	13			22	800	33					2							10	16	130	2	1062
424	95	115					235	1000						50							95				1590
439													1500								150				1650
440			10			50			10			525	40	2	205					145		40			1027
441												55													55
442												4													4
444													115		85										200
448							125																		125
454							30															40		20	90
457							10																		10
458		1	20									570										50			641
461																									A
462															20		20				125				165
468	40						40		120																200
471										2600		3075													5675
472		200					10	6500															1000		7710
477																									A
478								175				550										405			1130

Colony number**	GBHE	LBHE	TRHE	YCNH	GNHE	BCNH	GREG	CAEG	SNEG	BRPE	HERG	LAGU	BLSK	ROSP	FOTE	CATE	SATE	ROYT	LETE	GBTE	ANHI	WHIB	DAIB	NECO	Total pairs / colony
479												5													5
483																							480		480
496	80						120																		200
497		20							275																295
500	100						100																		200
503		75						38	37																150
505						10						825				75						40			950
506												450										125			575
507						10						125				30						75			240
508												30													30
509																		30							30
512		20	10				20	25	25																100
513		300						350	350																1000
514															125										125
515		10	11						330														142		493
516		10	10				50	10	350																430
518															10										10
519			145						35			925													1105
525		10	40						20			275	5												350
531		30					20		70																120
532		50						50																	100
533	20						80																		100
534	30						70																		100
535		135																					1250	20	1405
536	10						310															20			340
537		135						875																	1010
540							15		85																100
541												201											60		261
542												175				25									200
548							625					600		30								275			1530
549		115	20			5	225																125		490
559												450				150		175							775
562																							9500		9500
563		30				20	787	950						2										250	2039
564		270					5	5	80					10											370
565		25							225																250
566							10		40																50
567									25																25
568						44	2							10											56
569	82						192		138													138			550
570		20	10			30	45		420																525
571							4																		4
572							65		20																85
573					5				35														100		140
574							20																		20
575							38					305													343

Colony number**	GBHE	LBHE	TRHE	YCNH	GNHE	BCNH	GREG	CAEG	SNEG	BRPE	HERG	LAGU	BLSK	ROSP	FOTE	CATE	SATE	ROYT	LETE	GBTE	ANHI	WHIB	DAIB	NECO	Total pairs / colony
576												35													35
577									20			4													24
578												120	20												140
579							20					325	40		10										395
580												75	150												225
581									350																350
582							5		25																30
583									10																10
584		10	10				200		125																345
585		10				25	80		60																175
588					10																				10
589							15																		15
590	24						15																	5	44
591																						500	300		800
592	50	35	15		30	20	275	485	195					80							5		450	120	1760
593																						5	500		505
594		2					20	50						5								2		20	99
595							100		20														56		176
596							25		25															100	150
597							B		B													B	B		B
Total # Pairs	2019	7804	410	21	85	329	13928	28037	17674	8352	2	34717	2905	1168	2690	682	38258	11787	80	440	830	24036	18473	522	215249

Analysis

	GBHE	LBHE	TRHE	YCNH	GNHE	BCNH	GREG	CAEG	SNEG	BRPE	HERG	LAGU	BLSK	ROSP	FOTE	CATE	SATE	ROYT	LETE	GBTE	ANHI	WHIB	DAIB	NECO	Colony Totals
# of colonies	35	43	21	2	4	15	86	26	71	13	1	58	20	21	19	11	6	13	2	4	19	21	21	8	
Mean # pairs/colony	57.7	181.5	19.5	10.5	21.3	21.9	162.0	1078.3	248.9	642.5	2.0	598.6	145.3	55.6	141.6	62.0	6376.3	906.7	40.0	110.0	43.7	1144.6	879.7	65.3	

Appendix C. Complete list of colonies surveyed in 2001 sorted by colony number, including last survey date, coordinates, species present, colony status, habitat, and colony history.

COLONY NUMBER = "LNHP code" of Martin and Lester (1990) and "ECOCODE" used in current colony database (see Martin and Lester 1990 to cross reference with earlier reports).

LASTOBS = Last date that the colony was observed as active.

LASTSVY = Last date that the colony site was surveyed.

LATDEC = Latitude in decimal degrees.

LONGDEC = Longitude in decimal degrees (* -1).

STATUS CODE: 1 = Inactive colony, old location

2 = Active colony, old location

3 = Active colony, new location

4 = New colony, new location

PARISH - see Figure 1.

HISTORY is presented for colonies up to number 305, current through 1990. Colonies numbered 306-356 do not correspond to those same numbers from Martin and Lester (1990) - - those numbers were reassigned to new colonies after 1990. Colonies numbered 357-561 were added during partial surveys between 1991 and 1999. New colonies from 2001 begin with colony number 562. Size classes from 1976 and 1978 were changed from previous reports to reflect pairs, not total adult birds (see text).

HISTORY CODES: * = Colony not surveyed

0 = No nesting activity

1 = 2 to 100 pairs present

2 = 100 to 500 adult birds present

3 = 500 to 1000 pairs present

4 = 1000 to 5000 pairs present

5 = 5000 to 10000 pairs present

6 = 10000 to 15000 pairs present

7 = over 15000 pairs present

11 = Colony is active, but species or counts unknown

C - 1

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
1	5/2/2001	5/2/2001	29.6888	-91.0724	GBHE, GREG, SNEG	3	Wetland Forest - Deciduous	Assumption	3	3	4	4	2
2	5/2/2001	5/2/2001	29.6661	-91.0425	LBHE, SNEG	2	Wetland Forest - Deciduous	Terrebonne	3	3	4	0	2
3	6/12/2001	6/12/2001	29.3000	-89.9500	BRPE, HERG, LAGU, ROYT	2	Saline	Jefferson	7	5	3	4	4
4	7/1/1997	6/12/2001	29.2931	-89.9078	inactive	1	Saline	Jefferson	1	0	4	1	0
7	6/12/2001	6/12/2001	29.4167	-89.8667	FOTE, BLSK	2	Saline	Plaquemines	1	2	4	0	1
11	6/14/1996	6/14/2001	29.2653	-90.1011	inactive	1	Saline	Lafourche	1	0	3	2	0
16	6/12/2001	6/12/2001	29.2792	-90.0689	FOTE	3	Saline	Lafourche	*	*	3	2	2
17	5/4/2001	5/4/2001	29.2736	-90.0667	LBHE, SNEG, CAEG,	2	Saline	Lafourche	*	*	3	2	2
19	6/13/1995	5/2/2001	29.8000	-90.6167	inactive	1	Wetland Scrub/Shrub - Evergreen	Lafourche	*	*	2	4	0
20	5/2/2001	5/2/2001	29.5953	-90.9122	GREG, LBHE, TRHE, SNEG, ROSP	3	Wetland Forest - Deciduous	Terrebonne	*	*	3	4	2
21	5/2/2001	5/2/2001	29.5815	-90.9131	DAIB, SNEG	3	Fresh	Terrebonne	*	*	4	4	4
24	6/13/1983	4/30/2001	29.8500	-93.1000	inactive	1	Intermediate	Cameron	*	*	3	0	0
25	6/13/1983	4/30/2001	29.8500	-93.1000	inactive	1	Intermediate	Cameron	*	*	1	0	0
26	7/2/1997	6/12/2001	29.1167	-90.1667	inactive	1	Saline	Lafourche	1	2	2	4	0
27	6/17/1998	6/13/2001	29.6917	-89.5458	inactive	1	Saline	St. Bernard	3	2	3	2	0
29	6/13/2001	6/13/2001	29.6306	-89.5958	FOTE	2	Saline	Plaquemines	*	*	4	4	1
30	6/15/1989	6/13/2001	29.7167	-89.5708	inactive	1	Saline	St. Bernard	*	*	4	0	0
31	6/13/2001	6/13/2001	29.7139	-89.5639	FOTE	2	Saline	St. Bernard	*	*	4	0	1
32	6/13/2001	6/13/2001	29.7034	-89.5728	FOTE	3	Saline	St. Bernard	*	*	3	4	2
33	6/9/1993	6/13/2001	29.7014	-89.5625	inactive	1	Saline	St. Bernard	*	*	3	1	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
34	6/13/2001	6/13/2001	29.6139	-89.5611	LAGU	2	Saline	Plaquemines	6	3	4	2	2
35	6/13/2001	6/13/2001	29.5639	-89.5833	LAGU, BLSK	2	Saline	Plaquemines	2	0	2	2	1
37	6/7/1983	6/13/2001	29.5739	-89.5667	inactive	1	Saline	Plaquemines	*	*	2	0	0
38	6/15/1999	6/13/2001	29.5767	-89.5903	inactive	1	Saline	Plaquemines	*	*	1	2	0
40	6/13/2001	6/13/2001	29.5236	-89.5611	FOTE	2	Saline	Plaquemines	*	*	1	1	2
41	6/7/1983	6/13/2001	29.5167	-89.5778	inactive	1	Saline	Plaquemines	*	*	2	0	0
42	6/13/2001	6/13/2001	29.5042	-89.5306	TRHE, LAGU, BLSK, FOTE, CATE, WHIB, DAIB	2	Saline	Plaquemines	*	*	2	2	4
43	5/28/1996	4/30/2001	29.8833	-93.0833	inactive	1	Fresh	Cameron	2	1	4	4	0
44	4/26/1990	4/30/2001	29.9000	-93.0833	inactive	1	Fresh	Cameron	*	*	2	4	0
45	5/2/2001	5/2/2001	29.5989	-90.5732	GREG, LBHE, SNEG	3	Wetland Scrub/Shrub - Deciduous	Lafourche	*	*	4	0	1
46	6/13/1995	6/10/2001	29.4833	-89.1667	inactive	1	Saline	Plaquemines	2	2	4	2	0
47	6/18/1999	6/10/2001	29.4667	-89.2000	inactive	1	Wetland Barren	Plaquemines	3	2	3	2	0
48	4/24/1990	5/2/2001	30.3333	-91.6500	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	4	1	0
49	6/13/1996	6/12/2001	29.0833	-90.2500	inactive	1	Saline	Lafourche	*	*	2	0	0
50	6/11/1990	5/2/2001	29.9483	-90.8464	inactive	1	Wetland Forest - Deciduous	St. James	2	0	0	3	0
51	6/12/2001	6/12/2001	29.0716	-90.3848	ROTE	3	Saline	Lafourche	5	5	4	4	1
52	6/14/1993	5/2/2001	29.9194	-90.7414	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	1	0
53	5/2/2001	5/2/2001	29.9732	-90.5949	BCNH, LBHE, SNEG	3	Fresh	St. John the Baptist	3	3	0	2	2
55	6/11/1999	6/12/2001	29.0945	-90.6110	inactive	1	Saline	Terrebonne	*	*	2	3	0
56	6/3/1983	4/30/2001	29.7782	-92.3858	inactive	1	Wetland Scrub/Shrub - Deciduous	Vermilion	*	*	3	0	0
57	6/13/1983	5/2/2001	30.1833	-91.6833	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	5	0	0
58	6/24/1997	6/12/2001	29.0500	-90.8036	inactive	1	Saline	Terrebonne	*	1	2	2	0
59	6/11/1999	6/12/2001	29.0489	-90.8581	inactive	1	Saline	Terrebonne	*	*	4	0	0
60	5/3/1988	6/12/2001	29.6833	-92.2000	inactive	1	Intermediate	Vermilion	3	1	2	1	0
61	6/12/2001	6/12/2001	29.5948	-92.0237	GREG, SNEG	3	Brackish	Vermilion	3	2	3	4	3
62	6/13/1983	4/30/2001	29.7000	-92.6000	inactive	1	Fresh	Vermilion	*	*	1	0	0
63	5/2/2001	5/2/2001	29.9058	-91.9108	CAEG, GREG	2	Wetland Forest - Deciduous	Iberia	3	3	3	4	3
64	5/2/2001	5/2/2001	29.8800	-91.9073	GREG, LBHE	3	Wetland Forest - Deciduous	Iberia	3	2	2	3	2
65	6/22/1989	6/13/2001	29.0111	-89.3306	inactive	1	Intermediate	Plaquemines	3	0	2	0	0
66	6/13/2001	6/13/2001	30.0333	-89.1833	LAGU, BRPE, SNEG, ROYT	2	Saline	St. Bernard	2	1	2	0	5
67	6/11/1990	5/2/2001	29.6689	-90.3903	inactive	1	Wetland Forest - Deciduous	Lafourche	2	3	0	1	0
68	6/18/1999	6/13/2001	30.0167	-89.2333	inactive	1	Saline	St. Bernard	*	*	2	0	0
69	6/13/2001	6/13/2001	30.0172	-89.2181	LAGU	2	Saline	St. Bernard	*	*	2	*	1
70	6/13/2001	6/13/2001	30.0667	-89.2000	LAGU, LETE, BLSK	2	Saline	St. Bernard	*	*	2	1	2
71	4/26/1988	6/13/2001	30.0667	-89.2167	inactive	1	Saline	St. Bernard	*	*	2	0	0
72	5/27/1997	5/3/2001	29.4833	-90.6333	inactive	1	Intermediate	Terrebonne	*	*	4	1	0
74	6/15/1989	6/12/2001	29.0500	-90.7000	inactive	1	Saline	Terrebonne	*	*	2	0	0
75	4/26/1990	4/30/2001	29.9833	-93.5500	inactive	1	Intermediate	Cameron	*	*	3	2	0
76	6/14/1983	4/30/2001	29.7833	-92.3833	inactive	1	Wetland Scrub/Shrub - Deciduous	Vermilion	*	*	4	0	0
77	6/13/1995	5/2/2001	29.6500	-90.4167	inactive	1	Fresh	Lafourche	*	*	2	0	0
78	6/2/1983	5/2/2001	29.6833	-90.4000	inactive	1	Fresh	Lafourche	*	*	4	0	0
79	6/14/1983	5/2/2001	29.7167	-90.5000	inactive	1	Wetland Forest - Deciduous	Lafourche	*	*	3	0	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
80	4/26/1990	4/30/2001	29.7667	-92.9333	inactive	1	Intermediate	Cameron	3	3	4	3	0
81	4/26/1990	4/30/2001	29.7728	-92.9056	inactive	1	Brackish	Cameron	2	2	3	3	0
82	6/13/2001	6/13/2001	29.5667	-89.0500	BLSK, SATE, LETE	2	Saline	Plaquemines	4	2	4	2	4
83	6/14/2001	6/14/2001	29.5333	-89.0833	BRPE, BLSK, SATE, ROYT	2	Saline	Plaquemines	2	3	2	7	7
84	5/2/2001	5/2/2001	29.8388	-91.0645	GBHE	3	Wetland Forest - Deciduous	Assumption	*	*	1	1	1
85	5/16/1988	5/2/2001	29.8500	-91.1167	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	4	0	0
86	6/12/1995	5/2/2001	30.3333	-91.4500	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	4	2	0
87	6/8/1999	5/2/2001	30.3606	-91.4508	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	3	2	0
88	6/2/1983	5/2/2001	29.8833	-90.4500	inactive	1	Fresh	St. Charles	5	3	4	0	0
89	6/13/2001	6/13/2001	29.8775	-90.3775	GREG	2	Wetland Forest - Deciduous	St. Charles	6	4	4	4	2
90	6/2/1983	5/2/2001	29.9167	-90.4500	inactive	1	Fresh	St. Charles	*	*	2	0	0
91	4/30/2001	4/30/2001	29.8500	-93.3833	GBHE, GREG, LAGU, ROSP	2	Brackish	Cameron	6	4	7	6	4
92	5/16/1988	5/10/2001	29.5167	-90.8000	inactive	1	Wetland Forest - Deciduous	Terrebonne	3	5	4	0	0
93	5/2/2001	5/2/2001	29.6223	-90.7175	CAEG, GREG	3	Fresh	Terrebonne	*	*	1	0	1
94	5/14/1997	6/13/2001	30.1500	-89.2000	inactive	1	Saline	St. Bernard	3	3	2	0	0
97	6/9/1998	5/2/2001	29.8167	-91.7000	inactive	1	Wetland Forest - Deciduous	St. Mary	3	2	2	4	0
98	5/16/1988	5/2/2001	30.2833	-90.6167	inactive	1	Wetland Forest - Deciduous	Livingston	3	0	3	2	0
99	5/2/2001	5/2/2001	30.3324	-90.5458	GREG, GBHE	3	Wetland Forest - Deciduous	Livingston	2	2	2	3	1
100	5/2/2001	5/2/2001	29.8000	-90.6333	DAIB, LBHE	2	Fresh	Lafourche	6	4	3	4	2
101	5/2/2001	5/2/2001	29.7887	-90.6314	DAIB, GBHE	3	Fresh	Lafourche	*	*	2	0	1
102	5/2/2001	5/2/2001	29.7983	-90.6478	LBHE, SNEG, WHIB	3	Wetland Scrub- Shrub - Evergreen	Lafourche	*	*	3	4	4
103	6/14/1999	5/2/2001	29.9667	-90.6000	inactive	1	Fresh	St. John the Baptist	3	3	4	3	0
104	5/2/2001	5/2/2001	29.9500	-90.5083	GREG, SNEG	2	Fresh	St. Charles	6	4	4	4	2
105	5/2/2001	5/2/2001	29.9000	-90.8167	GREG, GBHE	2	Wetland Forest - Deciduous	Lafourche	4	3	5	4	1
106	4/26/1988	6/13/2001	29.6833	-89.4500	inactive	1	Saline	St. Bernard	3	*	1	*	0
107	6/13/2001	6/13/2001	29.6500	-89.4667	LAGU, FOTE	2	Saline	St. Bernard	4	2	1	0	2
108	6/13/2001	6/13/2001	29.7333	-89.4500	SNEG, GREG, BRPE, LAGU	2	Saline	St. Bernard	*	*	3	2	2
109	6/13/2001	6/13/2001	29.6833	-89.4667	LAGU	2	Saline	St. Bernard	*	*	3	2	1
113	6/10/1997	6/12/2001	29.2568	-90.4320	inactive	1	Saline	Terrebonne	*	*	2	0	0
114	6/9/1998	5/2/2001	30.2333	-91.5333	inactive	1	Wetland Forest - Deciduous	St. Martin	2	2	2	2	0
115	6/9/1998	5/2/2001	30.1500	-91.5167	inactive	1	Wetland Forest - Deciduous	St. Martin	5	3	3	2	0
116	4/24/1990	5/2/2001	30.2167	-91.6167	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	2	2	0
117	5/2/2001	5/2/2001	30.2261	-91.5936	SNEG, CAEG, LBHE	2	Wetland Forest - Deciduous	St. Martin	*	*	4	2	2
118	6/14/1983	5/2/2001	29.5333	-91.2833	inactive	1	Fresh	St. Mary	4	3	6	0	0
119	6/7/1994	5/2/2001	29.4833	-90.8000	inactive	1	Fresh	Terrebonne	*	*	6	0	0
120	6/2/1983	5/2/2001	29.3758	-90.8469	inactive	1	Fresh	Terrebonne	*	*	2	0	0
121	6/11/1990	5/2/2001	29.7775	-90.6269	inactive	1	Fresh	Lafourche	*	*	2	1	0
122	6/13/1983	4/30/2001	29.8975	-92.9600	inactive	1	Fresh	Cameron	*	*	2	0	0
123	4/26/1996	4/30/2001	30.0000	-92.8500	inactive	1	Fresh	Cameron	*	*	7	5	0
124	4/26/1996	4/30/2001	29.9667	-92.8667	inactive	1	Fresh	Cameron	*	*	2	3	0
125	6/14/1983	5/2/2001	29.7333	-90.5000	inactive	1	Wetland Scrub/Shrub - Deciduous	Lafourche	*	*	3	0	0
126	6/7/1993	5/2/2001	30.0667	-91.2333	inactive	1	Wetland Scrub/Shrub - Deciduous	Iberville	*	*	3	2	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
127	6/14/1993	5/2/2001	29.9333	-90.6667	inactive	1	Agriculture - Cropland - Grassland	St. James	*	*	2	4	0
128	6/14/1993	5/2/2001	29.9167	-90.7000	inactive	1	Wetland Forest - Deciduous	St. James	*	*	2	2	0
129	6/2/1983	5/2/2001	29.9500	-90.6500	inactive	1	Fresh	St. John the Baptist	*	*	3	0	0
130	4/25/1990	5/2/2001	29.8833	-90.3000	inactive	1	Fresh	St. Charles	2	0	2	2	0
131	6/4/1997	5/2/2001	29.9500	-90.8833	inactive	1	Wetland Forest - Deciduous	St. James	3	0	4	4	0
132	5/4/2001	5/4/2001	29.2875	-89.1931	SNEG	2	Fresh	Plaquemines	*	*	4	3	1
133	6/13/2001	6/13/2001	30.0833	-89.4667	CATE, LAGU	2	Saline	St. Bernard	*	*	6	3	2
134	6/13/1983	5/4/2001	30.3500	-90.4500	Colony Not Surveyed		Wetland Forest - Deciduous	Tangipahoa	2	7	2	0	*
135	6/9/1998	5/2/2001	30.3833	-91.6167	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	4	2	0
136	5/2/2001	5/2/2001	30.4722	-91.7239	GBHE, GREG, SNEG, ANHI	2	Wetland Forest - Deciduous	St. Martin	3	4	6	4	2
137	6/13/2001	6/13/2001	29.9667	-89.2000	BRPE, LAGU, BLSK	2	Saline	St. Bernard	3	2	5	4	4
140	6/13/2001	6/13/2001	29.9000	-89.2000	LAGU, BRPE, BLSK, CATE, ROYT	2	Saline	St. Bernard	2	2	4	1	4
141	6/13/2001	6/13/2001	29.9822	-89.2225	LETE	2	Saline	St. Bernard	*	*	4	0	1
143	6/17/1998	6/13/2001	29.8072	-89.3464	inactive	1	Wetland Scrub/Shrub - Deciduous	St. Bernard	1	2	2	0	0
145	6/13/2001	6/13/2001	29.8333	-89.3000	LAGU	2	Saline	St. Bernard	*	*	5	3	1
148	6/13/1995	6/10/2001	29.8667	-88.9000	inactive	1	Saline	St. Bernard	2	2	2	0	0
151	6/16/1994	6/10/2001	29.8564	-88.9128	inactive	1	Saline	St. Bernard	3	0	2	1	0
152	5/1/1989	6/13/2001	29.7000	-91.4833	inactive	1	Wetland Forest - Deciduous	St. Mary	5	3	4	0	0
153	6/14/2001	6/14/2001	29.8833	-88.8667	BRPE, BLSK, CATE, SATE, ROYT	2	Saline	St. Bernard	3	3	3	4	5
154	6/13/2001	6/13/2001	29.9236	-89.3453	LAGU	2	Wetland Scrub/Shrub - Deciduous	St. Bernard	1	*	3	0	4
155	6/13/2001	6/13/2001	29.9208	-89.2625	LAGU, WHIB	2	Saline	St. Bernard	3	3	5	0	4
156	6/13/1983	4/30/2001	29.6833	-92.3500	inactive	1	Fresh	Vermilion	*	*	5	0	0
157	6/11/1999	6/12/2001	29.2411	-90.3097	inactive	1	Saline	Lafourche	*	*	3	0	0
158	5/2/2001	5/2/2001	30.1183	-91.3075	GBHE, CAEG, SNEG,	2	Wetland Forest - Deciduous	Iberville	6	3	7	4	1
159	6/13/2001	6/13/2001	29.2167	-89.3750	GREG	2	Fresh	Plaquemines	2	0	2	0	1
160	6/19/1997	6/12/2001	29.2481	-91.2778	inactive	1	Brackish	Terrebonne	1	0	1	0	0
161	6/19/1997	6/19/2001	29.3289	-91.3525	inactive	1	Brackish	Terrebonne	*	*	1	0	0
162	6/14/1983	6/12/2001	29.4667	-91.3167	inactive	1	Fresh	St. Mary	*	*	4	0	0
163	7/2/1991	6/12/2001	29.4433	-91.2925	inactive	1	Saline	St. Mary	*	*	3	2	0
164	6/20/1997	6/12/2001	29.4406	-91.2758	inactive	1	Fresh	St. Mary	*	*	7	4	0
165	6/13/2001	6/13/2001	29.7500	-89.3667	FOTE	2	Saline	St. Bernard	2	2	3	3	1
167	4/25/1990	5/4/2001	30.3833	-90.4000	inactive	1	Wetland Forest - Deciduous	Tangipahoa	2	2	5	3	0
168	6/14/1993	5/2/2001	30.1000	-90.5667	inactive	1	Wetland Forest - Deciduous	St. John the Baptist	3	2	3	1	0
169	5/4/2001	5/4/2001	30.2333	-89.6767	SNEG	2	Fresh	St. Tammany	*	*	3	4	1
170	5/2/2001	5/2/2001	30.1583	-90.4919	GBHE, GREG	2	Wetland Forest - Deciduous	St. John the Baptist	3	2	4	4	1
171	5/2/2001	5/2/2001	30.1667	-90.7833	GBHE, GREG, SNEG, ANHI	2	Wetland Scrub/Shrub - Deciduous	Ascension	*	*	4	4	4
172	6/15/1999	6/13/2001	28.9772	-89.1547	inactive	1	Saline	Plaquemines	1	0	3	4	0
173	5/30/1990	6/13/2001	29.0000	-89.1667	inactive	1	Saline	Plaquemines	*	*	1	2	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
174	6/13/2001	6/13/2001	29.1097	-89.2236	GREG, SNEG	2	Fresh	Plaquemines	*	*	4	3	2
175	6/9/1997	5/2/2001	29.8306	-90.5181	inactive	1	Fresh	Lafourche	*	*	*	1	0
176	6/13/2001	6/13/2001	29.6333	-88.9667	BRPE, CATE	2	Saline	Plaquemines	7	7	5	7	2
177	6/9/1993	6/10/2001	29.7000	-88.9333	inactive	1	Saline	St. Bernard	*	*	2	0	0
178	6/13/1990	6/10/2001	29.7333	-88.8833	inactive	1	Saline	St. Bernard	*	*	5	1	0
179	6/2/1983	5/2/2001	29.8306	-90.5181	inactive	1	Fresh	Lafourche	*	*	4	0	0
181	6/13/2001	6/13/2001	30.0500	-89.2500	LAGU	2	Saline	St. Bernard	*	*	2	0	2
182	6/13/2001	6/13/2001	30.0167	-89.2667	LAGU	2	Saline	St. Bernard	*	*	4	1	0
183	5/12/1983	4/30/2001	30.1333	-92.8667	inactive	1	Agriculture - Cropland - Grassland	Jefferson Davis	*	*	4	0	0
184	4/26/1990	4/30/2001	30.2111	-93.2628	inactive	1	Fresh	Calcasieu	*	*	2	2	0
185	4/26/1990	4/30/2001	30.1500	-93.3000	inactive	1	Wetland Forest - Mixed	Calcasieu	*	*	3	2	0
186	6/12/2001	6/12/2001	29.0525	-90.9338	GREG, BRPE, LAGU, SATE	3	Saline	Terrebonne	7	7	7	7	5
190	6/14/1995	5/2/2001	29.3694	-90.2681	inactive	1	Brackish	Lafourche	*	*	*	2	0
192	5/4/2001	5/4/2001	30.4481	-90.3383	ANHI, GBHE, SNEG,	2	Wetland Forest - Deciduous	Tangipahoa	*	*	*	1	1
193	4/24/1990	5/2/2001	30.0458	-91.2450	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	3	4	0
194	5/23/1994	5/2/2001	30.0111	-91.2389	inactive	1	Wetland Forest - Deciduous	Iberia	*	*	3	0	0
196	7/9/1987	6/12/2001	29.0647	-90.4856	inactive	1	Saline	Terrebonne	*	*	*	0	0
198	6/14/1999	5/2/2001	29.8294	-90.3992	inactive	1	Wetland Forest - Deciduous	St. Charles	*	*	*	0	0
199	4/26/1990	4/30/2001	29.6481	-92.3833	inactive	1	Wetland Scrub/Shrub - Deciduous	Vermilion	*	*	*	7	0
201	6/11/1990	5/2/2001	29.8053	-90.6208	inactive	1	Fresh	Lafourche	*	*	*	3	0
202	6/12/2001	6/12/2001	29.1802	-90.0653	BCNH, GREG, TRHE, SNEG	3	Saline	Jefferson	*	*	*	2	4
203	6/17/1998	5/4/2001	30.0503	-89.8428	inactive	1	Intermediate	Orleans	*	*	*	4	0
204	6/13/2001	6/13/2001	30.1533	-89.4744	LAGU	2	Wetland Scrub/Shrub - Deciduous	St. Bernard	4	3	4	2	3
205	6/13/2001	6/13/2001	30.1367	-89.4306	LAGU, CATE	2	Saline	St. Bernard	*	*	3	1	2
206	4/26/1988	6/13/2001	30.0961	-89.2367	inactive	1	Saline	St. Bernard	*	*	*	0	0
207	6/9/1993	6/13/2001	30.0625	-89.1736	inactive	1	Saline	St. Bernard	*	*	*	0	0
208	6/13/2001	6/13/2001	30.0111	-89.2297	BRPE, LAGU, BLSK, ROYT	2	Saline	St. Bernard	*	*	*	0	2
209	6/18/1999	6/13/2001	30.0050	-89.2319	inactive	1	Saline	St. Bernard	*	*	*	2	0
211	6/13/2001	6/13/2001	29.7403	-89.3506	TRHE, GREG, SNEG, BRPE, LAGU, BLSK, FOTE, CATE	2	Saline	St. Bernard	*	*	*	0	3
212	4/26/1988	6/13/2001	29.7019	-89.5514	inactive	1	Saline	St. Bernard	*	*	*	0	0
213	6/14/1996	6/13/2001	29.0478	-89.1861	inactive	1	Fresh	Plaquemines	*	*	*	1	0
214	6/13/2001	6/13/2001	29.1144	-89.1242	GREG	2	Fresh	Plaquemines	*	*	*	1	1
215	6/14/1999	5/2/2001	29.8417	-90.2975	inactive	1	Fresh	St. Charles	*	*	*	3	0
218	6/12/2001	6/12/2001	29.3622	-89.8928	GREG, LAGU, FOTE, ROYT	3	Saline	Plaquemines	7	0	0	2	2
219	5/20/1997	6/12/2001	29.3772	-89.8906	inactive	1	Saline	Plaquemines	3	0	0	3	0
221	4/26/1990	4/30/2001	29.9414	-92.9150	inactive	1	Fresh	Cameron	*	*	*	1	0
222	4/30/2001	4/30/2001	29.9419	-92.9358	YCNH	2	Fresh	Cameron	*	*	*	0	1
223	4/30/2001	4/30/2001	29.9722	-92.8606	GBHE	2	Fresh	Cameron	5	3	4	3	1
224	5/1/1989	4/30/2001	30.0486	-93.3925	inactive	1	Intermediate	Cameron	2	0	0	0	0
225	4/30/2001	4/30/2001	29.9428	-93.0925	GBHE, LBHE, GREG, BCNH, SNEG, ROSP, ANHI	2	Fresh	Cameron	*	*	*	2	4
227	4/30/2001	4/30/2001	30.7400	-92.3453	CAEG, DAIB, LBHE, SNEG, ANHI, WHIB	2	Wetland Forest - Deciduous	Evangeline	7	*	*	7	7
228	5/2/2001	5/2/2001	30.2128	-91.9019	ROSP, CAEG, GREG, LBHE	2	Wetland Forest - Deciduous	St. Martin	*	*	*	7	7

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
231	6/15/1989	6/12/2001	29.7564	-93.1147	inactive	1	Upland Barren	Cameron	1	0	0	0	0
232	6/15/1989	6/12/2001	29.7022	-92.9389	inactive	1	Saline	Cameron	*	*	*	*	0
233	5/28/1996	6/12/2001	29.6439	-92.7936	inactive	1	Saline	Cameron	*	*	*	*	0
234	5/28/1996	6/12/2001	29.5786	-92.6000	inactive	1	Saline	Vermilion	*	*	*	*	0
235	7/23/1997	6/12/2001	29.5758	-92.5817	inactive	1	Saline	Vermilion	*	*	*	*	0
236	6/8/1999	6/12/2001	29.2039	-91.1103	inactive	1	Saline	Terrebonne	1	*	0	2	0
237	6/11/1990	5/2/2001	29.5040	-90.2841	inactive	1	Intermediate	Lafourche	*	*	*	2	0
238	6/11/1990	6/12/2001	29.0642	-90.6406	inactive	1	Saline	Terrebonne	*	2	0	0	0
239	6/24/1997	6/12/2001	29.0567	-90.4342	inactive	1	Saline	Terrebonne	1	1	1	0	0
240	6/22/1989	6/12/2001	29.0889	-90.5378	inactive	1	Saline	Terrebonne	*	*	*	0	0
241	6/11/1999	6/12/2001	29.1350	-90.1297	inactive	1	Saline	Lafourche	*	*	*	1	0
242	6/11/1990	5/2/2001	29.6456	-90.4689	inactive	1	Fresh	Lafourche	*	*	*	2	0
243	6/8/1993	6/13/2001	29.0242	-89.3214	inactive	1	Intermediate	Plaquemines	3	3	0	2	0
244	6/13/2001	6/13/2001	29.4103	-89.4756	BLSK	2	Saline	Plaquemines	*	*	*	0	1
245	6/13/2001	6/13/2001	29.5169	-89.5311	LAGU	2	Saline	Plaquemines	*	*	*	4	1
246	6/13/2001	6/13/2001	29.5303	-89.5419	TRHE, BCNH, GREG, SNEG, LAGU, ROSP	2	Saline	Plaquemines	*	*	*	4	4
247	5/2/2001	5/2/2001	30.5728	-91.3400	GREG, SNEG	2	Wetland Forest - Deciduous	West Baton Rouge	*	*	*	4	1
248	4/24/1990	5/2/2001	30.6008	-91.6861	inactive	1	Wetland Forest - Deciduous	Pointe Coupee	*	*	*	2	0
249	6/11/1995	5/2/2001	30.4483	-91.6178	inactive	1	Wetland Forest - Deciduous	Iberville	3	0	0	2	0
250	6/8/1998	5/2/2001	30.4517	-91.6403	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	2	0
251	5/2/2001	5/2/2001	30.3586	-91.6764	LBHE, CAEG, GBHE, SNEG, ANHI	2	Wetland Forest - Deciduous	St. Martin	3	4	0	2	1
252	6/8/1999	5/2/2001	30.2194	-91.5678	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	3	0
253	6/11/1995	5/2/2001	30.1864	-91.5147	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	2	0
254	6/14/1999	5/2/2001	29.7747	-90.6383	inactive	1	Fresh	Lafourche	*	*	*	2	0
255	6/9/1997	5/2/2001	29.9067	-90.7172	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	4	0
256	5/2/2001	5/2/2001	29.4694	-90.7831	GREG	2	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	3	2
257	6/17/1998	5/2/2001	30.3058	-90.6117	inactive	1	Vegetated Urban	Livingston	*	*	*	2	0
258	4/24/1990	5/2/2001	29.8908	-91.1269	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	4	0
259	6/15/1993	6/12/2001	29.4317	-91.2767	inactive	1	Wetland Forest - Deciduous	St. Mary	*	*	*	4	0
260	6/29/1996	6/12/2001	29.4278	-91.2783	inactive	1	Fresh	St. Mary	*	*	*	2	0
261	6/29/1996	6/12/2001	29.4208	-91.2797	inactive	1	Fresh	St. Mary	*	*	*	2	0
262	6/13/1983	6/12/2001	29.4203	-91.2728	inactive	1	Fresh	St. Mary	*	*	*	1	0
263	5/30/1990	6/12/2001	29.4350	-91.3183	inactive	1	Fresh	St. Mary	*	*	*	4	0
264	6/8/1999	6/12/2001	29.4306	-91.3242	inactive	1	Fresh	St. Mary	*	*	*	3	0
265	6/12/2001	6/12/2001	29.4267	-91.3281	GBHE, GREG, TRHE, ROSP, WHIB	2	Fresh	St. Mary	*	*	*	4	2
266	5/18/1996	6/12/2001	29.4236	-91.3197	inactive	1	Fresh	St. Mary	*	*	*	4	0
267	4/25/1990	5/2/2001	30.2061	-90.7197	inactive	1	Wetland Forest - Deciduous	Livingston	*	*	*	2	0
268	6/17/1998	5/4/2001	30.3822	-90.4064	inactive	1	Wetland Forest - Deciduous	Tangipahoa	*	*	*	7	0
270	4/30/1990	6/13/2001	29.2544	-89.4253	inactive	1	Intermediate	Plaquemines	*	*	*	2	0
271	4/30/1990	6/13/2001	29.2361	-89.4242	inactive	1	Intermediate	Plaquemines	*	*	*	2	0
272	6/8/1993	6/13/2001	29.2364	-89.3569	inactive	1	Wetland Forest - Deciduous	Plaquemines	2	0	0	2	0
273	4/30/1990	6/13/2001	29.2500	-89.3522	inactive	1	Fresh	Plaquemines	*	*	*	2	0
274	6/14/1999	5/4/2001	30.3822	-90.3750	inactive	1	Wetland Forest - Deciduous	Tangipahoa	*	*	*	2	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
275	5/27/1997	5/2/2001	30.1675	-91.5117	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	2	0
276	6/9/1993	6/13/2001	29.8328	-89.3089	inactive	1	Saline	St. Bernard	*	*	*	1	0
277	6/13/2001	6/13/2001	29.8419	-89.3089	LAGU, SNEG, FOTE, ROYT	2	Saline	St. Bernard	*	*	*	3	2
278	6/14/1996	6/13/2001	29.5744	-89.5733	inactive	1	Saline	Plaquemines	*	*	*	3	0
279	4/26/1990	4/30/2001	29.9231	-92.8947	inactive	1	Fresh	Cameron	3	2	0	3	0
280	6/18/1999	6/10/2001	29.8161	-88.9772	inactive	1	Saline	St. Bernard	*	2	*	1	0
281	4/27/1988	6/10/2001	29.4986	-89.1725	inactive	1	Saline	Plaquemines	*	*	*	0	0
282	4/25/1997	5/2/2001	30.0856	-90.6333	inactive	1	Wetland Forest - Deciduous	St. John the Baptist	4	2	0	4	0
283	5/30/1990	6/13/2001	29.2386	-89.5492	inactive	1	Saline	Plaquemines	*	*	*	1	0
284	6/15/1999	6/13/2001	29.2892	-89.6728	inactive	1	Saline	Plaquemines	1	0	0	3	0
286	6/11/1999	6/12/2001	29.1617	-90.0914	inactive	1	Saline	Lafourche	*	*	*	2	0
287	6/8/1993	6/13/2001	28.9342	-89.4017	inactive	1	Wetland Barren	Plaquemines	*	*	*	2	0
288	7/16/1997	6/13/2001	29.0236	-89.2044	inactive	1	Saline	Plaquemines	*	*	*	2	0
289	5/23/1994	5/2/2001	30.1306	-91.5047	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	2	0
290	5/2/2001	5/2/2001	30.0567	-91.4583	GBHE, LBHE, GREG, SNEG, ANHI	2	Wetland Forest - Deciduous	Iberia	*	*	*	2	2
293	6/15/1995	4/30/2001	29.9756	-92.8783	inactive	1	Fresh	Cameron	*	*	*	2	0
294	4/30/2001	4/30/2001	30.6939	-92.0908	CAEG, GBHE, LBHE, GREG, SNEG	2	Wetland Forest - Deciduous	St. Landry	*	*	*	6	4
295	4/30/2001	4/30/2001	30.8014	-92.2442	ANHI, GREG, ROSP	3	Wetland Forest - Deciduous	Evangeline	*	*	*	3	2
296	6/8/1989	5/2/2001	29.4058	-90.2344	inactive	1	Upland Scrub/Shrub - Mixed	Lafourche	3	0	0	0	0
297	6/11/1990	6/12/2001	29.4811	-90.0667	inactive	1	Brackish	Jefferson	3	3	0	1	0
298	6/11/1999	6/12/2001	29.1714	-90.2961	inactive	1	Saline	Lafourche	*	*	*	2	0
299	6/11/1999	6/12/2001	29.1875	-90.3003	inactive	1	Wetland Barren	Lafourche	*	*	*	2	0
300	6/8/1993	6/12/2001	29.1911	-90.3242	inactive	1	Saline	Lafourche	3	3	0	1	0
302	7/13/1990	4/30/2001	29.9950	-92.9622	inactive	1	Fresh	Cameron	*	*	*	4	0
303	5/10/2001	5/10/2001	29.8995	-93.0802	GREG, ROSP, GBHE, CAEG, SNEG, ANHI	2	Fresh	Cameron	*	*	*	2	3
304	5/24/1994	5/2/2001	29.4994	-90.2975	inactive	1	Intermediate	Lafourche	*	*	*	1	0
305	5/28/1996	6/12/2001	29.7694	-93.1711	inactive	1	Saline	Cameron	1	*	*	2	0
308	5/2/2001	5/2/2001	29.6119	-90.9533	LBHE, GREG, SNEG, DAIB	2	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	*	2
309	5/2/2001	5/2/2001	29.5694	-90.9112	DAIB, SNEG, WHIB	3	Fresh	Terrebonne	*	*	*	*	4
310	6/4/1998	5/2/2001	29.4236	-91.0508	inactive	1	Fresh	Terrebonne	*	*	*	*	0
311	6/4/1998	5/2/2001	29.4289	-91.0944	inactive	1	Fresh	Terrebonne	*	*	*	*	0
312	5/2/2001	5/2/2001	29.4306	-91.1015	GREG, SNEG, ROSP, DAIB	3	Fresh	Terrebonne	*	*	*	*	3
313	5/27/1997	5/2/2001	29.4236	-91.1053	inactive	1	Fresh	Terrebonne	*	*	*	*	0
314	6/4/1997	5/2/2001	30.2381	-91.6453	inactive	1	Wetland Forest - Deciduous	St. Martin	1	*	*	*	*
315	6/4/1998	5/4/2001	29.5103	-90.7881	inactive	1	Wetland Scrub/Shrub - Deciduous	Terrebonne	7	*	*	*	*
317	6/14/1995	6/12/2001	29.2214	-90.0439	inactive	1	Saline	Jefferson	7	*	*	*	0
318	6/8/1993	6/13/2001	28.9842	-89.1508	inactive	1	Saline	Plaquemines	*	*	*	*	0
319	6/13/1995	6/13/2001	29.9833	-89.2500	inactive	1	Wetland Barren	St. Bernard	*	*	*	*	0
320	6/13/2001	6/13/2001	29.9369	-89.2858	LAGU	2	Saline	St. Bernard	*	*	*	*	1
322	6/12/1995	5/2/2001	30.0833	-90.6667	inactive	1	Wetland Forest - Deciduous	St. John the Baptist	*	*	*	*	0
323	6/14/1999	5/2/2001	30.2100	-90.7083	inactive	1	Wetland Forest - Deciduous	Livingston	*	*	*	*	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
324	6/14/1999	5/2/2001	30.3500	-90.3500	inactive	1	Agriculture - Cropland - Grassland	Tangipahoa	*	*	*	*	0
325	6/14/1993	5/2/2001	29.8833	-90.2833	inactive	1	Wetland Forest - Deciduous	St. Charles	*	*	*	*	0
327	6/21/1995	5/2/2001	29.7450	-91.7161	inactive	1	Upland Forest - Mixed	St. Mary	*	*	*	*	0
332	8/24/1994	5/2/2001	29.8675	-92.0939	inactive	1	Agriculture - Cropland - Grassland	Vermilion	*	*	*	*	0
333	5/2/2001	5/2/2001	30.6328	-91.6517	GREG, ANHI, GBHE	2	Wetland Forest - Deciduous	Pointe Coupee	*	*	*	*	1
335	6/4/1997	5/2/2001	29.8922	-90.8619	inactive	1	Wetland Forest - Deciduous	Lafourche	*	*	*	*	0
336	6/4/1997	5/2/2001	29.9489	-90.8728	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	0
337	6/11/1999	5/2/2001	29.5558	-90.8756	inactive	1	Fresh	Terrebonne	*	*	*	*	0
339	5/2/2001	5/2/2001	29.6625	-91.1913	ANHI, GBHE, TRHE, GREG	3	Wetland Forest - Deciduous	St. Mary	*	*	*	*	2
340	5/2/2001	5/2/2001	29.4994	-91.0033	DAIB, GREG, LBHE	3	Fresh	Terrebonne	*	*	*	*	2
341	5/27/1997	5/2/2001	29.4897	-90.7608	inactive	1	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	*	0
342	6/14/1995	5/2/2001	29.4953	-90.7644	inactive	1	Fresh	Terrebonne	*	*	*	*	0
343	5/2/2001	5/2/2001	29.4356	-90.2691	GREG	3	Wetland Forest - Deciduous	Lafourche	*	*	*	*	1
344	5/24/1994	5/2/2001	29.7947	-90.5139	inactive	1	Fresh	Lafourche	*	*	*	*	0
345	5/24/1994	5/2/2001	29.7842	-90.5186	inactive	1	Fresh	Lafourche	*	*	*	*	0
346	5/24/1994	5/2/2001	29.7883	-90.5183	inactive	1	Fresh	Lafourche	*	*	*	*	0
347	5/24/1994	5/2/2001	29.5028	-91.1708	inactive	1	Fresh	Terrebonne	*	*	*	*	0
348	5/24/1994	5/2/2001	29.5389	-91.1394	inactive	1	Wetland Forest - Mixed	Terrebonne	*	*	*	*	0
350	6/12/2001	6/12/2001	29.1024	-90.2151	BCNH, GREG, ROSP	3	Saline	Lafourche	*	*	*	*	2
351	5/27/1994	4/30/2001	30.0947	-92.3428	inactive	1	Wetland Forest - Deciduous	Vermilion	*	*	*	*	0
354	8/17/1993	6/12/2001	29.5167	-91.4656	inactive	1	Fresh	St. Mary	*	*	*	*	0
355	6/29/1996	6/12/2001	29.4328	-91.2694	inactive	1	Fresh	St. Mary	*	*	*	*	0
356	7/20/1997	6/12/2001	29.4572	-91.2664	inactive	1	Fresh	St. Mary	*	*	*	*	0
357	6/6/1995	6/12/2001	29.4106	-91.3289	inactive	1	Fresh	St. Mary	*	*	*	*	0
358	5/24/1994	5/2/2001	29.7911	-90.6403	inactive	1	Fresh	Lafourche	*	*	*	*	0
359	6/14/1996	6/12/2001	29.3042	-89.8844	inactive	1	Upland Barren	Plaquemines	*	*	*	*	0
360	6/24/1997	6/12/2001	29.0436	-90.7342	inactive	1	Saline	Terrebonne	*	*	*	*	0
361	6/14/1995	6/13/2001	29.0222	-89.2044	inactive	1	Fresh	Plaquemines	*	*	*	*	0
362	6/9/1997	6/12/2001	29.5219	-90.0972	inactive	1	Brackish	Jefferson	*	*	*	*	0
363	6/11/1995	5/2/2001	30.1361	-91.5147	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
364	6/4/1997	5/2/2001	30.3542	-91.6689	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
365	5/2/2001	5/2/2001	30.2586	-91.6481	GREG, GBHE, LBHE, CAEG, SNEG, ROSP, ANHI	2	Wetland Forest - Deciduous	St. Martin	*	*	*	*	4
366	5/2/2001	5/2/2001	30.0263	-91.2220	LBHE, TRHE, GREG, CAEG	3	Wetland Forest - Deciduous	Iberville	*	*	*	*	1
367	5/2/2001	5/2/2001	29.9419	-90.6556	ANHI, GBHE, GREG	2	Fresh	St. John the Baptist	*	*	*	*	2
368	6/9/1997	5/2/2001	29.9203	-90.6917	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	0
369	6/12/1995	5/2/2001	29.9464	-90.6406	inactive	1	Fresh	St. John the Baptist	*	*	*	*	0
370	5/2/2001	5/2/2001	29.8981	-90.2850	DAIB, SNEG	2	Fresh	St. Charles	*	*	*	*	4
371	5/2/2001	5/2/2001	29.6820	-91.4893	GBHE, GREG	3	Wetland Forest - Deciduous	St. Mary	*	*	*	*	2
372	6/14/1999	5/2/2001	29.7822	-90.6231	inactive	1	Fresh	Lafourche	*	*	*	*	0
373	6/17/1999	5/2/2001	29.8089	-90.6253	inactive	1	Fresh	Lafourche	*	*	*	*	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
374	6/11/1999	5/2/2001	29.5006	-90.6289	inactive	1	Intermediate	Terrebonne	*	*	*	*	0
375	6/13/2001	6/13/2001	29.5641	-89.5846	BLSK, LAGU	2	Saline	Plaquemines	*	*	*	*	1
379	6/4/1997	5/2/2001	30.2486	-91.5278	inactive	1	Fresh	Iberville	*	*	*	*	0
380	6/12/1995	5/2/2001	30.0119	-91.2044	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0
381	5/2/2001	5/2/2001	29.9514	-90.8822	GREG, GBHE	2	Wetland Forest - Deciduous	St. James	*	*	*	*	2
382	5/8/1995	5/2/2001	29.7344	-90.3311	inactive	1	Fresh	St. Charles	*	*	*	*	0
383	6/13/1995	5/2/2001	29.7894	-90.5114	inactive	1	Fresh	Lafourche	*	*	*	*	0
384	6/14/1999	5/2/2001	29.8061	-90.6339	inactive	1	Wetland Scrub- Shrub - Evergreen	Lafourche	*	*	*	*	0
385	7/12/1995	6/13/2001	29.3811	-89.6297	inactive	1	Saline	Plaquemines	*	*	*	*	0
387	6/14/1996	6/13/2001	29.3753	-89.3053	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
388	6/18/1998	6/13/2001	29.4017	-89.3044	inactive	1	Saline	Plaquemines	*	*	*	*	0
389	7/11/1995	6/13/2001	29.0394	-89.3367	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
390	6/9/1998	5/2/2001	30.3208	-91.4478	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
392	6/13/2001	6/13/2001	29.8042	-89.2853	LAGU, SNEG, TRHE, GREG	2	Saline	St. Bernard	*	*	*	*	3
393	6/15/1999	6/13/2001	29.0083	-89.1792	inactive	1	Fresh	Plaquemines	*	*	*	*	0
394	6/14/1995	6/13/2001	28.9633	-89.3672	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
395	6/14/1995	6/13/2001	29.0689	-89.2753	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
396	6/15/1999	6/13/2001	29.0739	-89.2753	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
397	6/18/1998	6/13/2001	29.0739	-89.2597	inactive	1	Fresh	Plaquemines	*	*	*	*	0
398	6/15/1999	6/13/2001	29.0756	-89.2639	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
399	5/15/1995	4/30/2001	30.3939	-92.4031	inactive	1	Vegetated Urban	Acadia	*	*	*	*	0
400	6/13/2001	6/13/2001	29.2656	-89.4069	SNEG	2	Intermediate	Plaquemines	*	*	*	*	3
401	6/13/2001	6/13/2001	29.2664	-89.3894	LAGU, WHIB	2	Fresh	Plaquemines	*	*	*	*	3
402	6/15/1999	6/13/2001	29.2839	-89.6406	inactive	1	Saline	Plaquemines	*	*	*	*	0
403	6/14/1995	6/13/2001	29.2833	-89.6500	inactive	1	Saline	Plaquemines	*	*	*	*	0
404	6/12/2001	6/12/2001	29.4678	-90.0124	FOTE	3	Saline	Jefferson	*	*	*	*	2
405	6/12/2001	6/12/2001	29.0773	-90.4054	ROYT	3	Saline	Lafourche	*	*	*	*	1
406	6/22/1998	6/12/2001	29.1717	-90.3483	inactive	1	Saline	Lafourche	*	*	*	*	0
407	6/12/2001	6/12/2001	29.2008	-90.3438	LAGU	3	Saline	Lafourche	*	*	*	*	3
408	6/11/1999	6/12/2001	29.1453	-90.3458	inactive	1	Saline	Lafourche	*	*	*	*	0
409	6/12/2001	6/12/2001	29.1394	-90.3506	BRPE, LAGU, ROYT	2	Saline	Lafourche	*	*	*	*	4
410	5/9/1995	5/2/2001	29.6231	-90.7089	inactive	1	Vegetated Urban	Terrebonne	*	*	*	*	0
412	6/8/1999	5/2/2001	29.8964	-91.1942	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0
413	6/21/1995	5/2/2001	29.9472	-91.1572	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0
414	6/21/1995	5/2/2001	30.0061	-91.1372	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0
415	5/2/2001	5/2/2001	29.8906	-91.1214	GBHE, ANHI	2	Wetland Forest - Deciduous	Assumption	*	*	*	*	1
416	6/8/1999	5/2/2001	29.4939	-91.0222	inactive	1	Fresh	Terrebonne	*	*	*	*	0
417	5/2/2001	5/2/2001	29.4894	-91.0303	GREG, ROSP, SNEG	3	Fresh	Terrebonne	*	*	*	*	1
418	6/4/1998	5/2/2001	29.6464	-91.3972	inactive	1	Wetland Forest - Deciduous	St. Mary	*	*	*	*	0
420	4/30/2001	4/30/2001	30.0014	-92.9533	WHIB, GBHE, LBHE, TRHE, YCNH, GREG, CAEG, SNEG, ROSP, ANHI, WHIB	2	Fresh	Cameron	*	*	*	*	4
421	5/15/1996	5/2/2001	30.5314	-91.6989	inactive	1	Wetland Forest - Deciduous	Pointe Coupee	*	*	*	*	0
422	5/28/1996	5/2/2001	29.8483	-92.1317	inactive	1	Wetland Forest - Deciduous	Vermilion	*	*	*	*	0
423	5/28/1969	6/12/2001	29.6683	-92.8583	inactive	1	Saline	Cameron	*	*	*	*	0

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY					
									76	78	83	90	01	
424	4/30/2001	4/30/2001	30.1600	-92.9100	GBHE, LBHE, GREG, SNEG, ROSP, ANHI,	2	Wetland Scrub/shrub - Deciduous	Jefferson Davis	*	*	*	*	*	4
425	5/28/1996	4/30/2001	29.8375	-93.3517	inactive	1	Agriculture - Cropland - Grassland	Cameron	*	*	*	*	*	0
438	6/11/1996	4/30/2001	30.2500	-92.9808	inactive	1	Wetland Scrub/Shrub - Deciduous	Jefferson Davis	*	*	*	*	*	0
439	6/12/2001	6/12/2001	29.5597	-92.0099	BLSK, GBTE	3	Saline	Iberia	*	*	*	*	*	4
440	6/12/2001	6/12/2001	29.2647	-90.4450	BCNH, BLSK, TRHE, SNEG, LAGU, ROSP, FOTE, GBTE, WHIB	2	Saline	Terrebonne	*	*	*	*	*	4
441	6/13/2001	6/13/2001	29.6714	-89.4717	LAGU	2	Saline	St. Bernard	*	*	*	*	*	1
442	6/13/2001	6/13/2001	29.9936	-89.2600	LAGU	2	Saline	St. Bernard	*	*	*	*	*	1
443	6/10/1997	6/12/2001	29.3042	-89.8750	inactive	1	Saline	Plaquemines	*	*	*	*	*	0
444	6/12/2001	6/12/2001	29.3262	-89.9027	BLSK, FOTE	3	Saline	Plaquemines	*	*	*	*	*	2
445	6/14/1996	6/12/2001	29.3331	-89.8903	inactive	1	Saline	Plaquemines	*	*	*	*	*	0
446	6/15/1999	6/12/2001	29.4286	-89.8500	inactive	1	Saline	Plaquemines	*	*	*	*	*	0
447	6/10/1997	6/13/2001	29.2764	-89.6300	inactive	1	Saline	Plaquemines	*	*	*	*	*	0
448	5/2/2001	5/2/2001	29.6534	-90.4280	GREG	3	Wetland Forest - Deciduous	Lafourche	*	*	*	*	*	2
449	6/22/1998	5/2/2001	29.7414	-90.3394	inactive	1	Fresh	St. Charles	*	*	*	*	*	0
454	4/30/2001	4/30/2001	29.6361	-92.5667	GREG, NECO, WHIB	2	Brackish	Vermilion	*	*	*	*	*	1
457	5/2/2001	5/2/2001	29.9589	-90.4647	GREG	2	Wetland Forest - Deciduous	St. Charles	*	*	*	*	*	1
458	6/13/2001	6/13/2001	29.5242	-89.5389	LAGU, TRHE, LBHE, WHIB	2	Saline	Plaquemines	*	*	*	*	*	3
460	6/3/1994	6/12/2001	29.4019	-91.3719	inactive	1	Fresh	St. Mary	*	*	*	*	*	0
461	6/12/2001	6/12/2001	29.3944	-91.3767	no species given	3	Fresh	St. Mary	*	*	*	*	*	11
462	6/12/2001	6/12/2001	29.3908	-91.3833	FOTE, SATE, GBTE	2	Fresh	St. Mary	*	*	*	*	*	2
463	7/1/1997	6/12/2001	29.5139	-91.4417	inactive	1	Fresh	St. Mary	*	*	*	*	*	0
464	5/18/1996	6/12/2001	29.5125	-91.4333	inactive	1	Fresh	St. Mary	*	*	*	*	*	0
465	6/9/1997	6/13/2001	29.8031	-90.5981	inactive	1	Wetland Forest - Deciduous	Lafourche	*	*	*	*	*	0
466	6/9/1998	5/2/2001	29.8850	-90.4633	inactive	1	Wetland Forest - Deciduous	St. Charles	*	*	*	*	*	0
467	6/9/1997	5/2/2001	30.0936	-90.6872	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	*	0
468	5/4/2001	5/4/2001	30.3495	-90.4341	GBHE, GREG, SNEG	3	Wetland Forest - Deciduous	Tangipahoa	*	*	*	*	*	2
469	6/18/1998	6/13/2001	29.0167	-89.1933	inactive	1	Intermediate	Plaquemines	*	*	*	*	*	0
470	6/10/1997	6/13/2001	29.2650	-89.3425	inactive	1	Fresh	Plaquemines	*	*	*	*	*	0
471	6/13/2001	6/13/2001	29.3969	-89.3022	BRPE, LAGU	2	Intermediate	Plaquemines	*	*	*	*	*	5
472	4/30/2001	4/30/2001	29.9911	-92.7347	CAEG, DAIB, GREG, LBHE	2	Fresh	Cameron	*	*	*	*	*	5
473	5/28/1997	4/30/2001	29.8167	-93.0000	inactive	1	Intermediate	Cameron	*	*	*	*	*	0
475	5/28/1997	4/30/2001	30.5000	-92.9333	inactive	1	Upland Forest - Mixed	Allen	*	*	*	*	*	0
476	6/15/1999	6/13/2001	29.5692	-89.5867	inactive	1	Saline	Plaquemines	*	*	*	*	*	0
477	6/12/2001	6/12/2001	29.3472	-89.8669	no species given	2	Saline	Plaquemines	*	*	*	*	*	11
478	6/12/2001	6/12/2001	29.3431	-89.8706	CAEG, LAGU, WHIB	2	Saline	Plaquemines	*	*	*	*	*	4
479	6/12/2001	6/12/2001	29.3333	-89.8714	LAGU	2	Saline	Plaquemines	*	*	*	*	*	1
480	6/10/1997	6/12/2001	29.0556	-90.8036	inactive	1	Saline	Terrebonne	*	*	*	*	*	0
482	6/15/1995	4/30/2001	29.9500	-92.8833	inactive	1	Fresh	Cameron	*	*	*	*	*	0
483	4/30/2001	4/30/2001	30.0000	-92.8250	WHIB	2	Fresh	Cameron	*	*	*	*	*	2
484	6/4/1997	5/2/2001	30.4967	-91.7017	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	*	0
485	5/27/1997	5/2/2001	30.3603	-91.4619	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	*	0
486	6/4/1998	5/2/2001	29.5444	-91.1689	inactive	1	Wetland Forest - Deciduous	Terrebonne	*	*	*	*	*	0

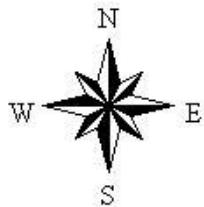
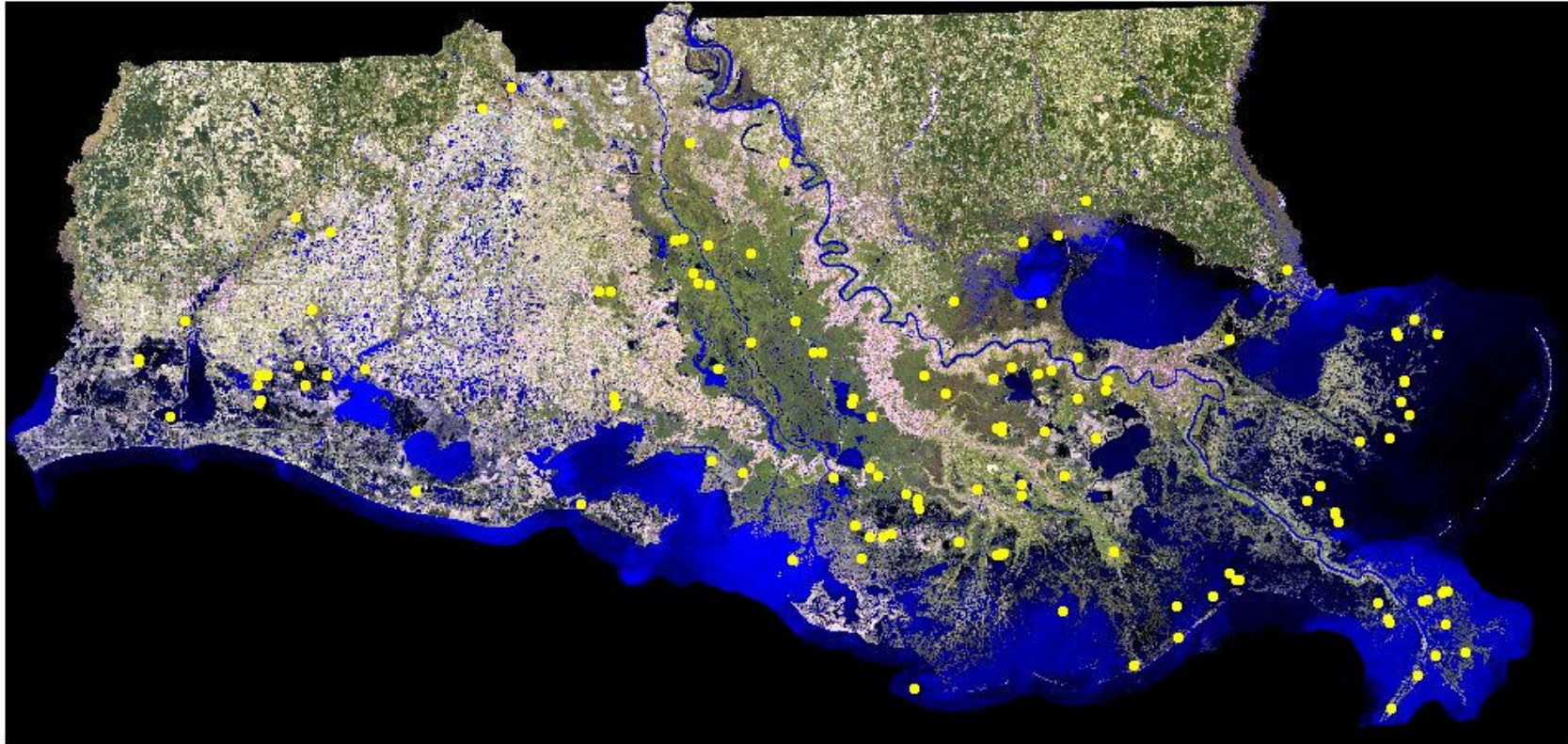
COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
487	6/4/1998	5/2/2001	29.5131	-91.1406	inactive	1	Fresh	Terrebonne	*	*	*	*	0
488	5/27/1997	5/2/2001	30.3275	-91.4656	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
489	6/11/1999	5/10/2001	29.5106	-90.7942	inactive	1	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	*	0
490	6/8/1999	5/4/2001	30.4289	-91.6247	inactive	1	Agriculture - Cropland - Grassland	Iberville	*	*	*	*	0
491	6/4/1997	5/2/2001	30.4650	-91.6575	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
492	6/11/1999	5/2/2001	29.4972	-90.6678	inactive	1	Wetland Forest - Deciduous	Terrebonne	*	*	*	*	0
493	1992	5/2/2001	29.4264	-91.3117	inactive	1	Fresh	St. Mary	*	*	*	*	0
494	6/8/1999	6/12/2001	29.4478	-91.2642	inactive	1	Fresh	St. Mary	*	*	*	*	0
495	4/24/1998	4/30/2001	30.4064	-92.3289	inactive	1	Agriculture - Cropland - Grassland	Acadia	*	*	*	*	0
496	5/2/2001	5/2/2001	29.9833	-91.5667	GBHE, GREG	2	Wetland Forest - Deciduous	Iberia	*	*	*	*	2
497	5/2/2001	5/2/2001	29.7178	-91.5922	LBHE, SNEG	2	Fresh	St. Mary	*	*	*	*	2
498	6/8/1999	5/2/2001	29.6631	-91.4606	inactive	1	Wetland Forest - Deciduous	St. Mary	*	*	*	*	0
499	6/8/1999	5/2/2001	29.5458	-91.1539	inactive	1	Wetland Scrub- Shrub - Evergreen	Terrebonne	*	*	*	*	0
500	5/2/2001	5/2/2001	30.0250	-91.2483	GBHE, GREG	2	Wetland Forest - Deciduous	Iberia	*	*	*	*	2
501	6/14/1999	5/2/2001	29.9592	-90.5364	inactive	1	Fresh	St. John the Baptist	*	*	*	*	0
502	6/14/1999	5/2/2001	29.9622	-90.9106	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	0
503	5/2/2001	5/2/2001	30.2278	-91.6278	CAEG, SNEG	2	Wetland Scrub/Shrub - Deciduous	St. Martin	*	*	*	*	2
504	6/9/1998	6/9/1998	30.4803	-91.6656	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
505	6/13/2001	6/13/2001	30.0317	-89.3153	WHIB, CATE, LAGU, BCNH	2	Saline	St. Bernard	*	*	*	*	3
506	6/13/2001	6/13/2001	30.0364	-89.3167	WHIB, LAGU	2	Saline	St. Bernard	*	*	*	*	3
507	6/13/2001	6/13/2001	30.0431	-89.3211	BCNH, LAGU, CATE, WHIB	2	Saline	St. Bernard	*	*	*	*	2
508	6/13/2001	6/13/2001	30.0553	-89.3486	LAGU	2	Saline	St. Bernard	*	*	*	*	1
509	6/13/2001	6/13/2001	30.0533	-89.3550	SATE	2	Saline	St. Bernard	*	*	*	*	1
510	6/17/1998	5/4/2001	30.3928	-90.4472	inactive	1	Wetland Forest - Deciduous	Tangipahoa	*	*	*	*	0
511	6/8/1999	5/2/2001	30.2900	-91.4217	inactive	1	Wetland Scrub/Shrub - Deciduous	Iberville	*	*	*	*	0
512	5/2/2001	5/2/2001	30.3522	-91.7039	LBHE, TRHE, GREG, CAEG, SNEG	2	Wetland Forest - Deciduous	St. Martin	*	*	*	*	1
513	5/2/2001	5/2/2001	30.2069	-91.9594	CAEG, LBHE, SNEG	2	Wetland Forest - Deciduous	St. Martin	*	*	*	*	3
514	6/13/2001	6/13/2001	29.6569	-89.4650	FOTE, GBTE, SATE	2	Saline	St. Bernard	*	*	*	*	2
515	5/2/2001	5/2/2001	29.7619	-90.3231	DAIB, LBHE, TRHE, SNEG	2	Fresh	St. Charles	*	*	*	*	2
516	5/2/2001	5/2/2001	29.9297	-90.2775	CAEG, GREG, LBHE, TRHE, SNEG	2	Fresh	St. Charles	*	*	*	*	2
517	6/22/1998	6/12/2001	29.1933	-90.2986	inactive	1	Saline	Lafourche	*	*	*	*	0
518	6/13/2001	6/13/2001	29.9169	-89.4189	FOTE	2	Saline	St. Bernard	*	*	*	*	1
519	6/13/2001	6/13/2001	29.8978	-89.3003	SNEG, TRHE, LAGU	2	Saline	St. Bernard	*	*	*	*	4
520	5/27/1997	6/13/2001	29.8933	-89.3114	inactive	1	Saline	St. Bernard	*	*	*	*	0
521	5/20/1997	6/12/2001	29.0577	-90.3316	inactive	1	Saline	Lafourche	*	*	*	*	0
524	6/18/1998	6/13/2001	29.3828	-89.3111	inactive	1	Saline	Plaquemines	*	*	*	*	0
525	6/13/2001	6/13/2001	29.9058	-89.2950	LAGU, LBHE, TRHE, SNEG, BLSK	2	Saline	St. Bernard	*	*	*	*	2
530	6/8/1999	5/2/2001	30.4325	-91.6450	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
531	5/2/2001	5/2/2001	30.3372	-91.6003	LBHE, GREG, SNEG	2	Wetland Forest - Deciduous	Iberville	*	*	*	*	2

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	01
532	5/22001	5/2/2001	30.3406	-91.5961	LBHE, CAEG	2	Wetland Forest - Deciduous	Iberville	*	*	*	*	1
533	5/2/2001	5/2/2001	30.3147	-91.4553	GBHE, GREG	2	Wetland Forest - Deciduous	Iberville	*	*	*	*	1
534	5/2/2001	5/2/2001	29.8767	-91.1261	GBHE, GREG	2	Wetland Forest - Deciduous	Assumption	*	*	*	*	1
535	5/2/2001	5/2/2001	29.5253	-91.1242	DAIB, LBHE, WHIB	2	Fresh	Terrebonne	*	*	*	*	4
536	5/2/2001	5/2/2001	29.9969	-90.3778	ANHI, GBHE, GREG	2	Weland Forest -Deciduous	St. Charles	*	*	*	*	2
537	5/2/2001	5/2/2001	29.7831	-90.4903	CAEG, LBHE	2	Fresh	Lafourche	*	*	*	*	4
538	6/14/1999	5/2/2001	29.7739	-90.4994	inactive	1	Fresh	Lafourche	*	*	*	*	0
539	6/14/1999	5/2/2001	30.1550	-90.7731	inactive	1	Wetland Forest - Deciduous	Ascension	*	*	*	*	0
540	5/4/2001	5/4/2001	29.2661	-89.2592	GREG, SNEG	2	Intermediate	Plaquemines	*	*	*	*	1
541	6/13/2001	6/13/2001	30.0517	-89.2617	WHIB, LAGU	2	Saline	St. Bernard	*	*	*	*	2
542	6/13/2001	6/13/2001	30.0356	-89.2969	LAGU, CATE	2	Saline	St. Bernard	*	*	*	*	2
543	6/18/1999	6/10/2001	29.7719	-88.8642	inactive	1	Saline	St. Bernard	*	*	*	*	0
545	6/15/1999	6/13/2001	29.3753	-89.3125	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
546	6/15/1999	6/13/2001	29.3844	-89.3097	inactive	1	Saline	Plaquemines	*	*	*	*	0
547	6/8/1999	5/2/2001	30.2619	-91.6608	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
548	6/12/2001	6/12/2001	29.3449	-89.8600	GREG, LAGU, ROSP, WHIB	3	Saline	Plaquemines	*	*	*	*	4
549	5/2/2001	5/2/2001	29.4908	-91.0737	BCNH, DAIB, GREG, LBHE, TRHE	3	Wetland Scrub/Shrub - Mixed	Terrebonne	*	*	*	*	3
550	6/15/1999	6/13/2001	29.4025	-89.2978	inactive	1	Saline	Plaquemines	*	*	*	*	0
551	5/16/1999	6/13/2001	30.1178	-89.1828	inactive	1	Saline	St. Bernard	*	*	*	*	0
552	7/9/1997	6/10/2001	29.8342	-88.9203	inactive	1	Saline	St. Bernard	*	*	*	*	0
553	5/20/1997	6/12/2001	29.4239	-89.8444	inactive	1	Saline	Plaquemines	*	*	*	*	0
554	6/19/1997	6/12/2001	29.2228	-91.1919	inactive	1	Saline	Terrebonne	*	*	*	*	0
555	6/19/1997	6/12/2001	29.2225	-91.1689	inactive	1	Saline	Terrebonne	*	*	*	*	0
556	6/14/1997	6/12/2001	29.0439	-90.8231	inactive	1	Saline	Terrebonne	*	*	*	*	0
557	5/21/1997	6/12/2001	29.2156	-90.4333	inactive	1	Saline	Terrebonne	*	*	*	*	0
558	5/21/1997	6/12/2001	29.2483	-90.4444	inactive	1	Saline	Terrebonne	*	*	*	*	0
559	6/13/2001	6/13/2001	29.0267	-89.2292	LAGU, ROYT, CATE	2	Fresh	Plaquemines	*	*	*	*	3
560	4/12/2000	6/13/2001	29.2264	-89.3872	inactive	1	Fresh	Plaquemines	*	*	*	*	0
561	5/4/2000	6/12/2001	29.0797	-90.2736	inactive	1	Saline	Lafourche	*	*	*	*	0
562	5/4/2001	5/4/2001	30.3631	-90.3584	WHIB	4	Wetland Forest - Deciduous	Tangipahoa	*	*	*	*	5
564	4/30/2001	4/30/2001	30.4254	-92.9653	CAEG, GREG, LBHE, SNEG, ROSP	4	Upland Forest - Evergreen	Jefferson Davis	*	*	*	*	2
565	5/4/2001	5/4/2001	29.2707	-89.2443	LBHE, SNEG	4	Intermediate	Plaquemines	*	*	*	*	2
566	5/4/2001	5/4/2001	29.2938	-89.1796	GREG, SNEG	4	Fresh	Plaquemines	*	*	*	*	1
567	5/4/2001	5/4/2001	29.2951	-89.1878	SNEG	4	Fresh	Plaquemines	*	*	*	*	1
568	4/30/2001	4/30/2001	30.1292	-93.3308	GREG, ROSP, BCNH	4	Wetland Scrub/Shrub - Mixed	Calcasieu	*	*	*	*	1
569	5/4/2001	5/4/2001	30.0378	-89.8739	ANHI, GBHE, GREG, SNEG	4	Wetland Forest - Deciduous	Orleans	*	*	*	*	3
570	6/12/2001	6/12/2001	29.1024	-90.2151	LBHE, TRHE, BCNH, GREG, SNEG	4	Saline	Lafourche	*	*	*	*	3
571	6/13/2001	6/13/2001	29.2089	-89.3738	GREG	4	Fresh	Plaquemines	*	*	*	*	1
572	6/13/2001	6/13/2001	29.0539	-89.2864	SNEG, GREG	4	Intermediate	Plaquemines	*	*	*	*	1
573	6/13/2001	6/13/2001	28.9592	-89.3757	SNEG, GNHE, DAIB	4	Upland Scrub/Shrub - Mixed	Plaquemines	*	*	*	*	2
574	6/13/2001	6/13/2001	29.1994	-89.1881	GREG	4	Fresh	Plaquemines	*	*	*	*	1
575	6/13/2001	6/13/2001	29.5639	-89.6297	GREG, LAGU	4	Saline	Plaquemines	*	*	*	*	2
576	6/13/2001	6/13/2001	30.0391	-89.3222	LAGU	4	Saline	St. Bernard	*	*	*	*	1
577	6/13/2001	6/13/2001	30.0787	-89.2600	SNEG, LAGU	4	Saline	St. Bernard	*	*	*	*	1
578	6/13/2001	6/13/2001	30.0061	-89.2554	BLSK, LAGU	4	Saline	St. Bernard	*	*	*	*	2

COLONY NUMBER	LASTOBS	LASTSVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY					
									76	78	83	90	01	
579	6/13/2001	6/13/2001	29.6093	-89.5858	BLSK, LAGU, GREG, FOTE	4	Saline	Plaquemines	*	*	*	*	*	2
580	6/13/2001	6/13/2001	29.5809	-89.5479	LAGU, BLSK	4	Saline	Plaquemines	*	*	*	*	*	2
581	5/2/2001	5/2/2001	29.6338	-90.5712	SNEG	4	Fresh	Lafourche	*	*	*	*	*	5
582	5/2/2001	5/2/2001	29.4337	-90.6547	GREG, SNEG	4	Wetland Scrub- Shrub - Evergreen	Terrebonne	*	*	*	*	*	1
583	5/2/2001	5/2/2001	29.4329	-90.6432	SNEG	4	Intermediate	Terrebonne	*	*	*	*	*	1
584	5/2/2001	5/2/2001	29.4367	-90.6353	GREG, LBHE, TRHE, SNEG	4	Intermediate	Terrebonne	*	*	*	*	*	2
585	5/2/2001	5/2/2001	29.4364	-90.6412	BCNH, LBHE, GREG, SNEG	4	Intermediate	Terrebonne	*	*	*	*	*	2
587	6/10/2001	6/10/2001	29.9680	-92.9215	WHIB	4	Fresh	Cameron	*	*	*	*	*	1
588	6/10/2001	6/10/2001	30.0833	-92.8333	GNHE	4	Wetland Forest - Deciduous	Cameron	*	*	*	*	*	1
589	6/10/2001	6/10/2001	30.3833	-92.8500	GREG	4	Upland Forest - Deciduous	Jefferson Davis	*	*	*	*	*	1
590	6/10/2001	6/10/2001	29.9717	-93.0863	GREG, NECO, GBHE	4	Fresh	Cameron	*	*	*	*	*	1
591	5/10/2001	5/10/2001	29.9783	-93.0670	WHIB	4	Fresh	Cameron	*	*	*	*	*	3
592	5/10/2001	5/10/2001	29.9718	-93.0715	GREG, CAEG, GBHE, LBHE, TRHE, GNHE, BCNH, SNEG, ROSP, ANHI, WHIB, NECO	4	Fresh	Cameron	*	*	*	*	*	4
593	5/10/2001	5/10/2001	29.9627	-93.0763	WHIB	4	Fresh	Cameron	*	*	*	*	*	3
594	5/10/2001	5/10/2001	29.9690	-93.0610	LBHE, GREG, CAEG, ROSP, ANHI, NECO	4	Fresh	Cameron	*	*	*	*	*	1
595	5/10/2001	5/10/2001	29.8912	-93.0863	GREG, SNEG, WHIB	4	Fresh	Cameron	*	*	*	*	*	2
596	5/10/2001	5/10/2001	29.9228	-93.5402	NECO	4	Fresh	Cameron	*	*	*	*	*	2
597	5/10/2001	5/10/2001	29.9915	-93.3378	GREG, SNEG, WHIB, DAIB	4	Upland Scrub/Shrub - Mixed	Cameron	*	*	*	*	*	11

Heron and Egret Locations

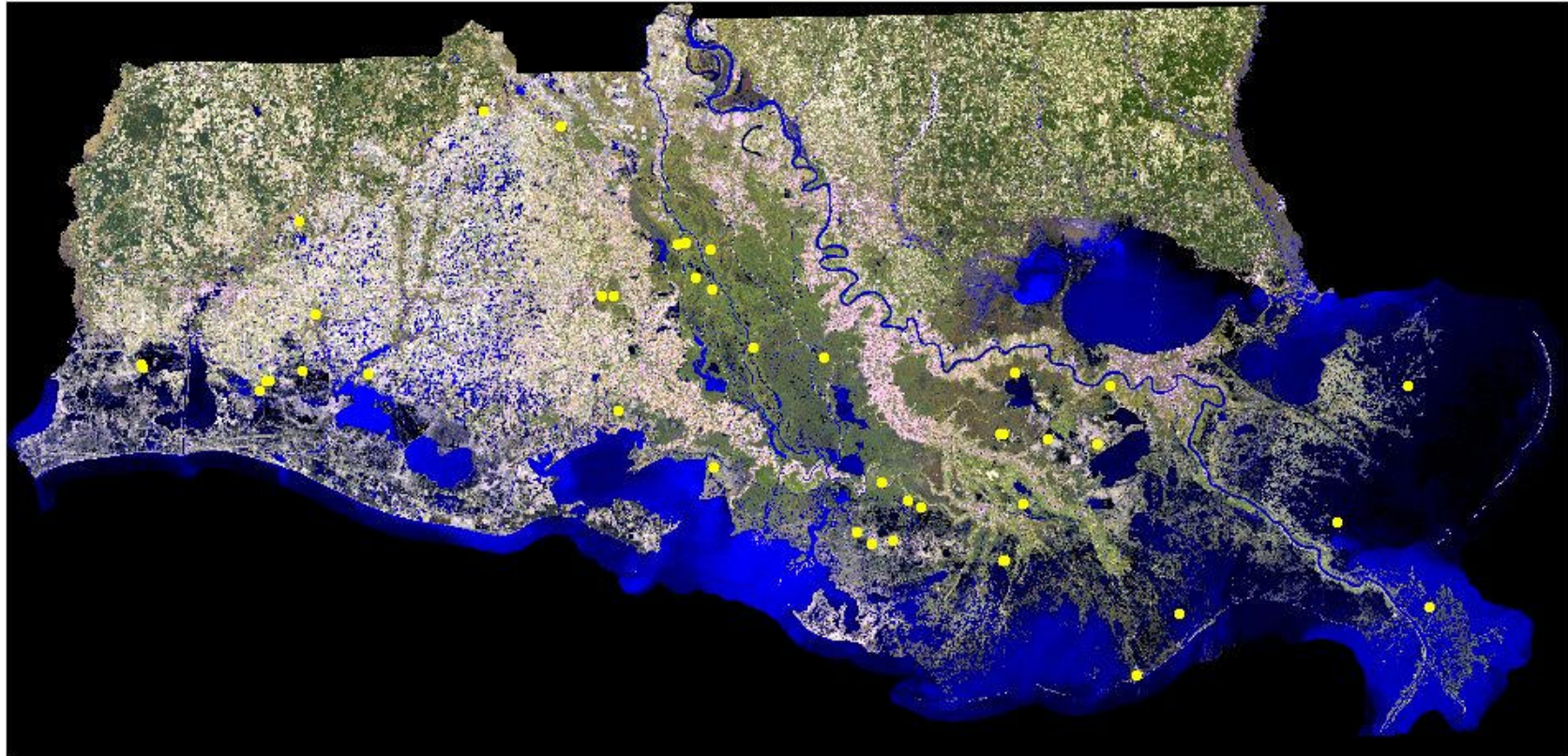
D-1



● Locations of colonies containing herons and egrets:
GBHE, LBHE, TRHE, YCNH, GNHE, BCNH
GREG, CAEG, SNEG
(see Appendix A for species abbreviations).



Little Blue Heron Locations



D - 2

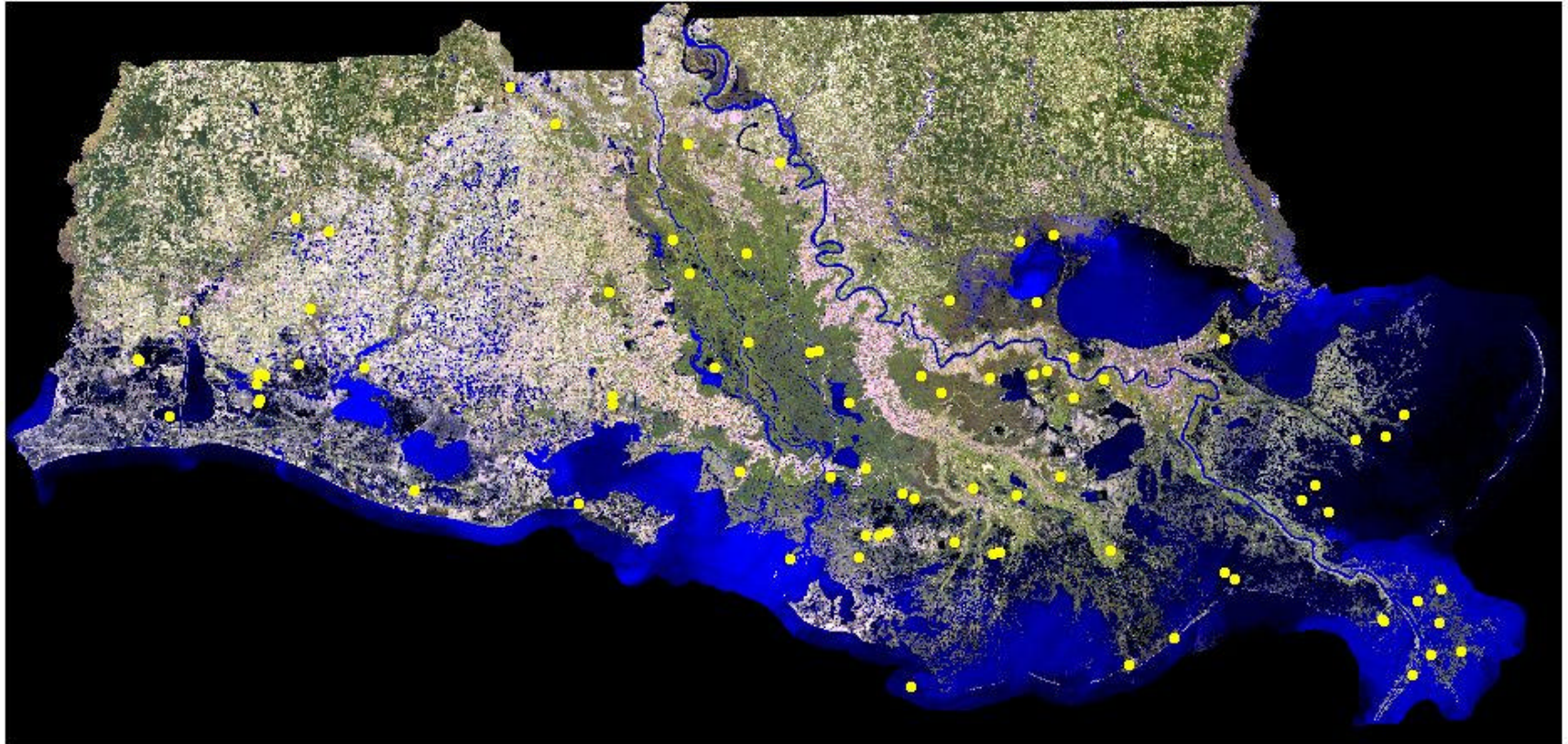


● Little blue heron locations



Great Egret Locations

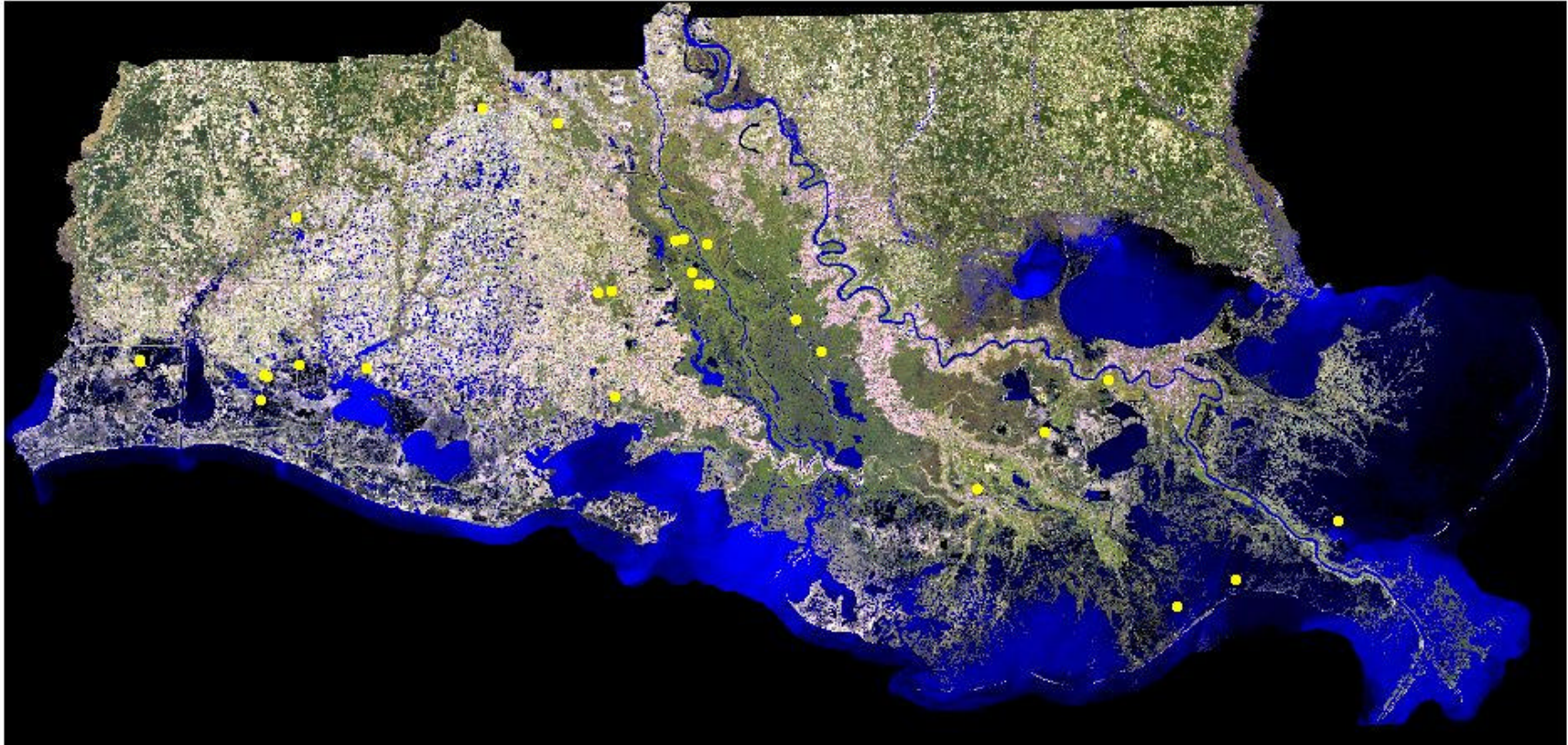
D - 3



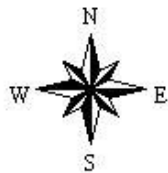
● Great egret locations



Cattle Egret Locations



D-4

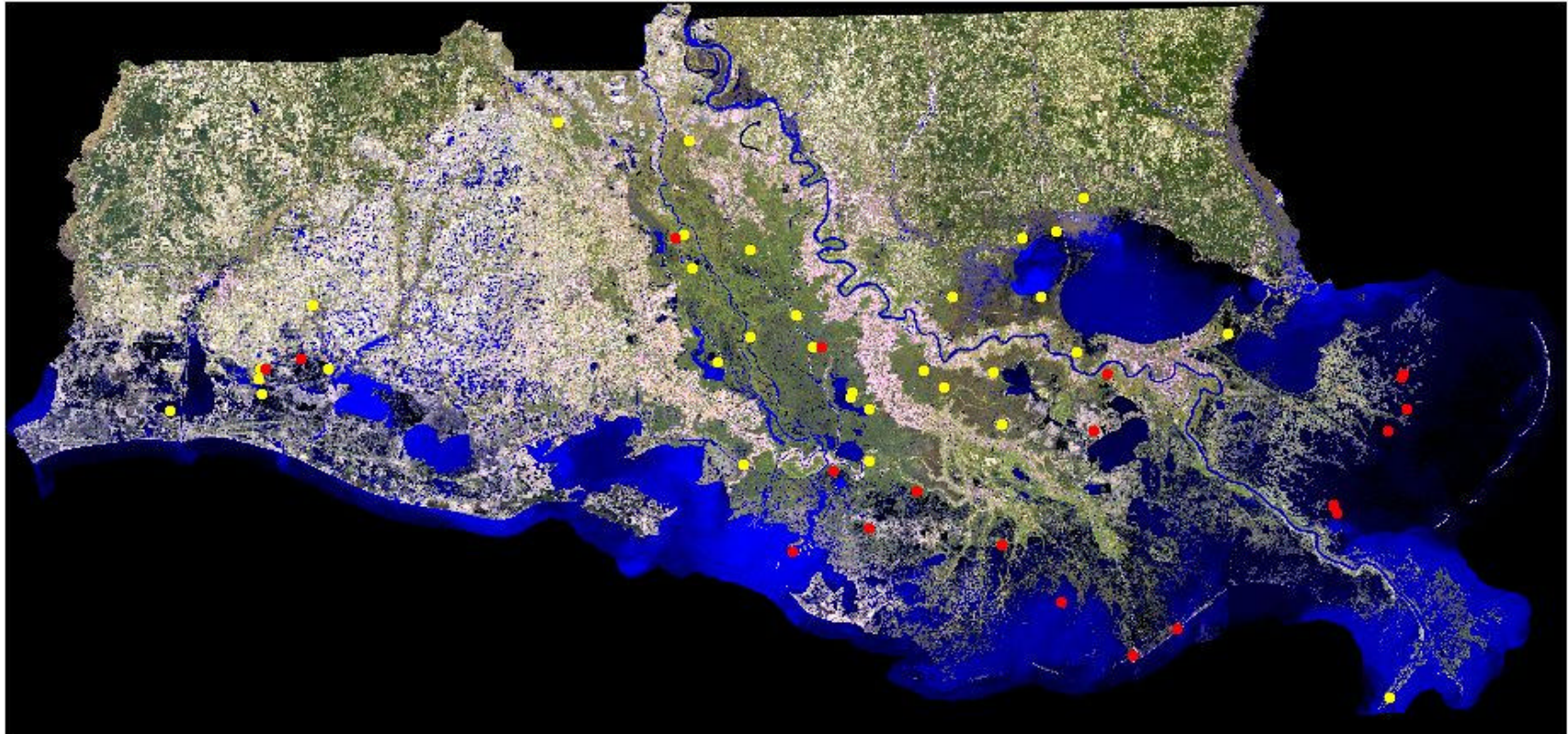


● Cattle egret locations



Great Blue Heron and Tricolored Heron Locations

D-5

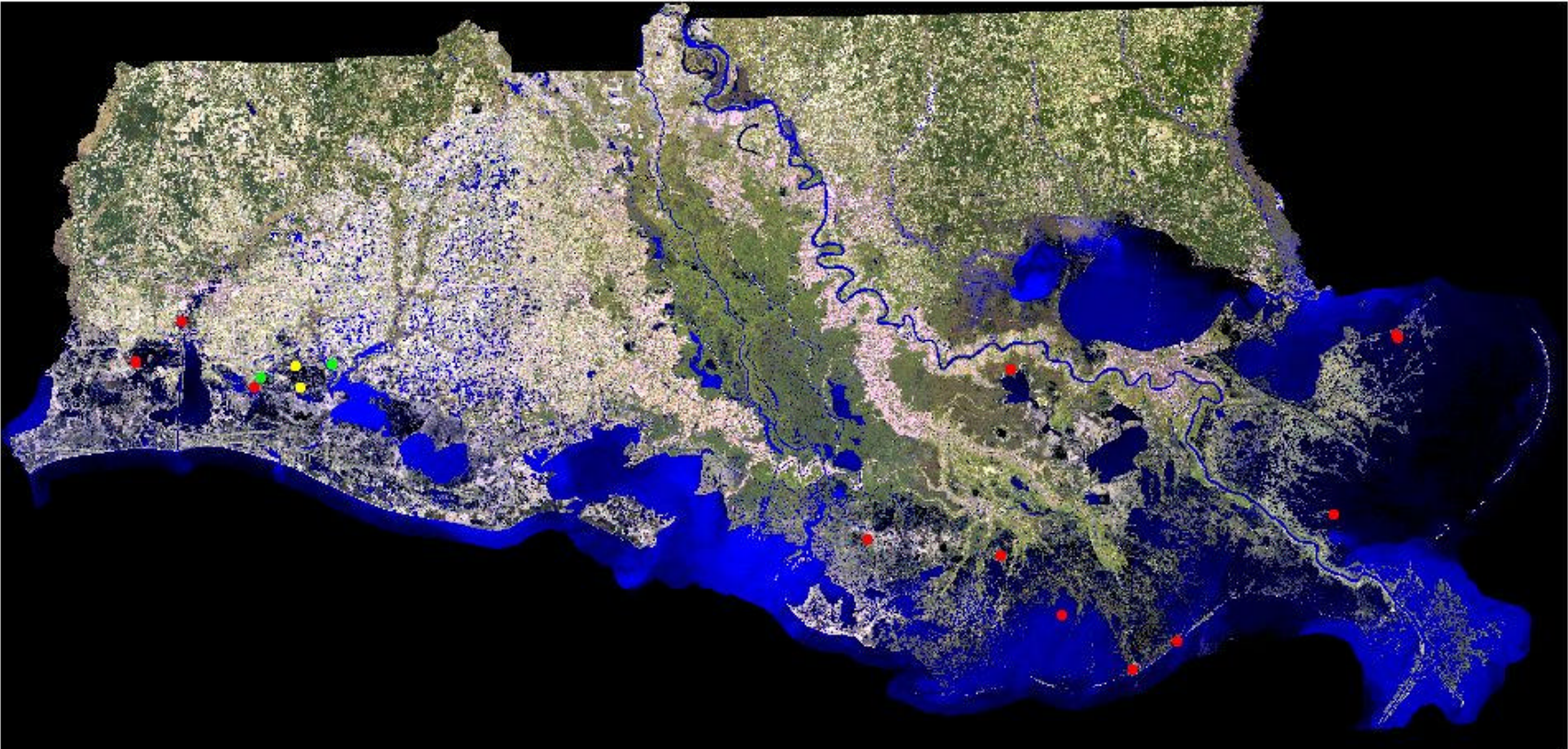


- Tricolored heron locations
- Great blue heron locations

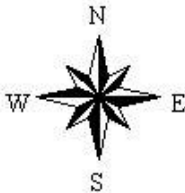


Green heron, Black-crowned night-heron and Yellow-crowned night-heron locations

D - 6

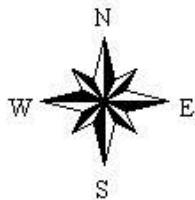
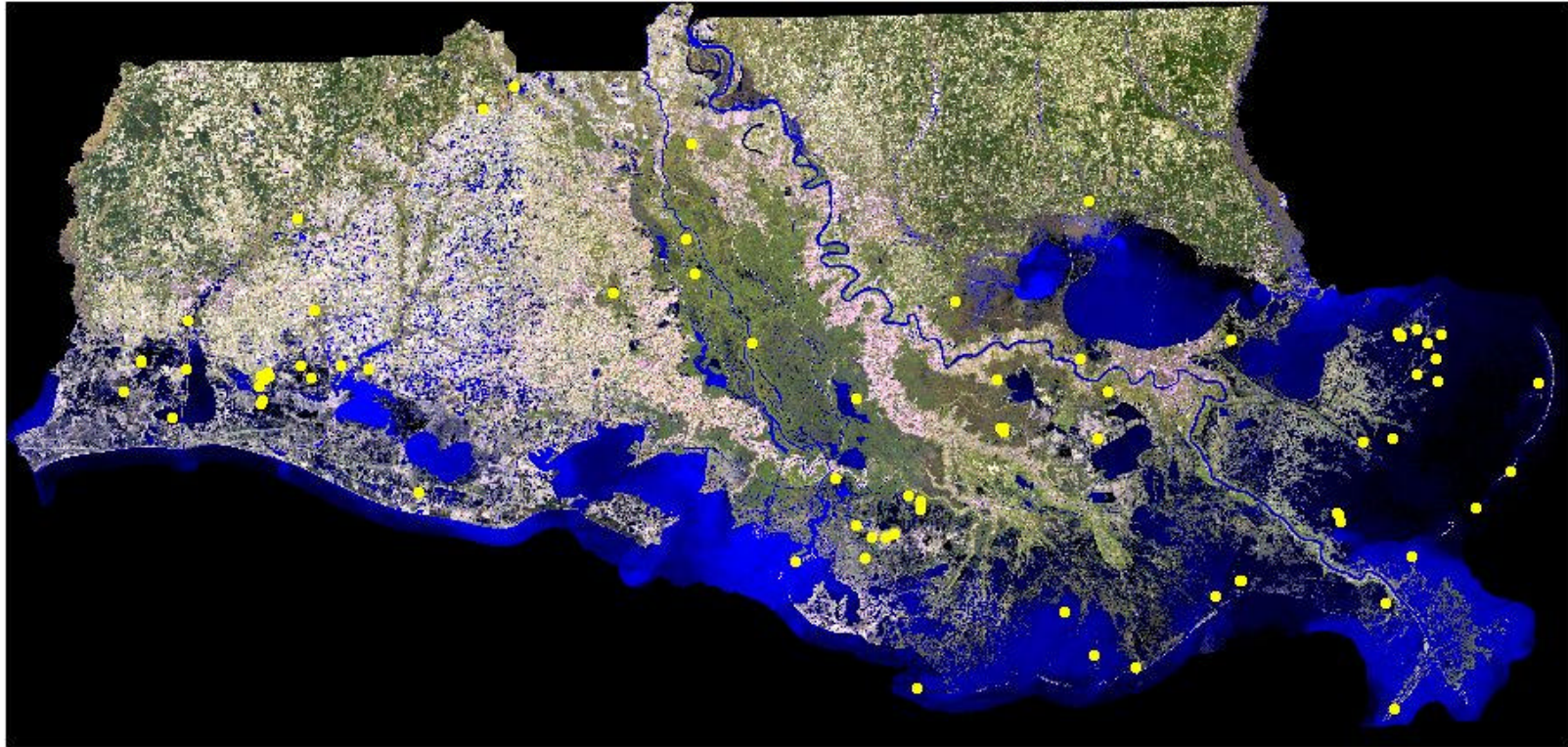


- Green heron locations
- Black-crowned night-heron locations
- Yellow-crowned night-heron locations



Miscellaneous Large Bird Locations

E-1

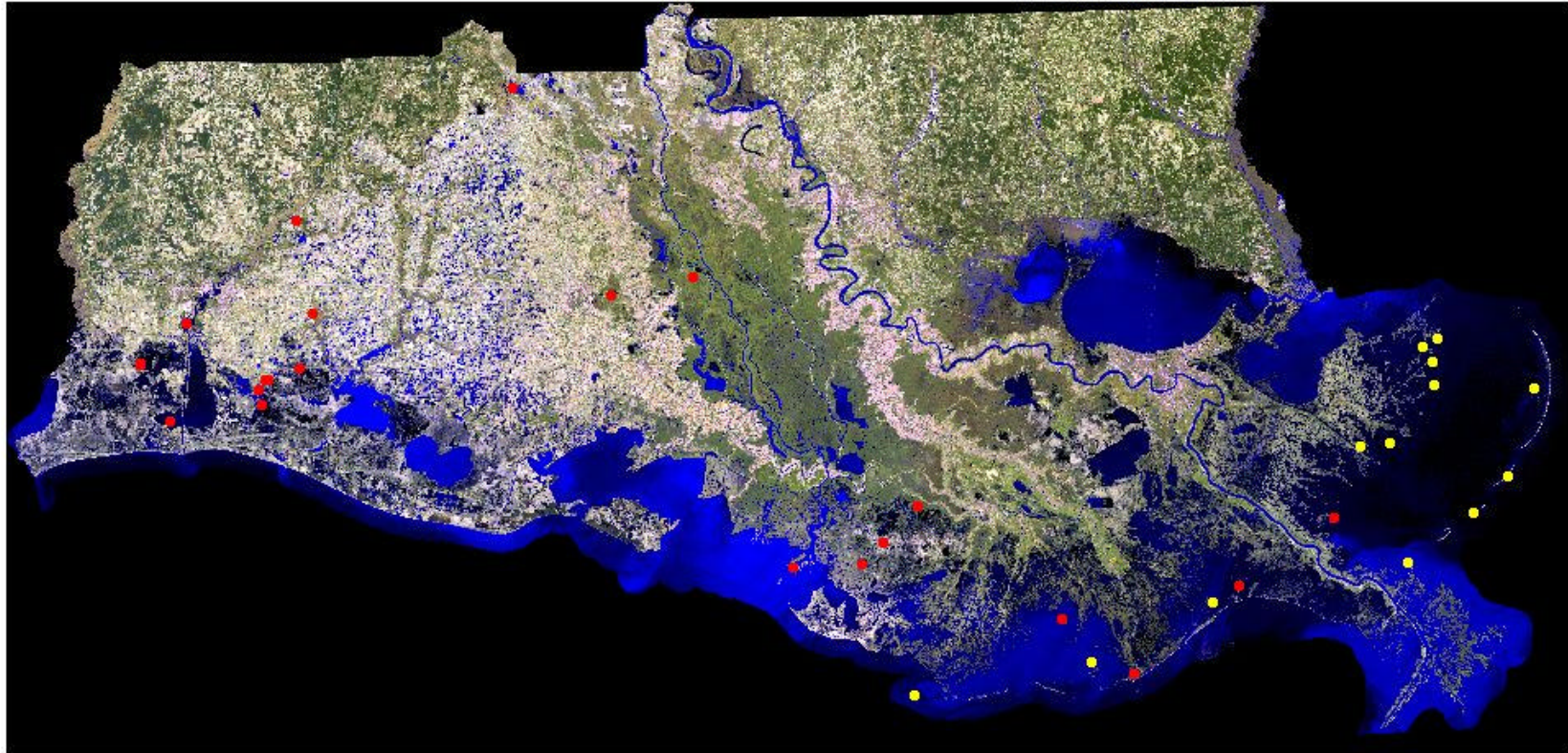


● Locations of colonies containing miscellaneous large birds:
BRPE, RO SP, ANHI, DAIB, WHIB
(see Appendix A for species abbreviations).



Brown Pelican and Roseate Spoonbill Locations

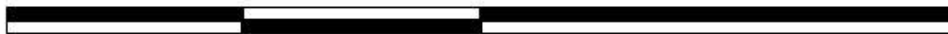
E - 2



90

0

90 Miles

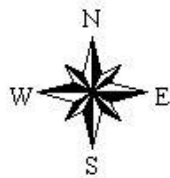
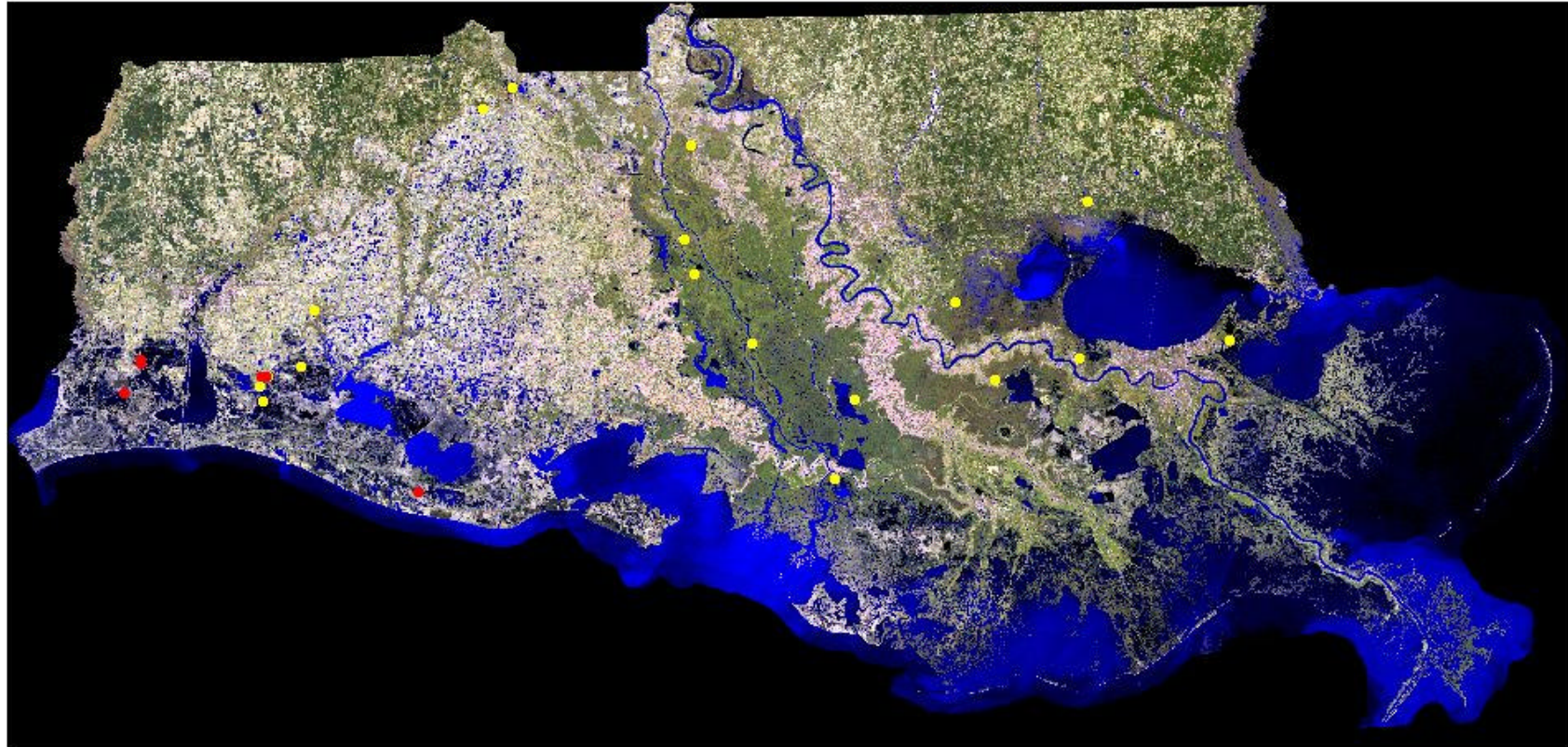


● Brown pelican locations

● Roseate spoonbill locations

Neotropic Cormorant and Anhinga Locations

E-3



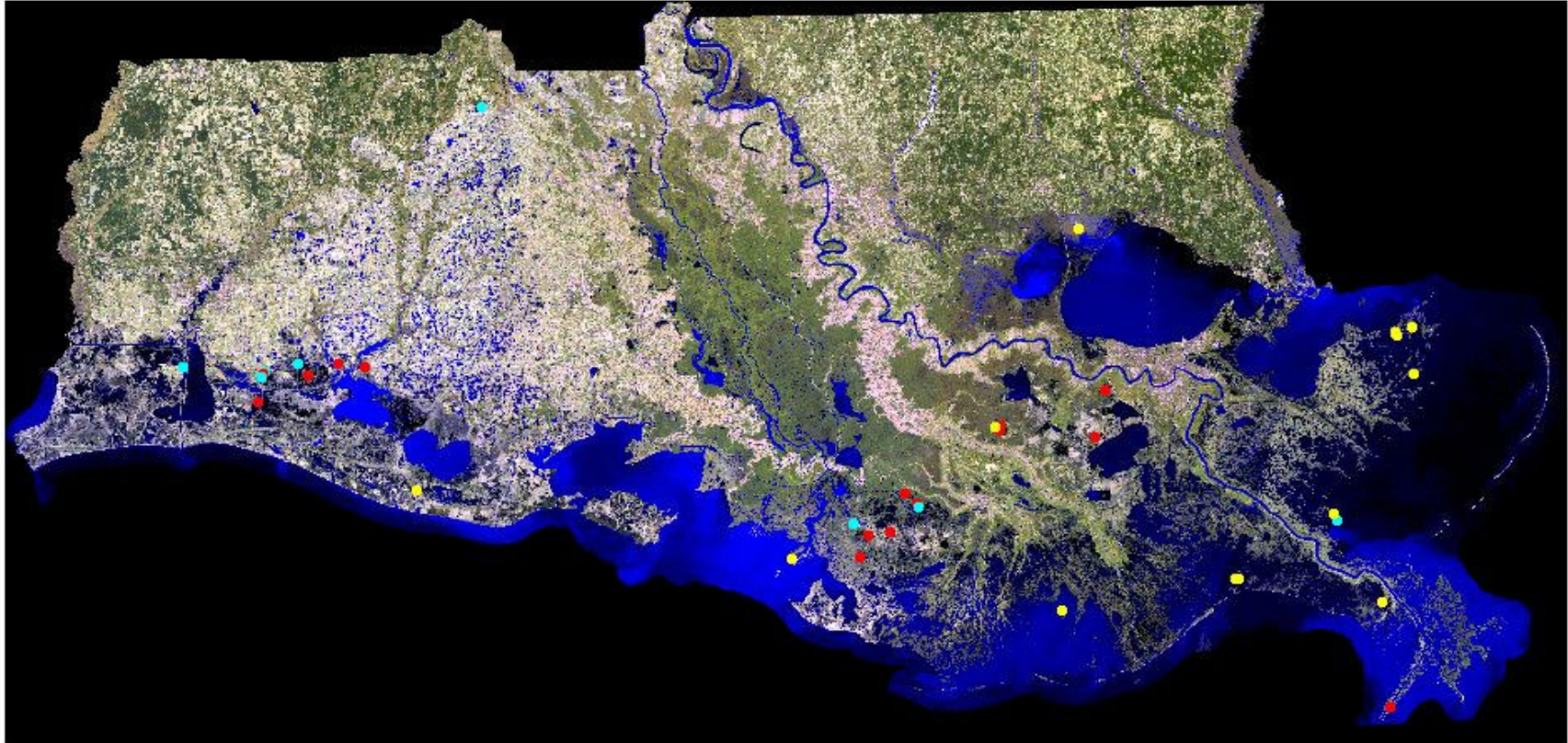
● Neotropic cormorant locations

● Anhinga locations



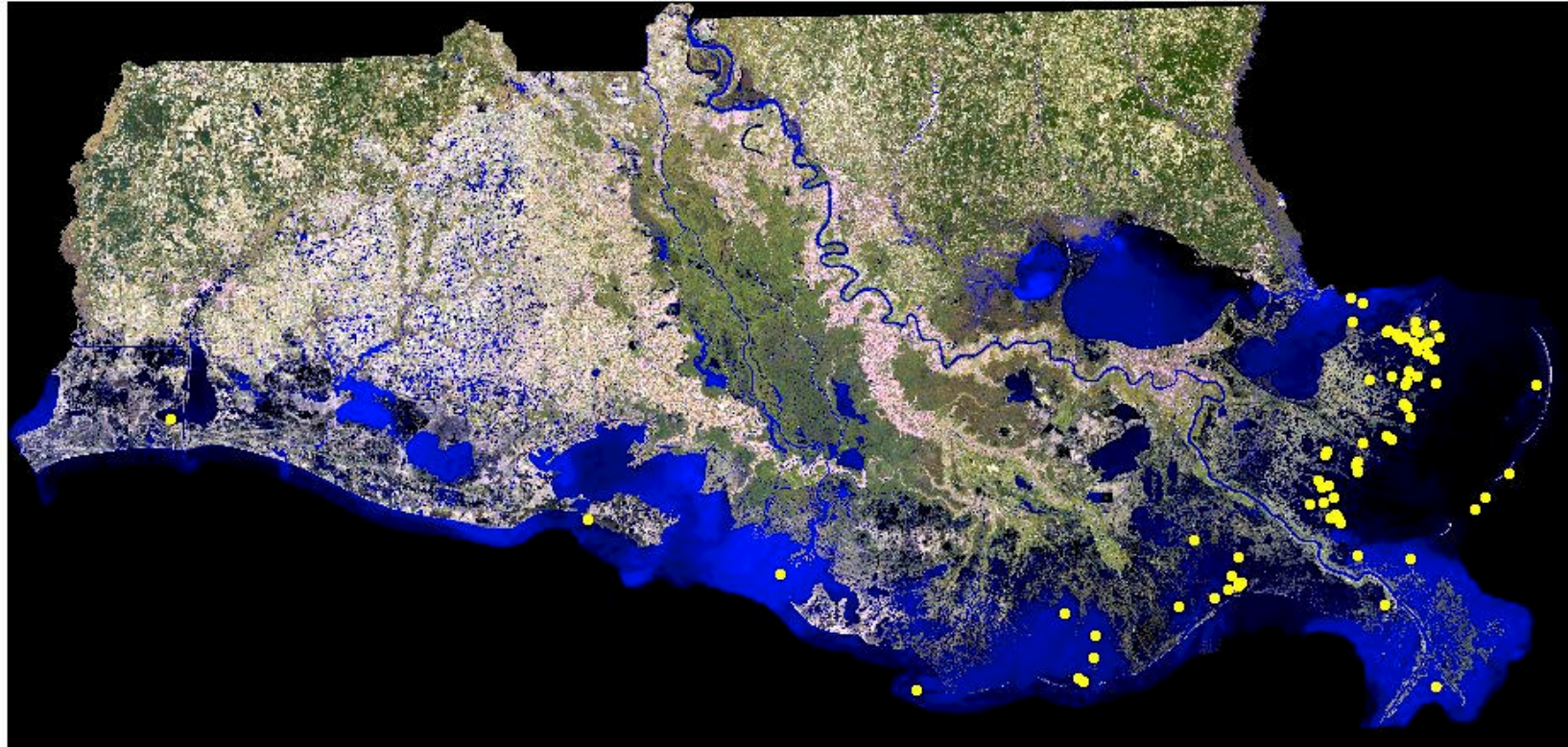
White Ibis and Dark Ibis Locations

E-4

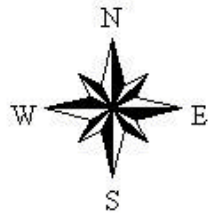


- White ibis locations
- Dark ibis locations
- Both ibis locations

Seabird Locations



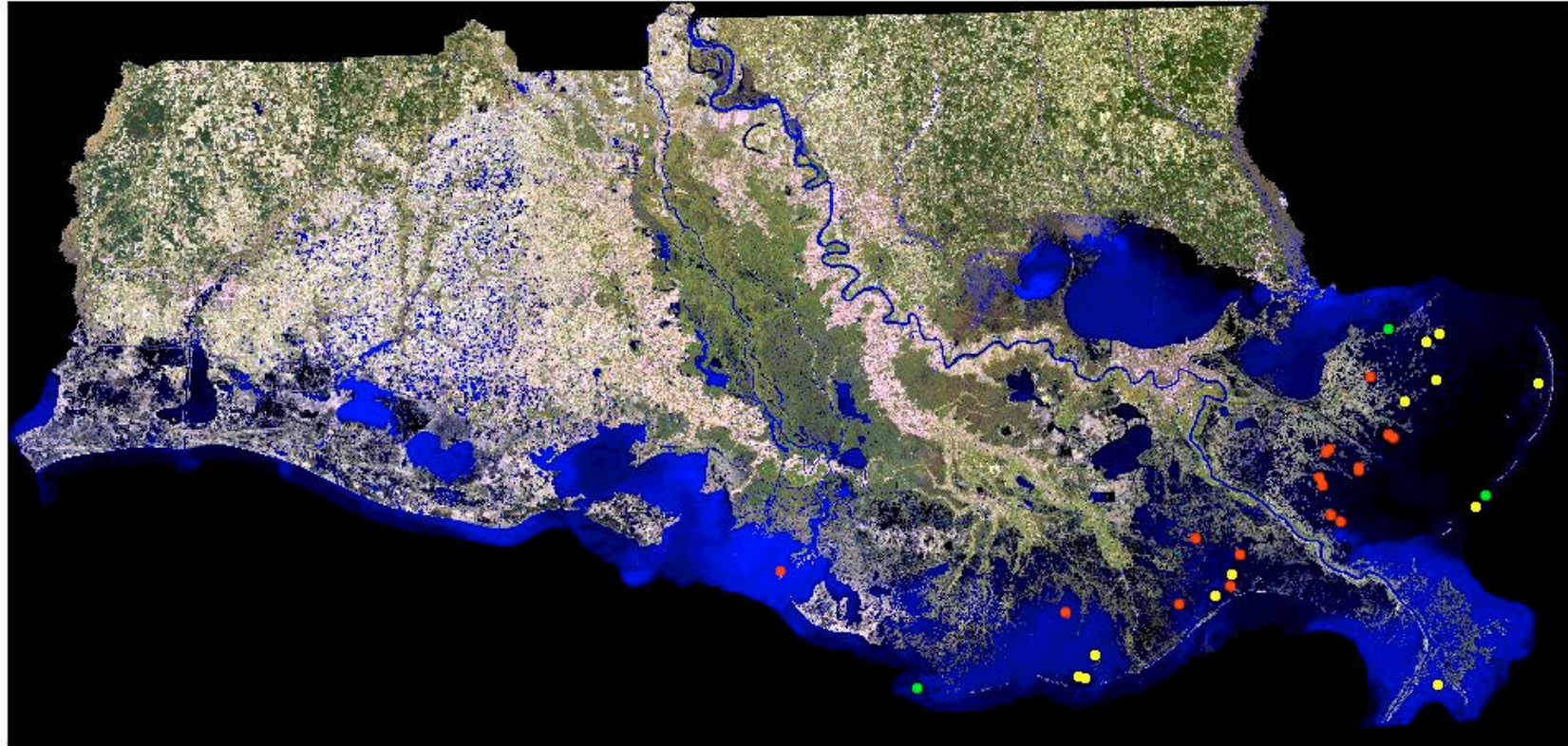
F-1



● Locations of colonies containing seabirds:
ROYT, FOTE, CATE, GBTE, LETE, SATE,
HERG, LAGU, BLSK
(see Appendix A for species abbreviations).



Royal Tern, Forsters Tern and Sandwich Tern Locations



F-2

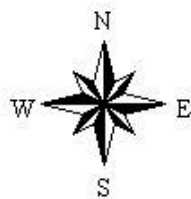
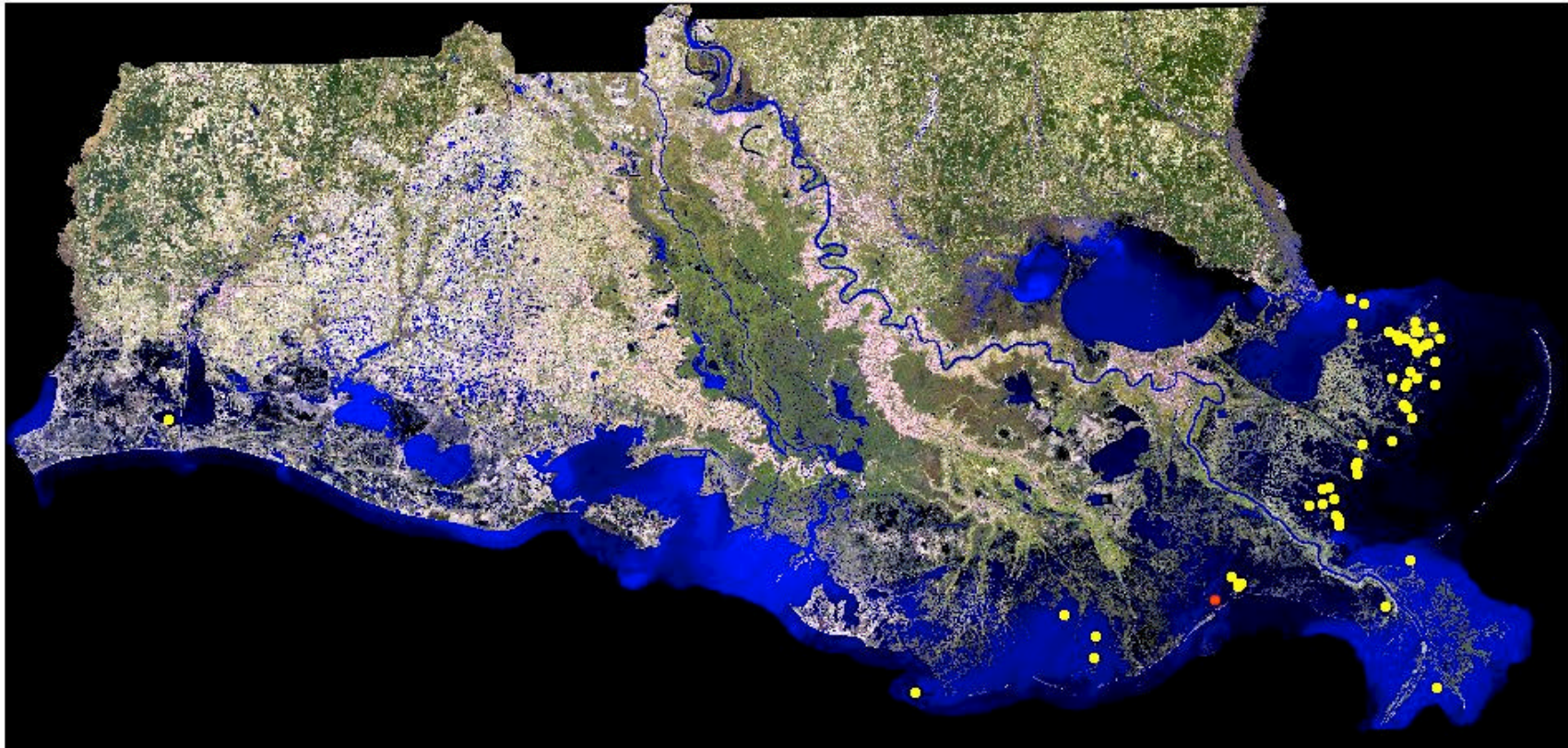


- Sandwich tern locations
- Royal tern locations
- Forsters tern locations



Laughing Gull and Herring Gull Locations

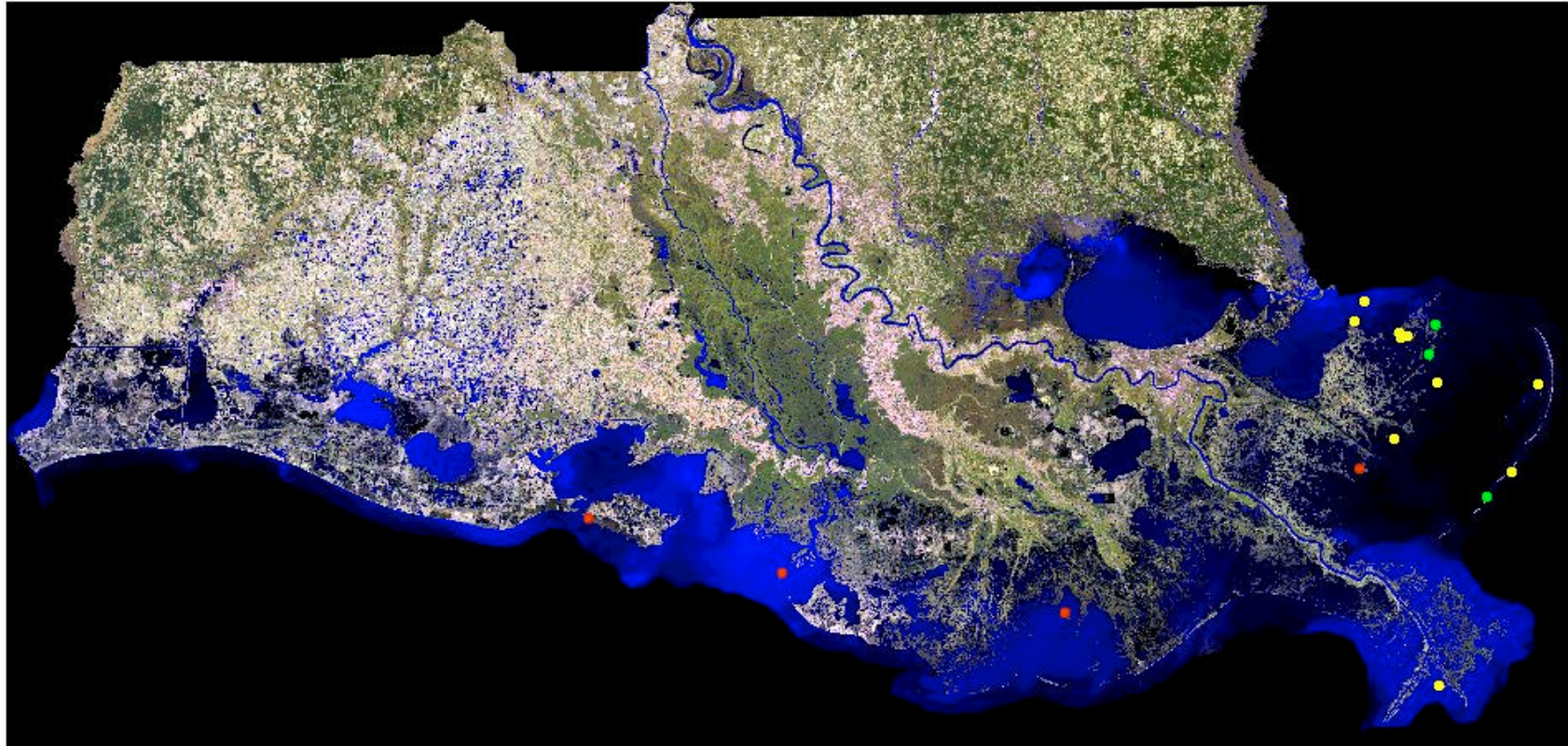
F-3



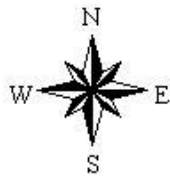
- Herring gull locations
- Laughing gull locations



Caspian Tern, Gull-Billed Tern, and Least Tern Locations



F-4



90

0

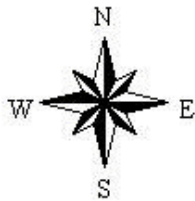
90

Miles

- Caspian tern locations
- Gull - billed tern locations
- Least tern locations

Black Skimmer Locations

F-S

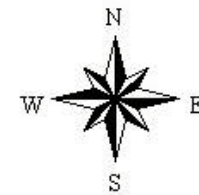
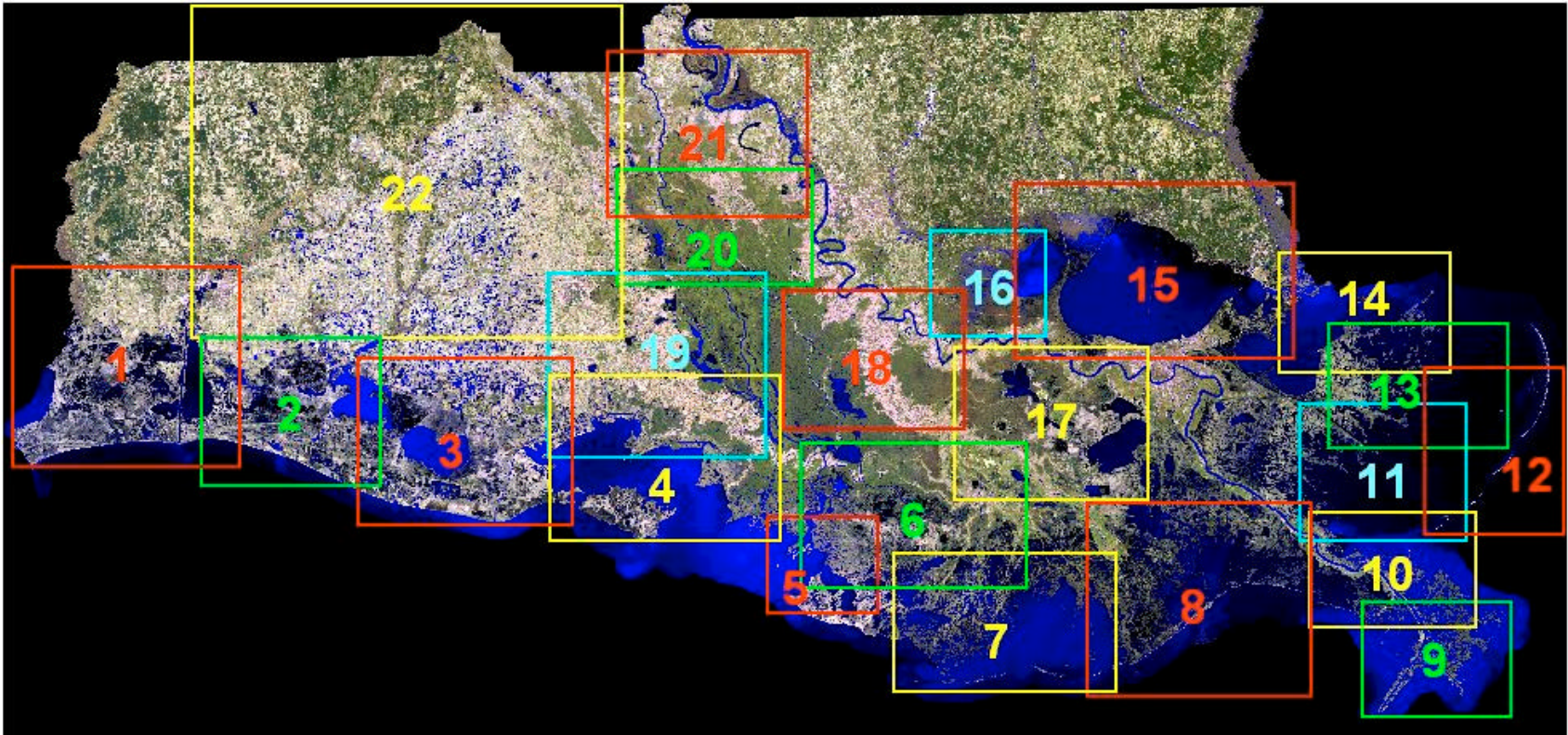


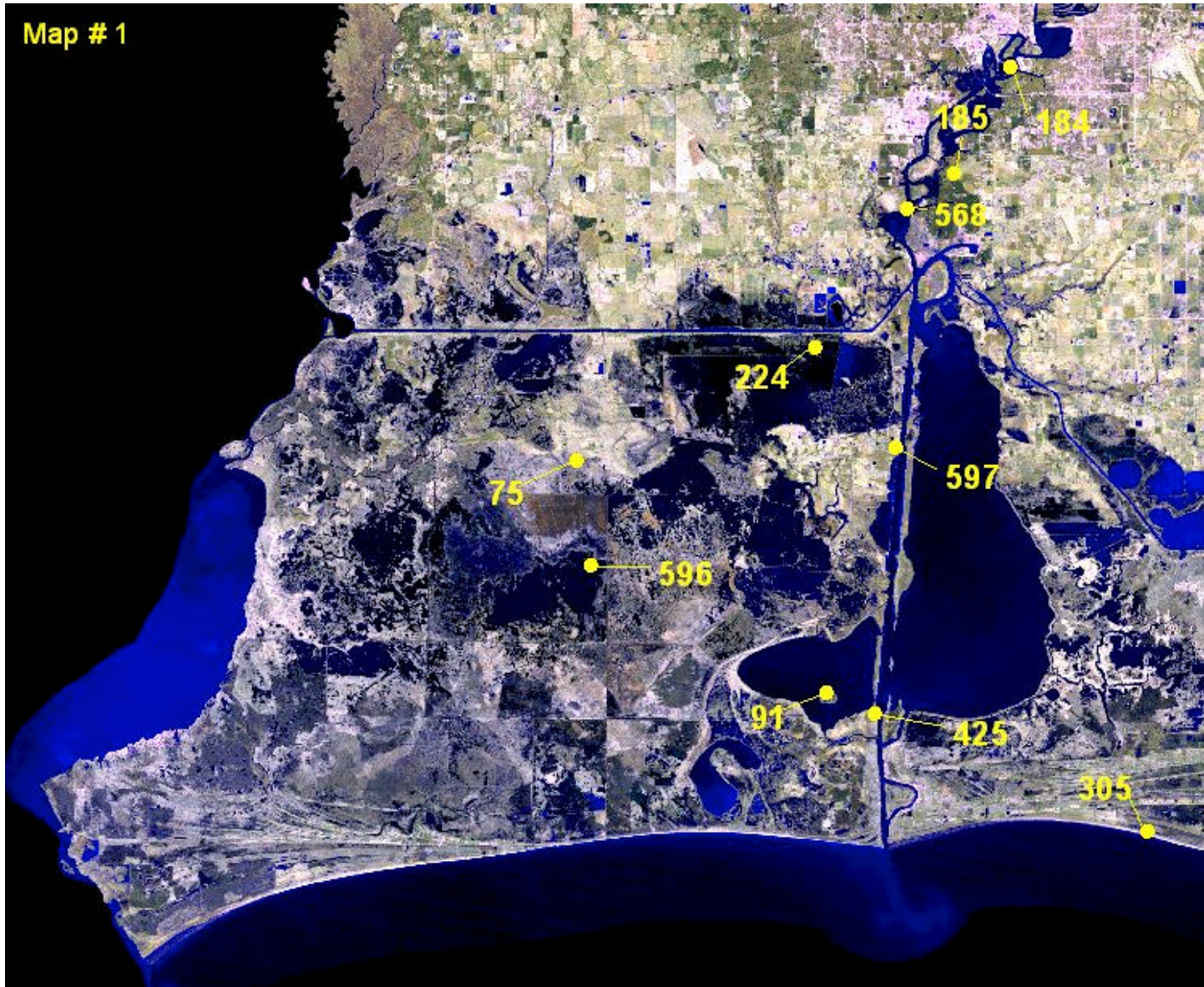
● Black skimmer locations

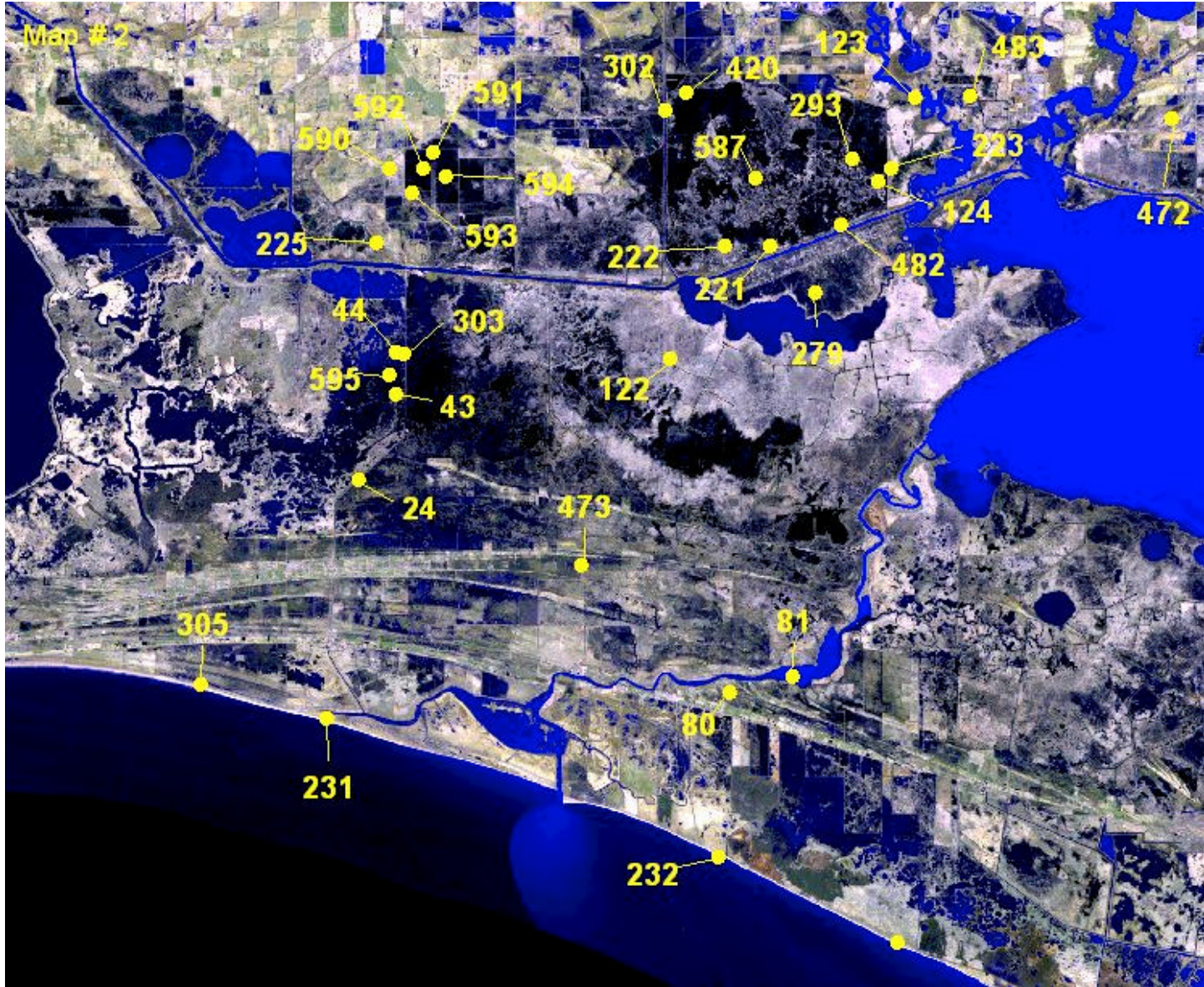


Index to Colony Number Location Maps

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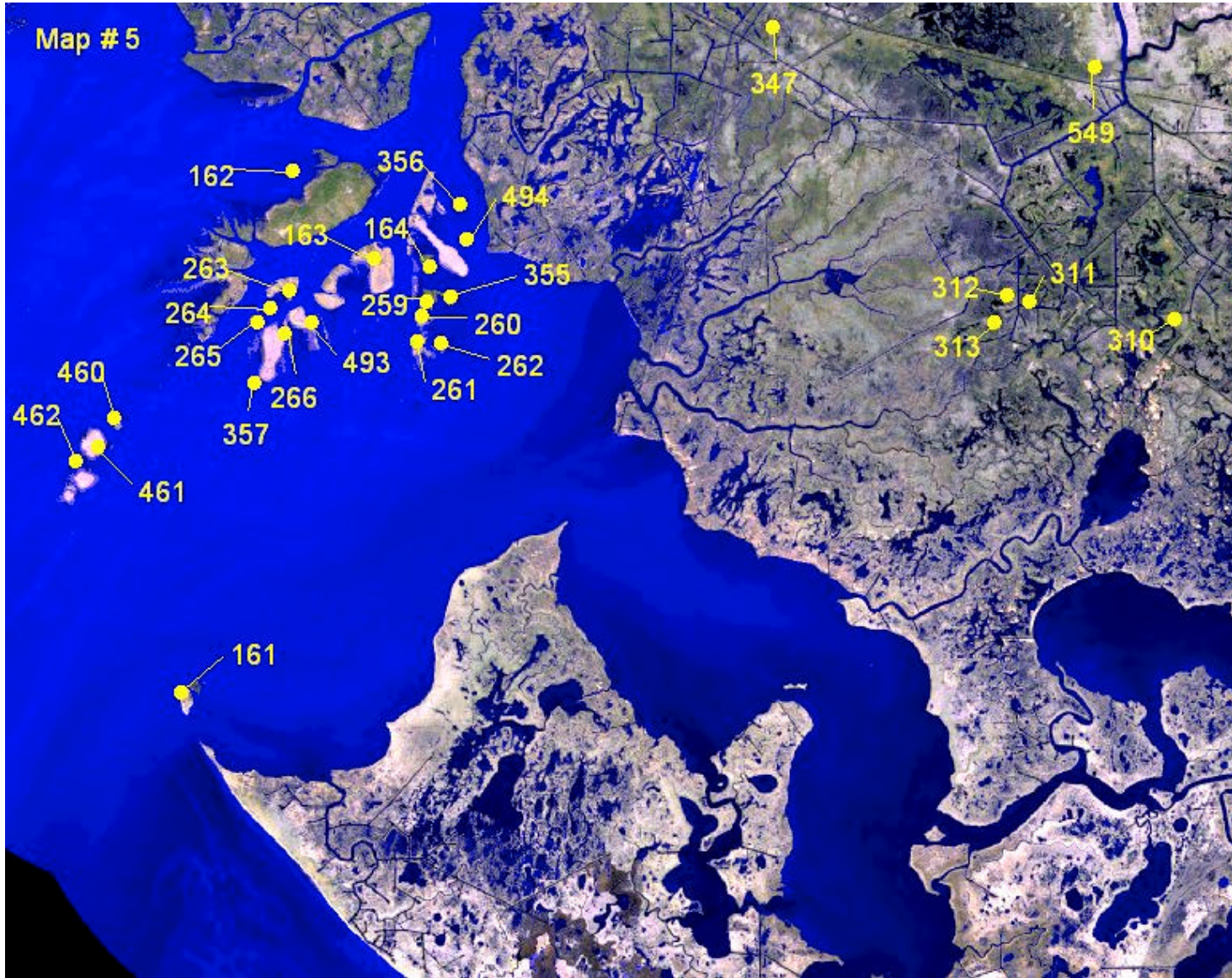


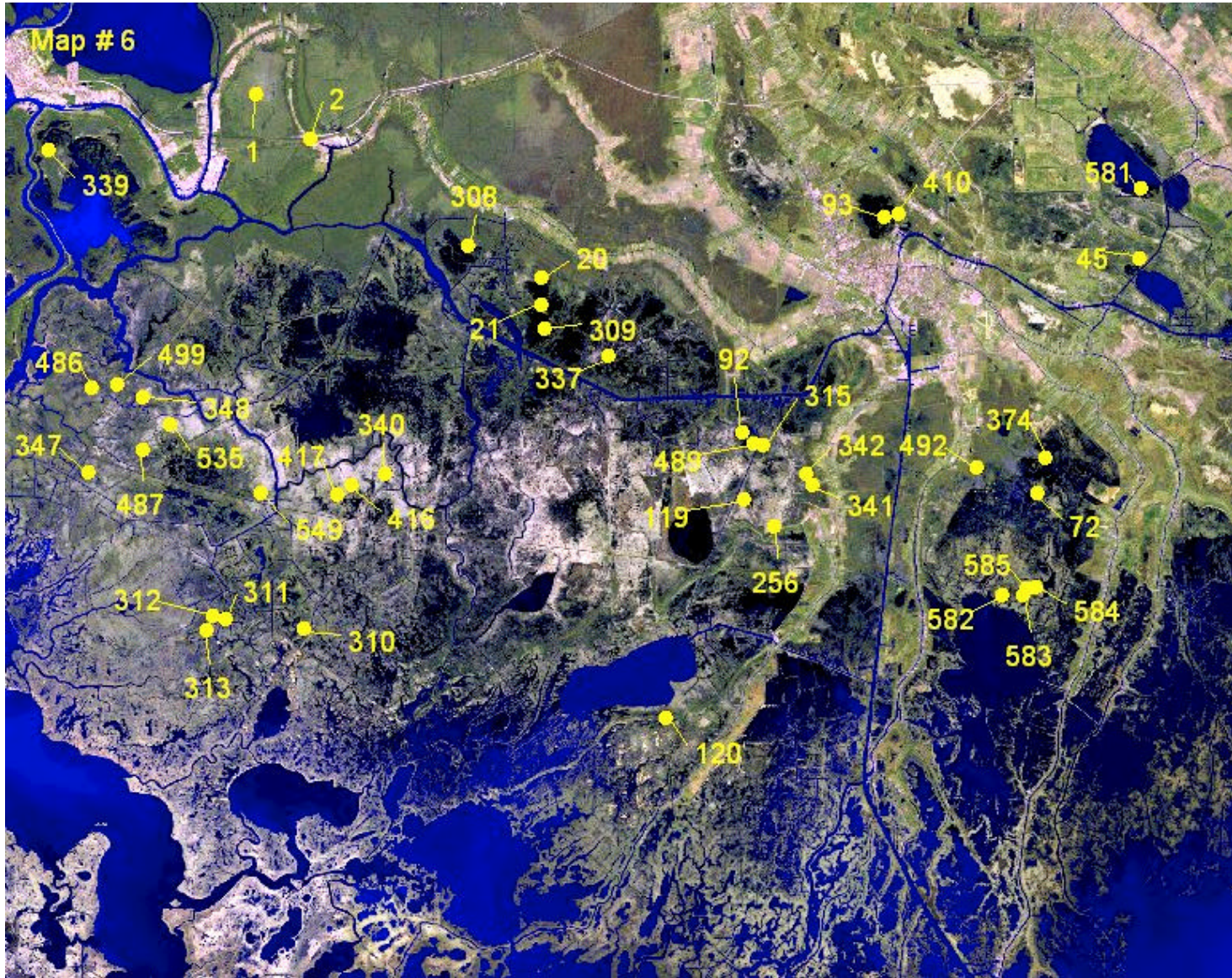


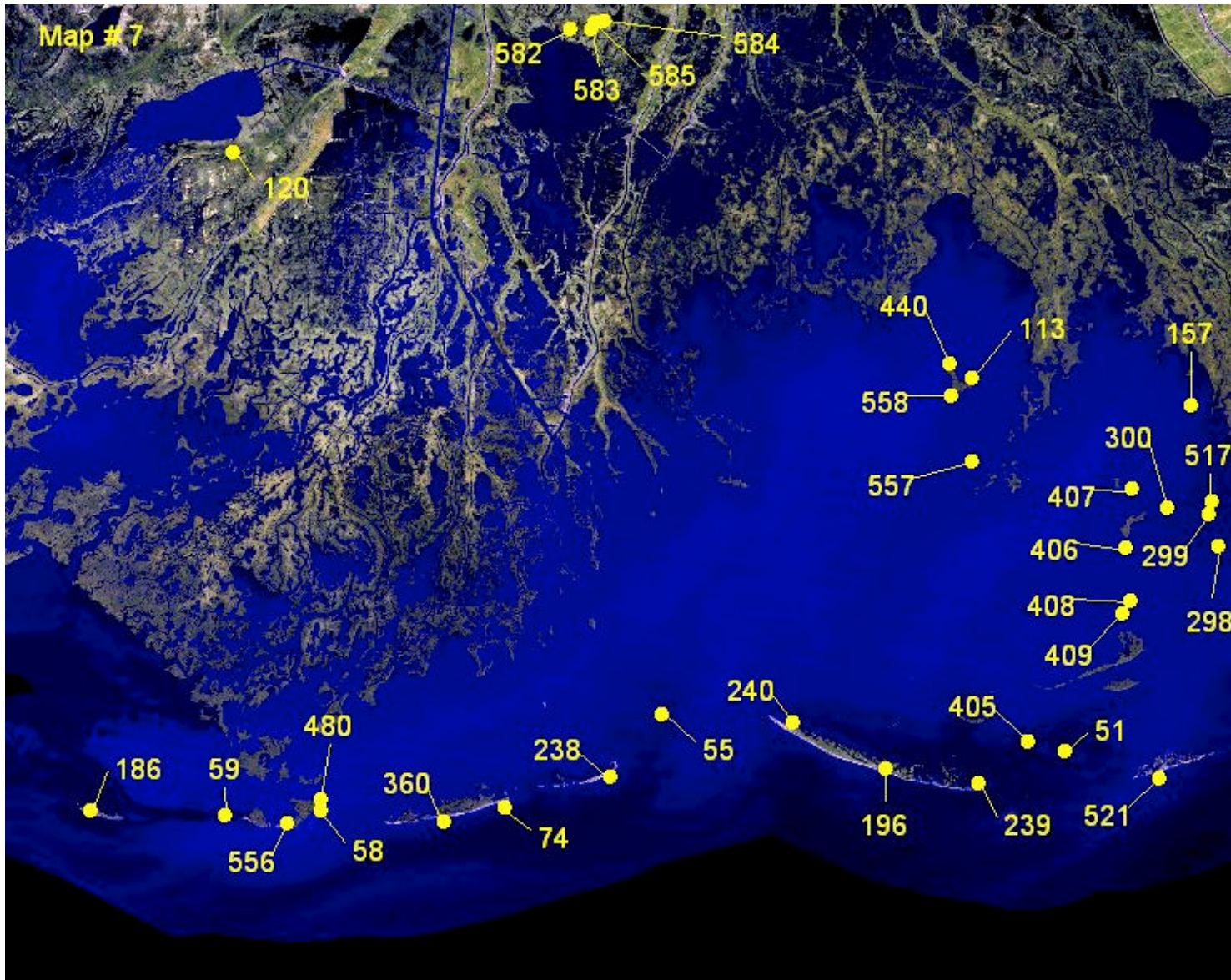


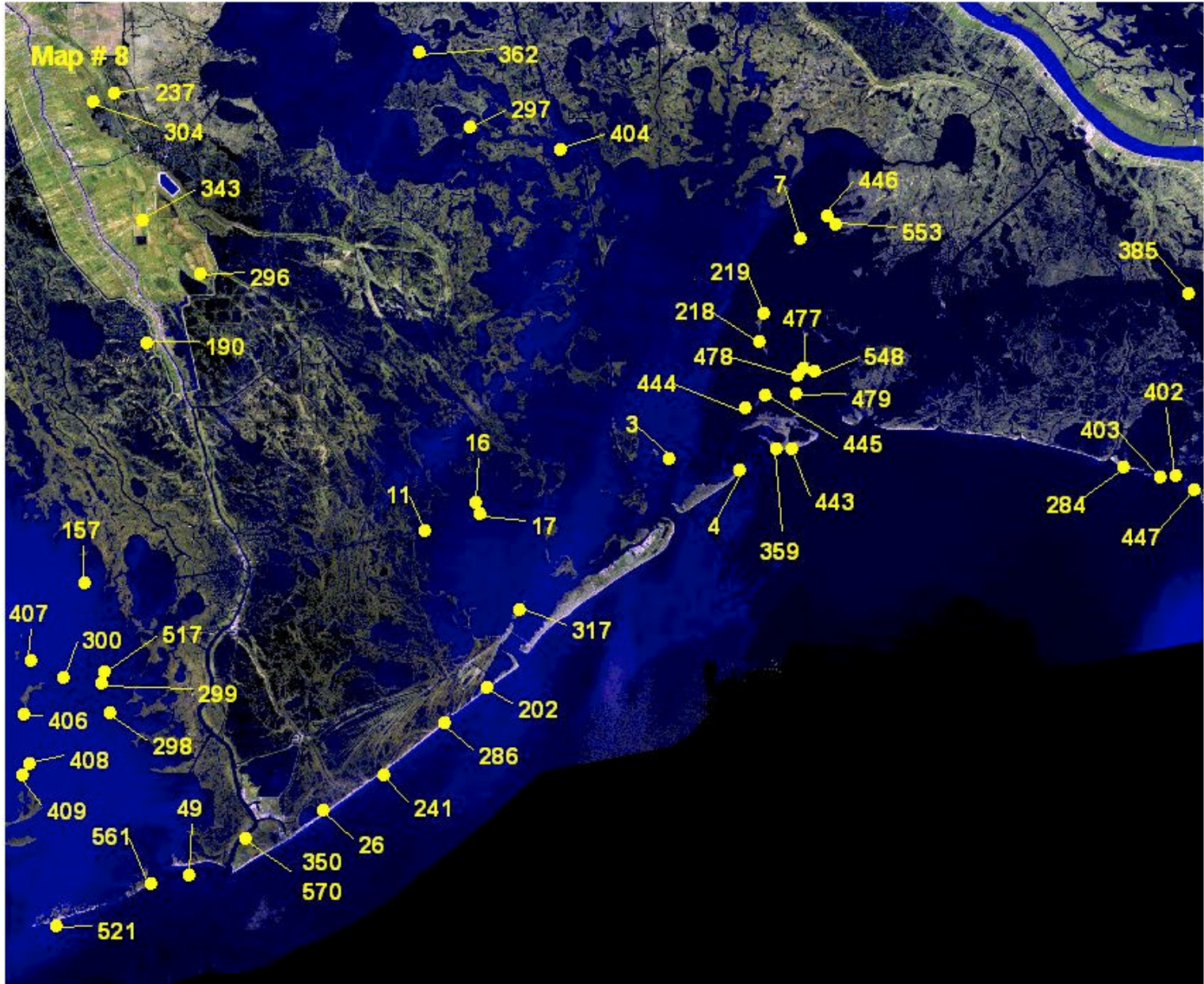


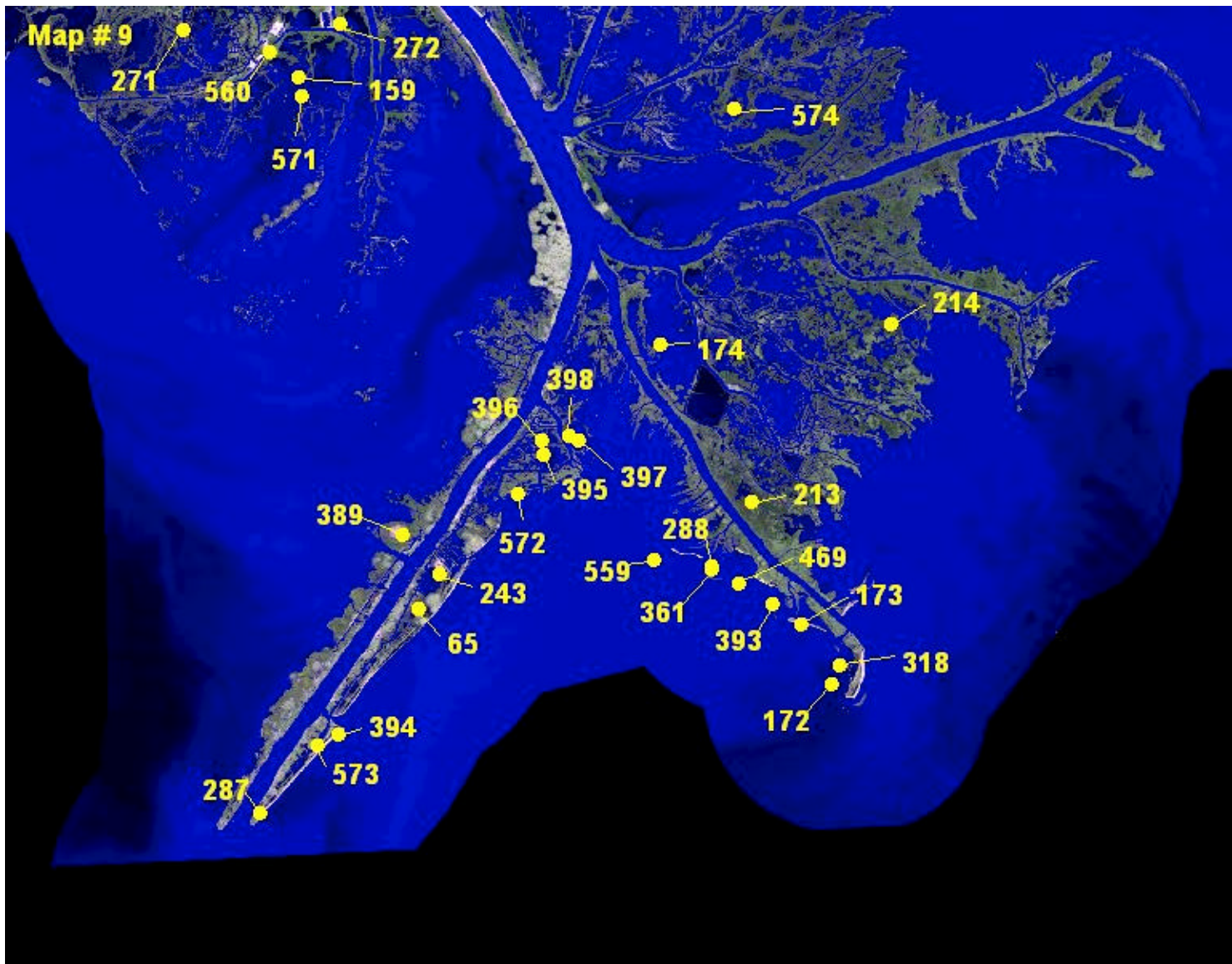


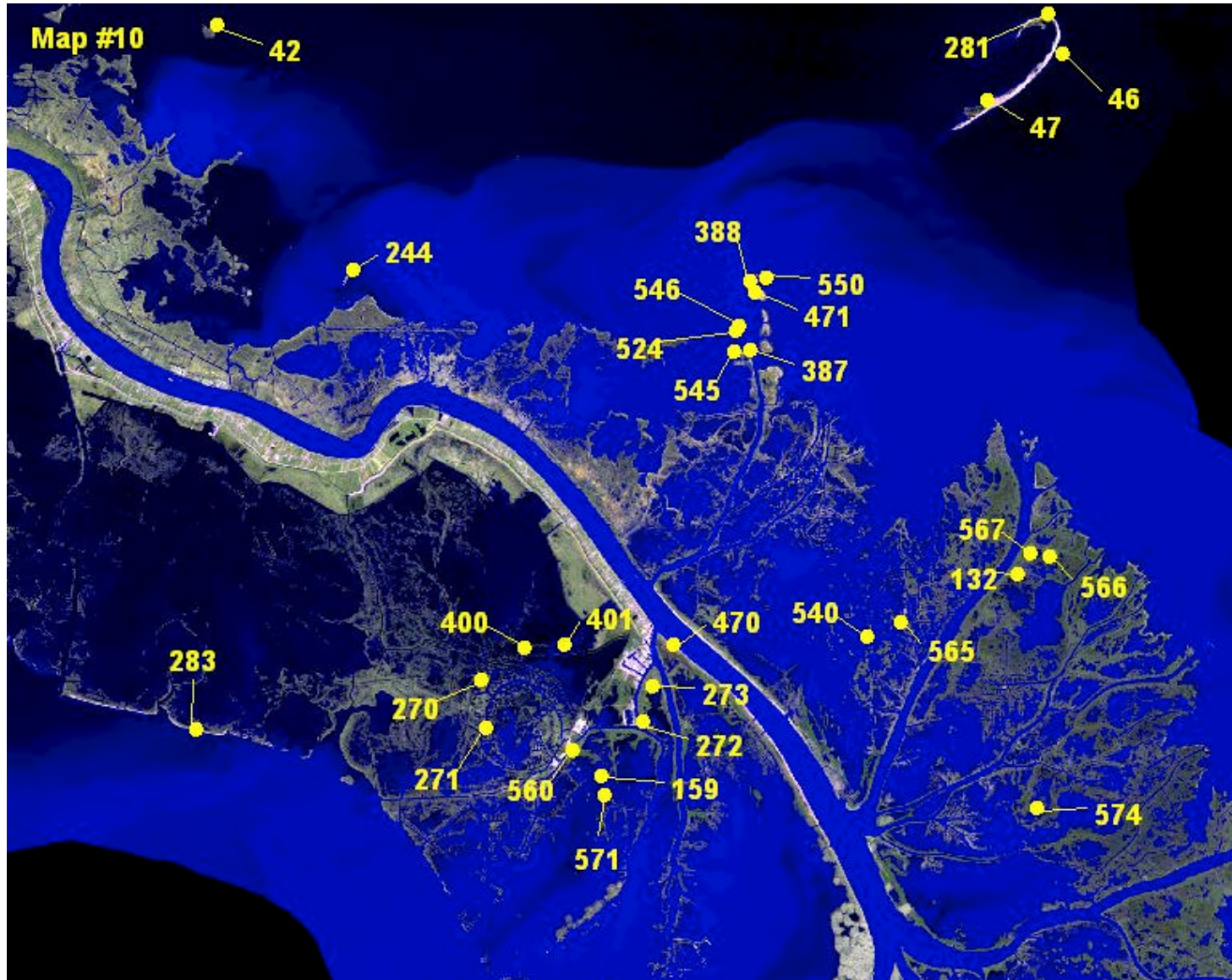


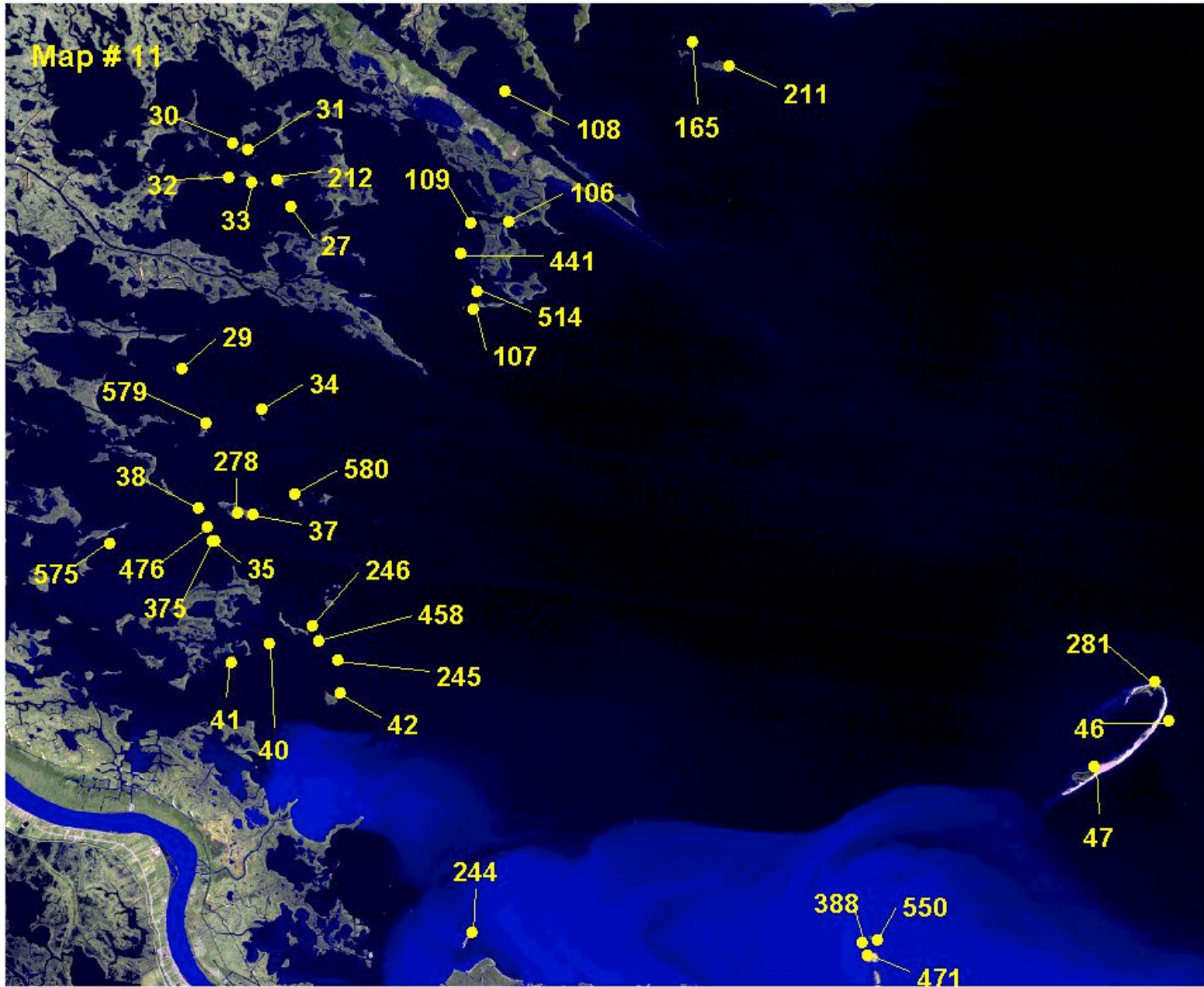


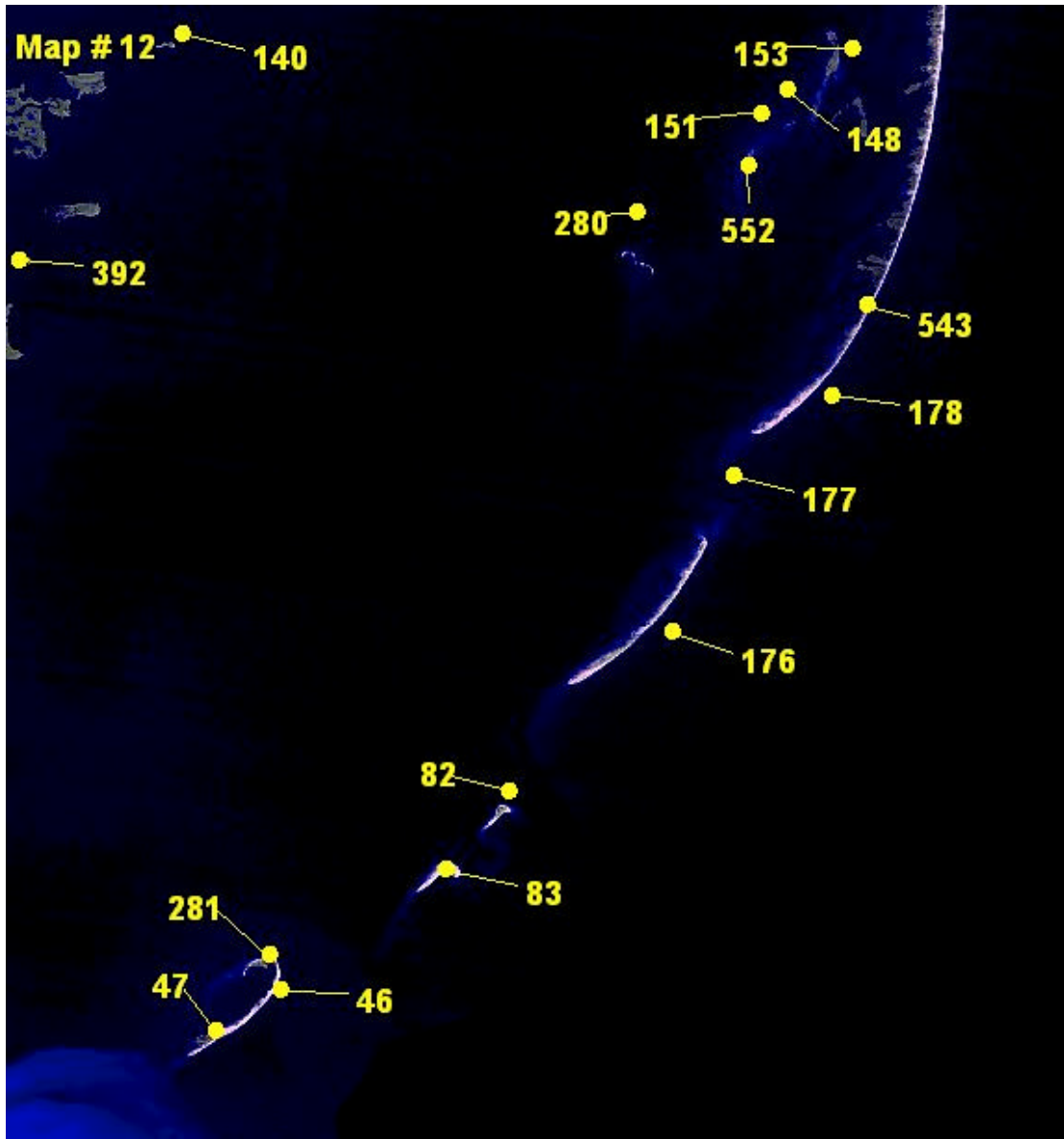


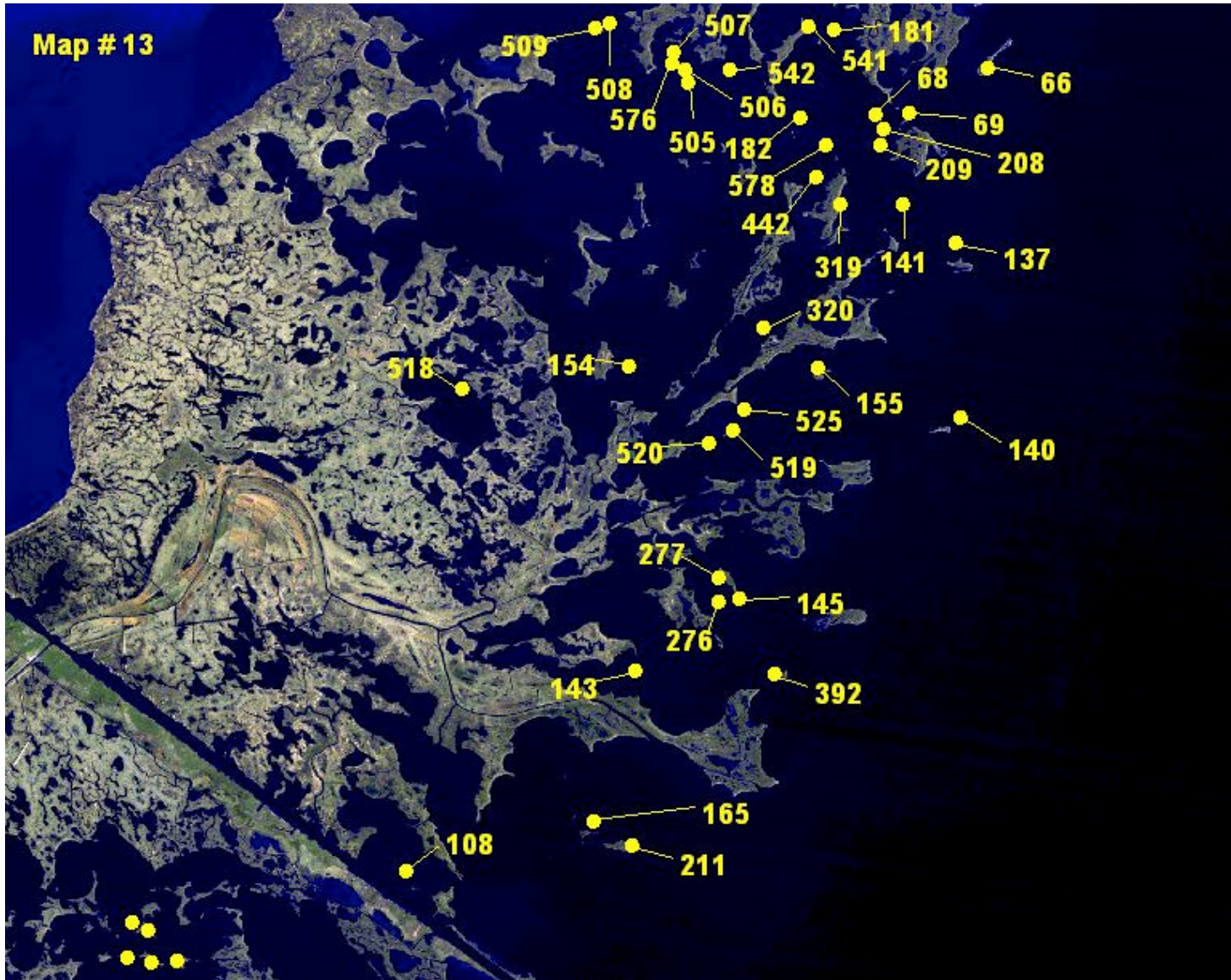


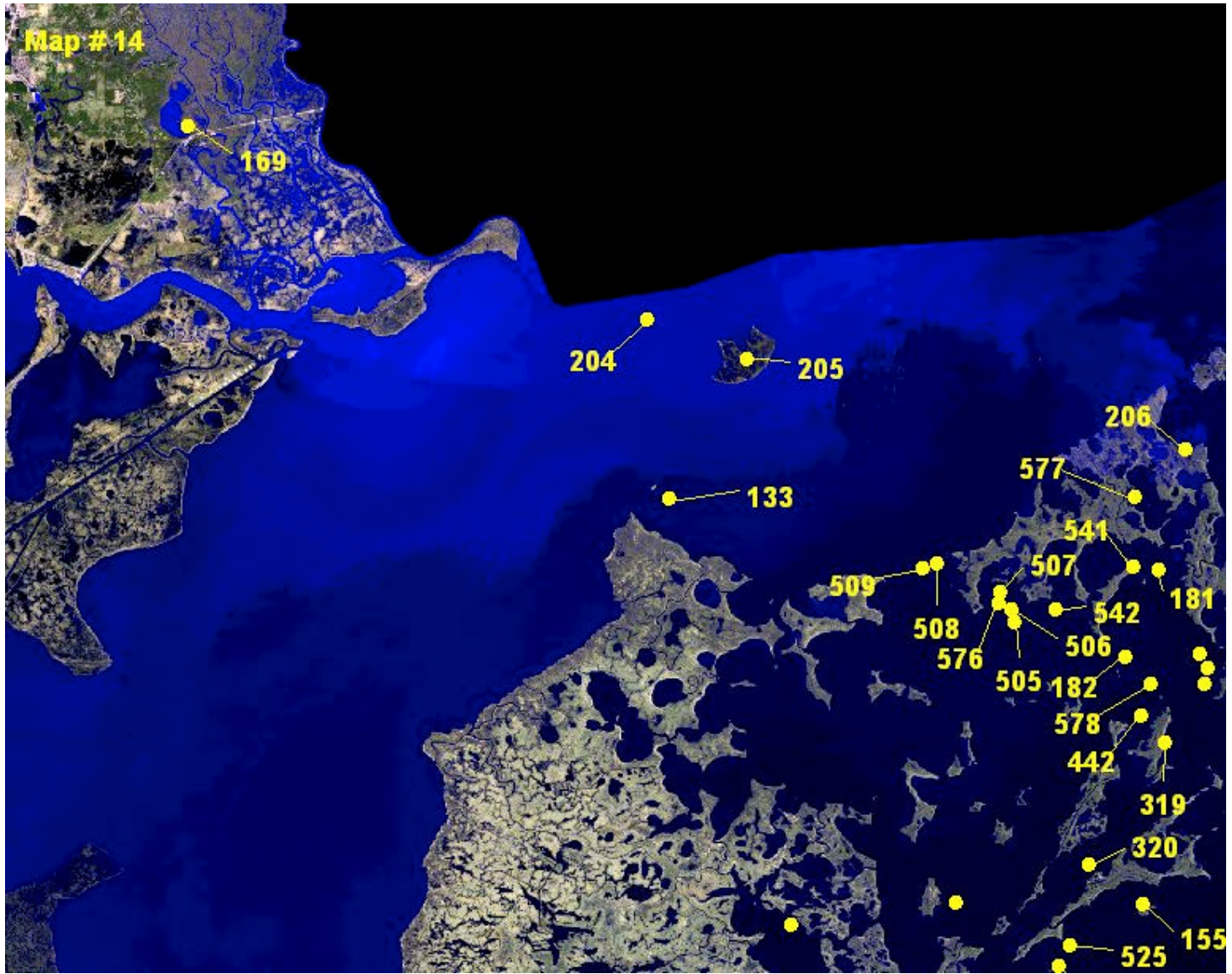


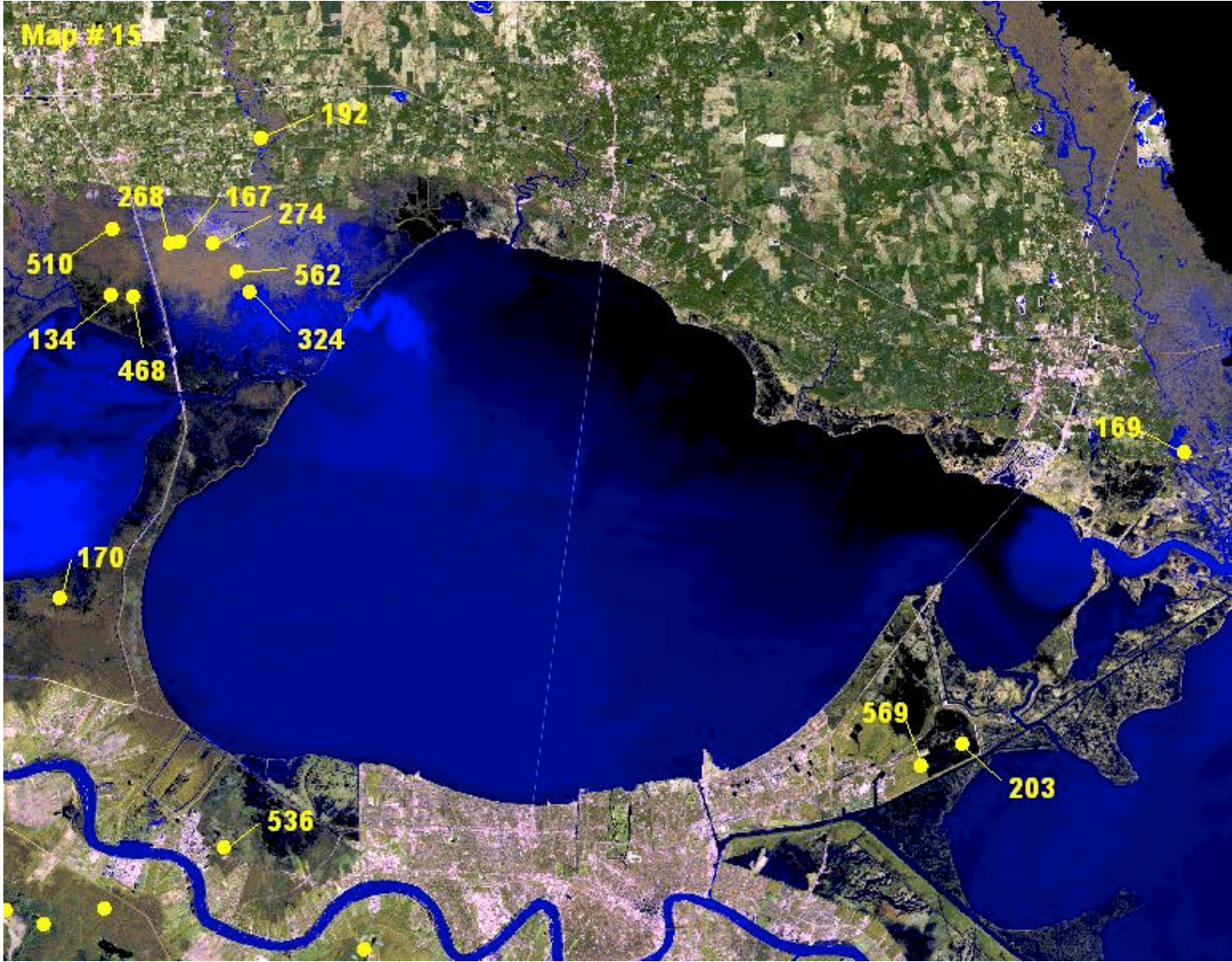


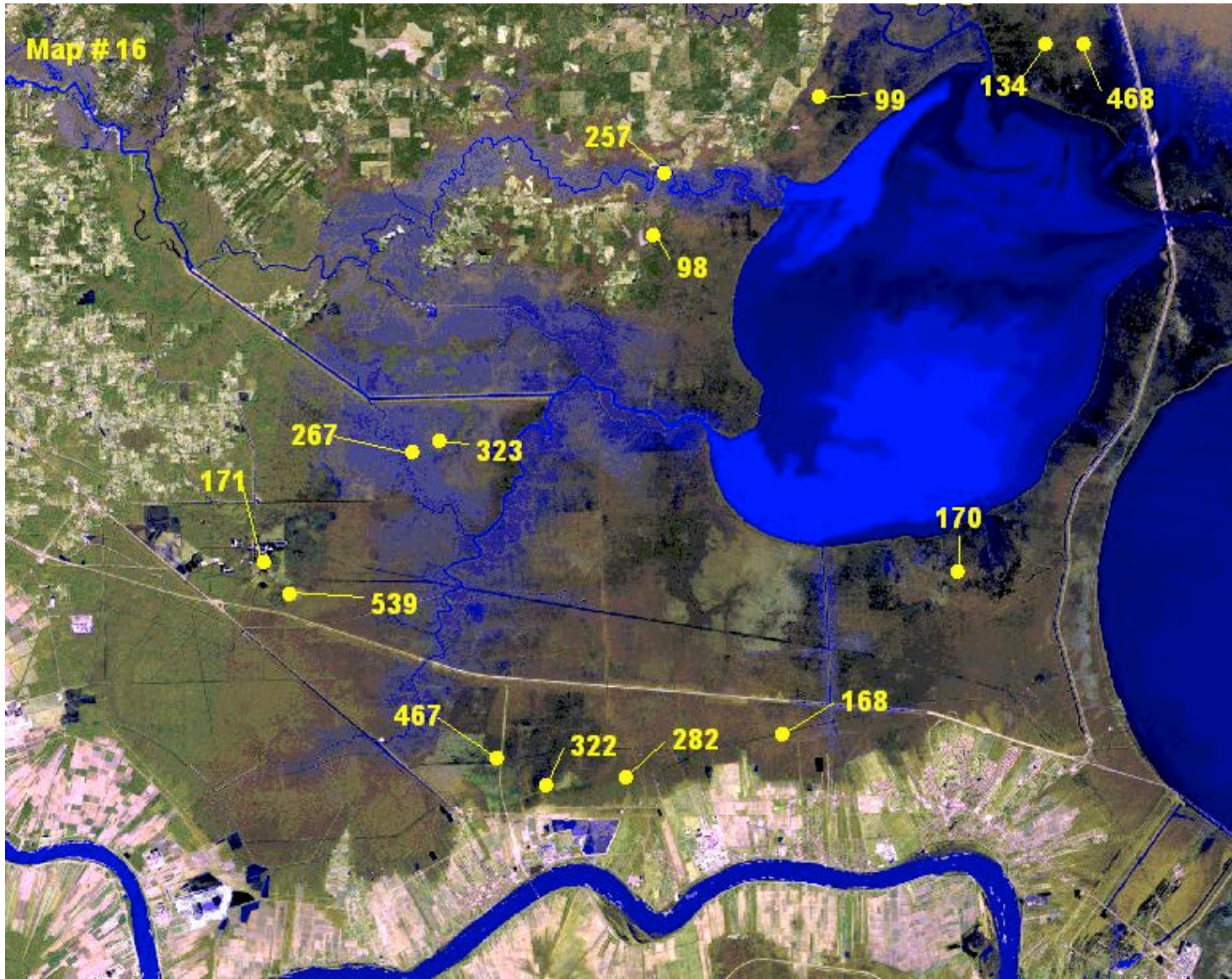




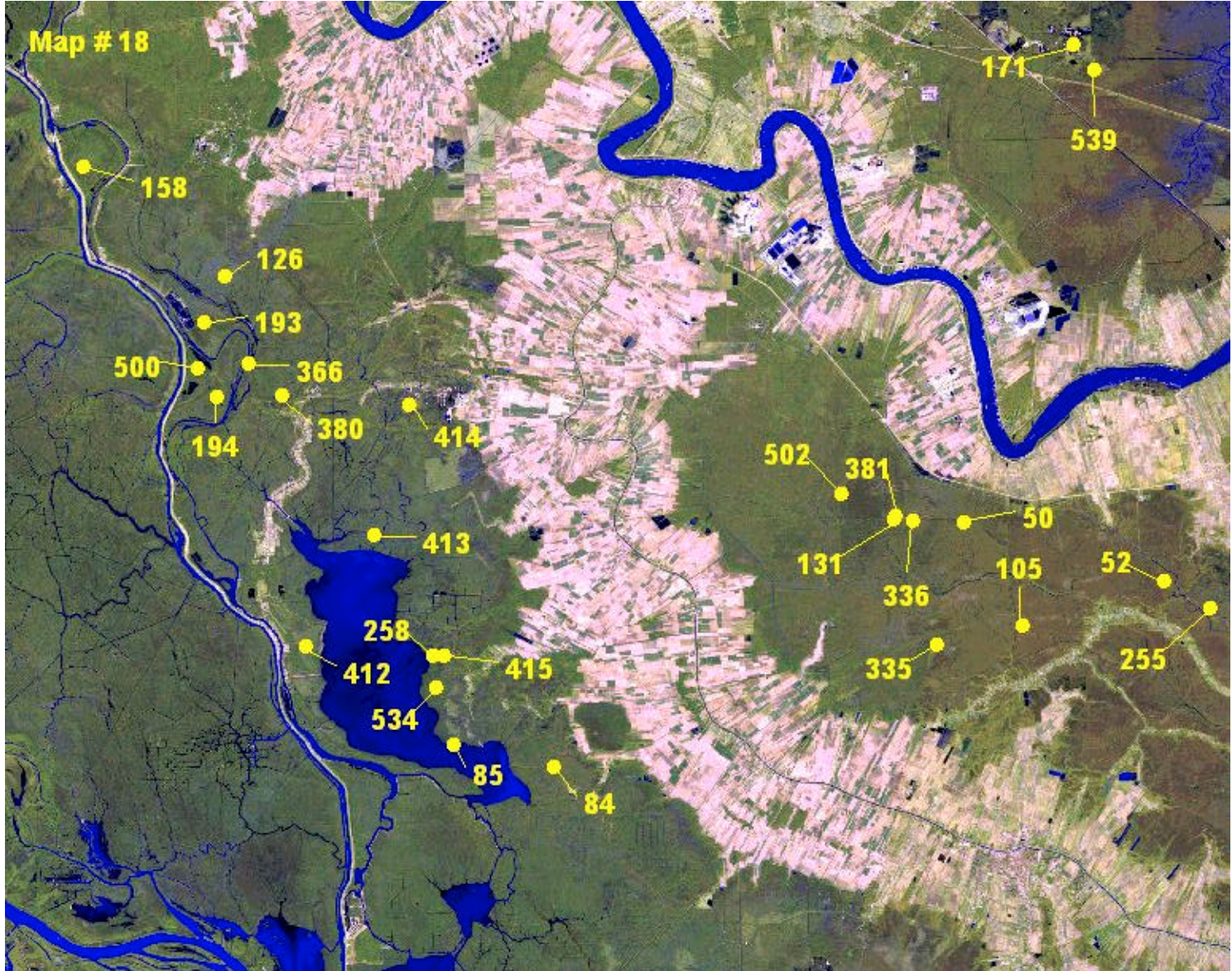




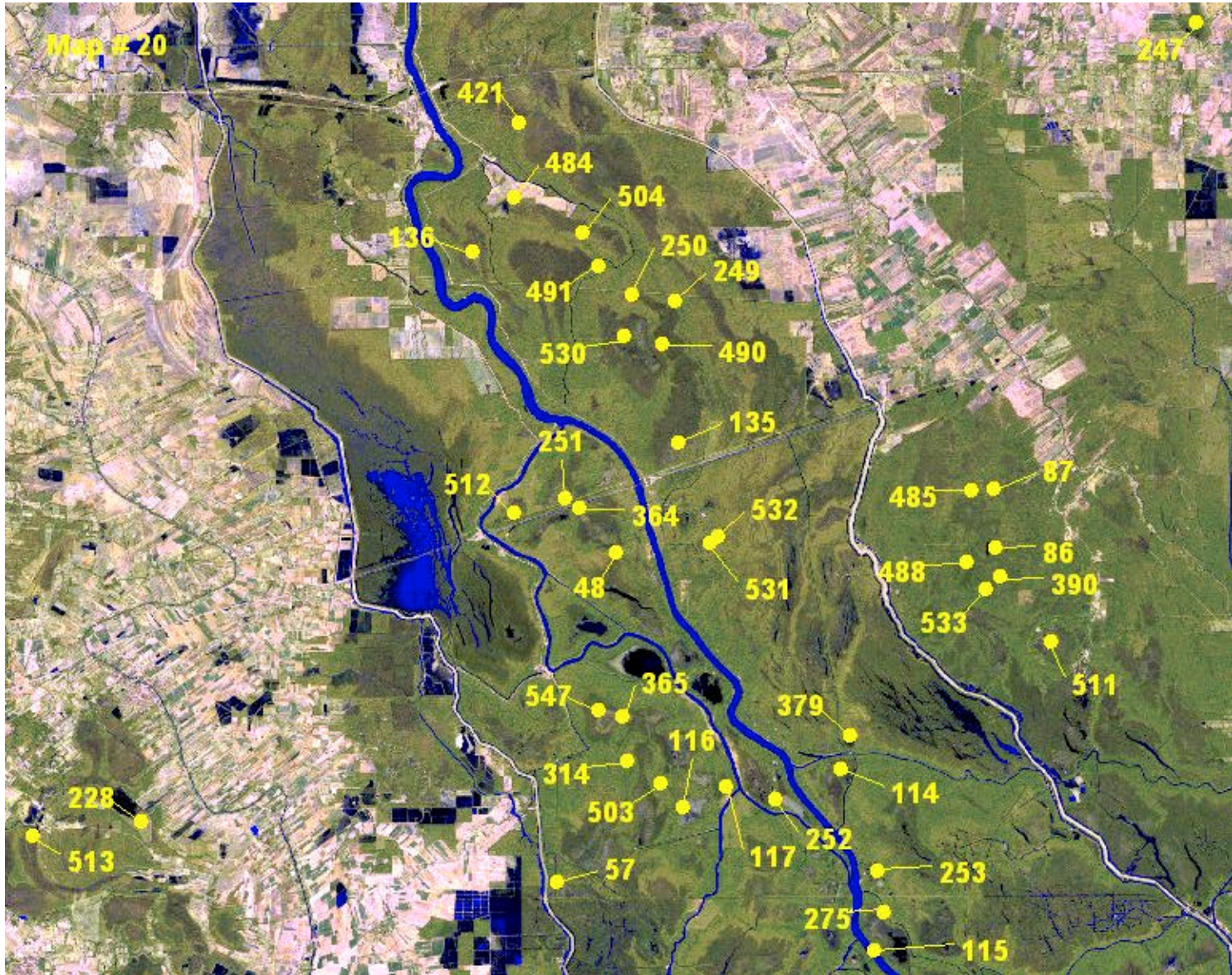


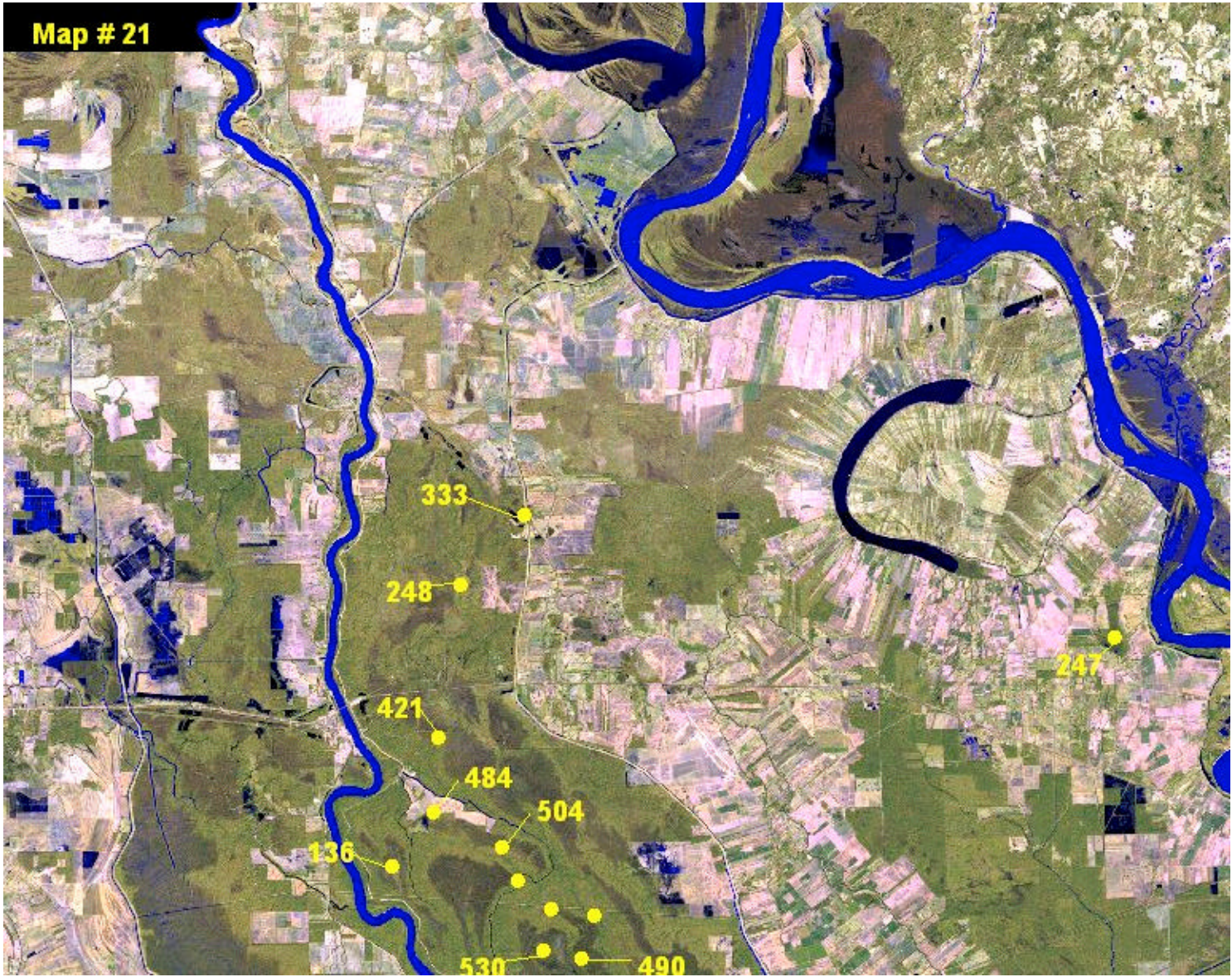




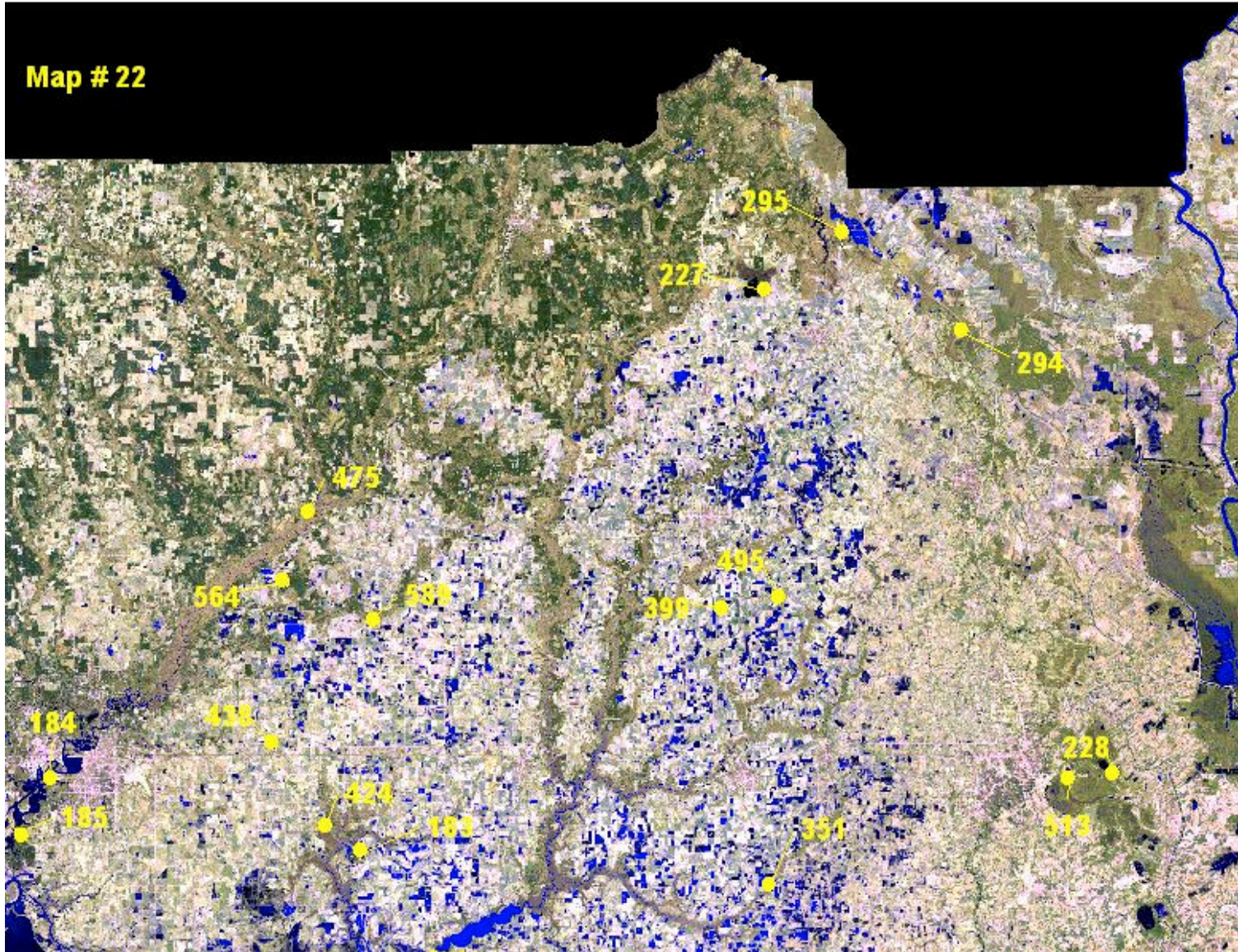








Map # 22





Atlas and Census of Wading Bird and Seabird Nesting Colonies in South Louisiana, 2001

Table 1. Habitats used by colonies during the 2001 survey

Habitat Type	Colony Code*				Total # of colonies surveyed for habitat	Total # of active colonies using habitat
	1	2	3	4		
Agriculture - Cropland - Grassland	7	0	0	0	7	0
Brackish	6	2	1	0	9	3
Fresh	75	25	9	14	123	48
Intermediate	24	3	0	6	33	9
Saline	85	57	14	7	163	78
Upland Barren	2	0	0	0	2	0
Upland Forest - Deciduous	0	0	0	1	1	1
Upland Forest - Evergreen	0	0	0	1	1	1
Upland Forest - Mixed	2	0	0	0	2	0
Upland Scrub/Shrub - Mixed	1	0	0	2	3	2
Vegetated Urban	3	0	0	0	3	0

Wetland Barren	4	0	0	0	4	0
Wetland Forest - Deciduous	73	29	12	3	117	44
Wetland Forest - Mixed	2	0	0	0	2	0
Wetland Scrub/Shrub - Evergreen	3	0	1	1	5	2
Wetland Scrub/Shrub - Deciduous	11	7	1	0	19	8
Wetland Scrub/Shrub - Mixed	0	0	1	1	2	2
Total	298	123	39	36	496	198

* Colony Codes

1 = Inactive colony, old location

2 = Active colony, old location

3 = Active colony, new location

4 = New colony, new location

Table 2

Table 2. Abundance of colonial-nesting waterbirds in active colonies of south Louisiana, 2001.

Species	Number of colonies	Number of pairs	Mean # pairs / colony
Brown Pelican	14	8,477	606
Cormorant ¹	8	522	65
Anhinga	19	830	44
Great Blue Heron	35	2,019	58
Great Egret	86	13,928	162
Snowy Egret	72	19,674	273
Little Blue Heron	43	7,804	181
Tricolored Heron	21	410	20
Cattle Egret	26	26,037	1001
Green Heron	4	85	21
Black-crowned Night-Heron	15	329	22
Yellow-crowned Night-Heron	2	21	11
White Ibis	21	24,036	1145
Dark Ibis ²	22	18,473	840
Roseate Spoonbill	21	1,168	56
Laughing Gull	59	35,532	602
Herring Gull	1	1	1
Gull-billed Tern	4	440	110
Caspian Tern	11	682	62
Royal Tern	14	12,422	887
Sandwich Tern	6	38,258	6376
Forster's Tern	19	2,690	142
Least Tern	2	80	40
Black Skimmer	20	2,905	145
All species	198	216,823	1095

¹ Includes Neotropic Cormorant and Double-crested Cormorant.

² Includes Glossy Ibis and White-faced Ibis.



Atlas and Census of Wading Bird and Seabird Nesting Colonies in South Louisiana, 2001

Table 3. Five largest colonies observed during the 2001 colony survey.

Colony number	Colony Coordinates		Parish	Location	Habitat type	Species present	Number of nesting adult pairs ¹	1990 top five colonies ²
	Latitude	Longitude						
83	29.5333	-89.0833	Plaquemines	South Gosier Island	Saline marsh	BRPE, BLSK, SATE, ROTE	38,655	Y
227	30.7400	-92.3453	Evangeline	Miller's Lake	Wetland forest - deciduous	CAEG, DAIB, LBHE, SNEG, ANHI, WHIB	37,520	Y
562	30.3631	-90.3584	Tangipahoa	Joyce Wildlife Management Area	Wetland forest - deciduous	WHIB	9,500	N*
186	29.0525	-90.9338	Terrebonne	Raccoon Island	Saline marsh	GREG, BRPE, LAGU, SATE	9,005	Y
228	30.2128	-91.9019	St. Martin	Lake Martin	Wetland forest - deciduous	ROSP, CAEG, GREG, LBHE, SNEG	8,020	Y

¹ See appendix A for species abbreviation codes.								
² All species combined.								
³ Y= colonies were listed in top five by Martin and Lester (1990).								
* believed to be equivalent to colony number 268 (1990) and 167(1983, 1976) but location of new colony >1km from previous locations, so new colony number and location assigned.								



Atlas and Census of Wading Bird and Seabird Nesting Colonies in South Louisiana, 2001

Table 4. Total distance and habitat surveyed during 2001 colony survey in south Louisiana.

Habitat Land Cover	# of points	% of total points	Habitat covered (nautical miles)	Total habitat surveyed (square nautical miles)	Total Habitat Area (sq. statute. mi.)	Total habitat in study area (sq. n. mi.)	% coverage per habitat	# active colonies per habitat	# active colonies per sq. n. mi of surveyed area
Agriculture - Cropland - Grassland	2175	15.50%	500.88	125.22	5205.24	4035.07	3.10%	0	0.00
Brackish Marsh	744	5.30%	171.33	42.83	1079.54	836.85	5.12%	3	0.07
Dense Pine Thicket	2	0.01%	0.46	0.12	31.18	24.17	.476%	0	0.00
Fresh Marsh	2503	17.84%	576.41	144.10	1435.91	1113.11	12.94%	48	0.33
Intermediate Marsh	1461	10.41%	336.45	84.11	539.37	418.12	21.12%	9	0.11
Nonvegetated Urban	238	1.70%	54.81	13.70	131.07	101.61	13.49%	0	0.00
Saline Marsh	1255	8.95%	289.01	72.25	584.70	453.25	15.94%	78	1.07
Upland Barren	71	0.51%	16.35	4.09	17.13	13.28	30.78%	0	0.00
Upland Forest - Deciduous	55	0.39%	12.67	3.17	130.84	101.42	3.12%	1	0.32
Upland Forest - Evergreen	87	0.62%	20.04	5.01	453.67	351.68	1.42%	1	0.20
Upland Forest - Mixed	133	0.95%	30.63	7.66	386.74	299.80	2.55%	0	0.00
Upland Scrub/Shrub - Deciduous	4	0.03%	0.92	0.23	17.33	13.44	1.73%	0	0.00
Upland Scrub/Shrub - Evergreen	6	0.04%	1.38	0.35	20.26	15.71	2.2%	0	0.00
Upland Scrub/Shrub - Mixed	136	0.97%	31.32	7.83	345.42	267.77	2.92%	2	0.26
Vegetated Urban	1024	7.30%	235.82	58.95	835.23	647.46	9.11%	1	0.02
Wetland Barren	39	0.28%	8.98	2.25	22.43	17.39	12.91%	0	0.00
Wetland Forest - Deciduous	3693	26.33%	850.46	212.61	3602.31	2792.49	7.61%	43	0.20
Wetland Forest - Evergreen	7	0.05%	1.61	0.40	10.24	7.94	5.08%	0	0.00
Wetland Forest - Mixed	26	0.19%	5.99	1.50	106.88	82.85	1.81%	0	0.00
Wetland Scrub/Shrub - Deciduous	264	1.88%	60.80	15.20	209.49	162.40	9.36%	8	0.53
Wetland Scrub/Shrub - Evergreen	81	0.58%	18.65	4.66	21.72	16.84	27.7%	2	0.43
Wetland Scrub/Shrub - Mixed	24	0.17%	5.53	1.38	39.46	30.59	4.52%	2	1.45
Total	14028	100.00%	3230.49	807.62	15226.15	11803.22	6.84%	198	0.24

DAILY DIST. COVERED (nautical miles)

04/30/01 397.36

05/2/01 (N723) 478.84

05/02/01 (N727) 509.36

05/04/01 368.35

06/12/01 638.56

06/13/01 838.00

Total Distance Flown For All Surveys (n. mi.) 3230.49

sq. n. mi. = square nautical mile



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Table 5. Calculated number of active colonies in unsurveyed habitats of south Louisiana, 2001.

Habitat Land Cover (A)	# of Points (B)	% of Total Points (C)	Habitat Surveyed (nautical miles) (D)	Total Habitat Surveyed (square nautical miles) (E)	Total Habitat in Study Area (sq. n. mi.) (F)	% Surveyed per Habitat (G)	# Active Colonies per Habitat (H)
Brackish Marsh	744	5.30%	171.33	42.83	836.85	5.12%	3
Fresh Marsh	2503	17.84%	576.41	144.10	1113.11	12.95%	48
Intermediate Marsh	1461	10.41%	336.45	84.11	418.12	20.12%	9
Saline Marsh	1255	8.95%	289.01	72.25	453.25	15.94%	78
Forested & Scrub/Shrub Habitats	4516	32.19%	1039.98	259.99	4142.91	6.28%	60
Other Habitats	3549	25.30%	817.30	204.33	4838.98	4.22%	0
Total	14028	100.00%	3230.49	807.62	11803.22	6.84%	198

Habitat Land Cover (A)	# Active Colonies per sq. n. mi of Surveyed Area (I)	# New Colonies Found in Habitat Surveyed (J)	# New Colonies per sq. n. mi. of Surveyed Area (K)	Calculated # of New Colonies by Unsurveyed Habitat for Study Area (L)	Calculated # of Unsurveyed Colonies by Unsurveyed Habitat for Study Area (M)	Calculated Total Colonies by Habitat for Study Area (N)
Brackish Marsh	0.07	0	0.00	0	0	3
Fresh Marsh	0.33	14	0.10	108	94	142
Intermediate Marsh	0.11	6	0.07	30	24	33
Saline Marsh	1.08	7	0.10	44	37	115
Forested & Scrub/Shrub Habitats	0.23	9	0.03	143	134	194
Other Habitats	0.00	0	0.00	0	0	0
Total	1.81	36	0.30	325	289	487

sq. n. mi. = square nautical mile

Spreadsheet Equation Formulas for Column Headings:

A = Combined Habitat (see Table 4)

B = Number of points in each habitat from flight tracks (points are five seconds apart)

C = B / 14028 (total # of points)

D = C * 3230 (total miles flown; see Table 4)

E = D * 0.25 (transect width)

F = Calculated from GIS (see Figure 1)

G = E / F

H = From Table 1

I = H / E

J = From Table 1

K = J / E

L = K * F

M = L - J

N = M + H

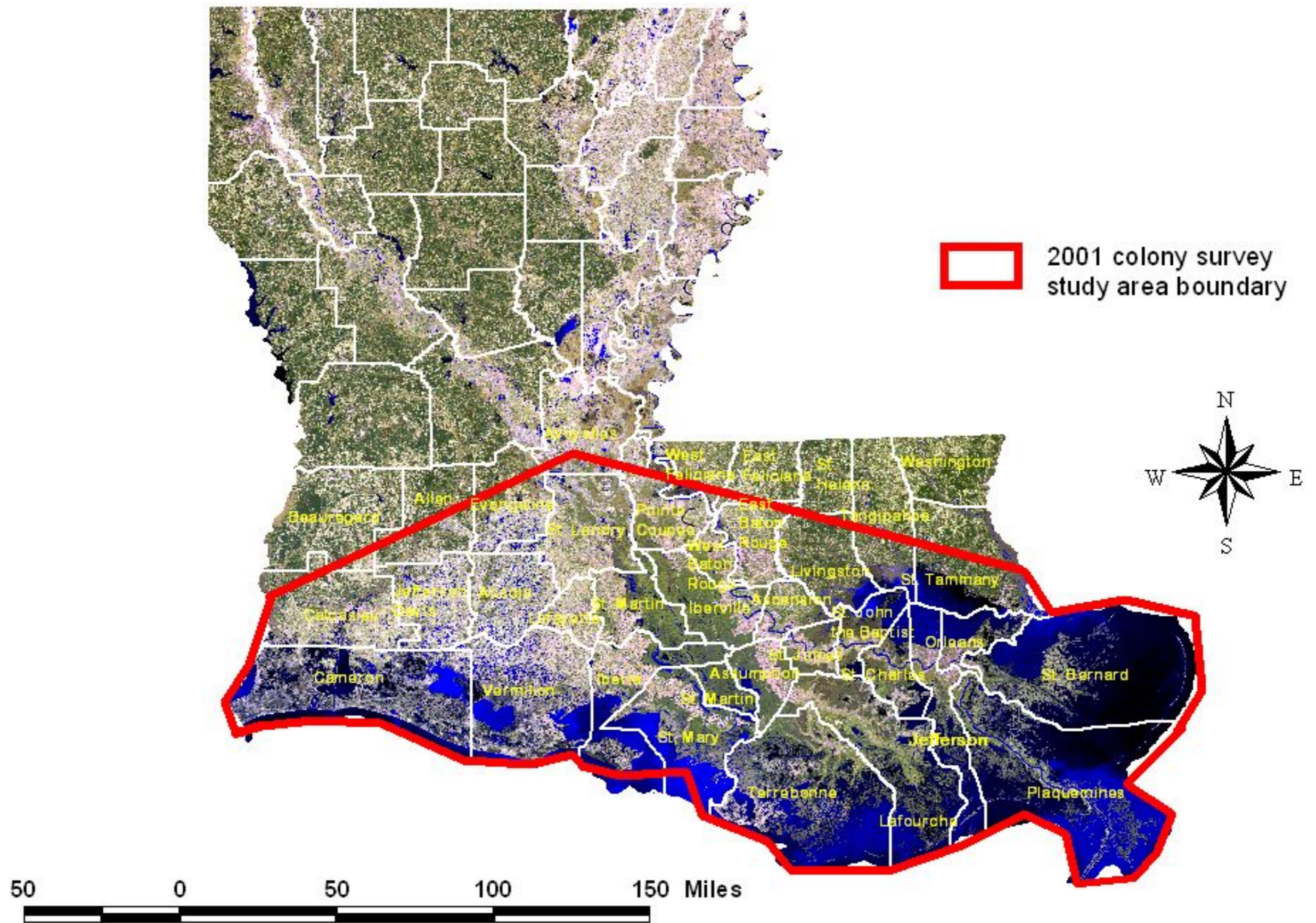


Figure 1. Map of study area for the 2001 colony survey (see text for description and boundary coordinates).

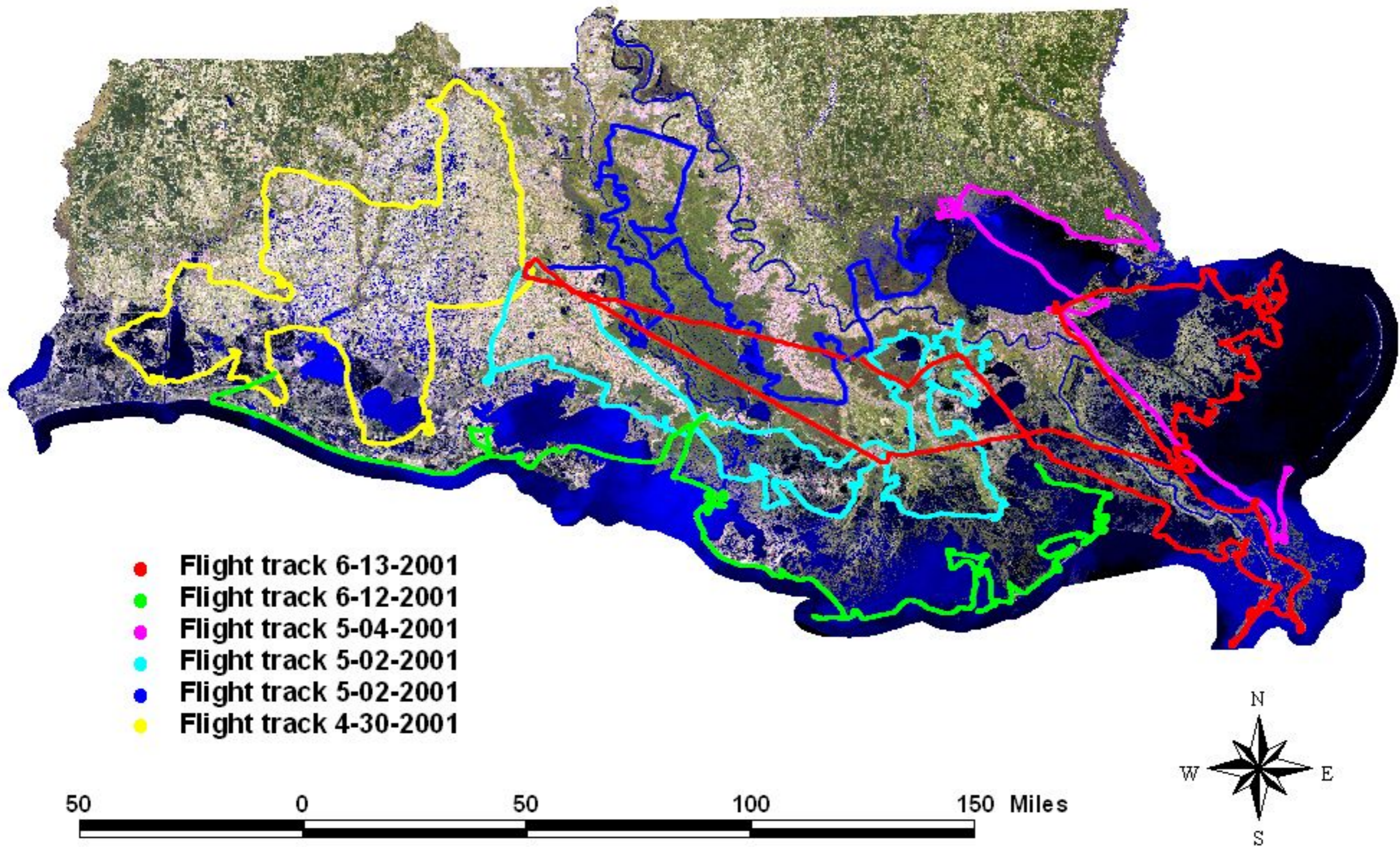


Figure 2. Aircraft flight tracks and survey dates for the 2001 colony survey of south Louisiana.

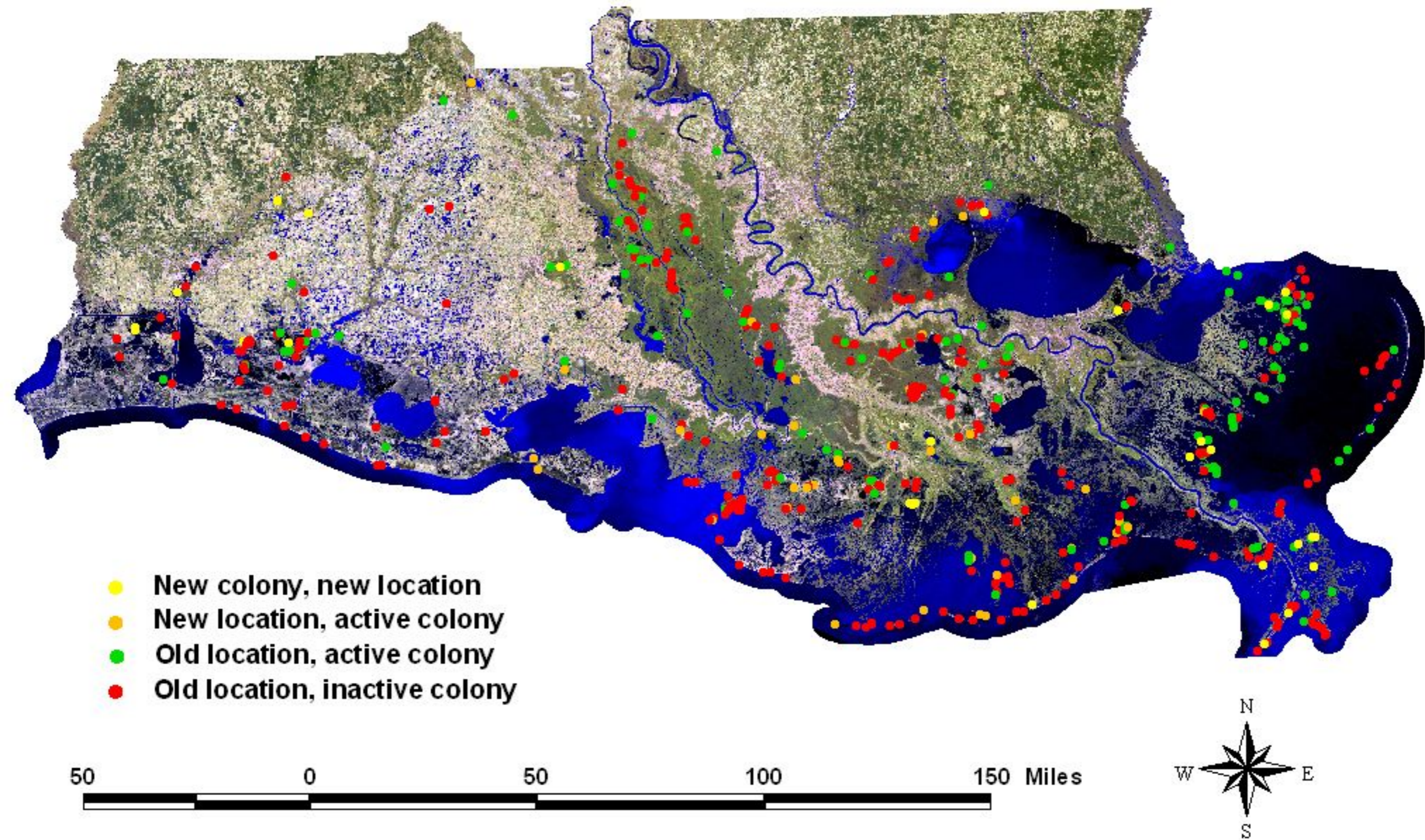


Figure 3. Colony locations by activity and location status for the 2001 colony survey of south Louisiana.

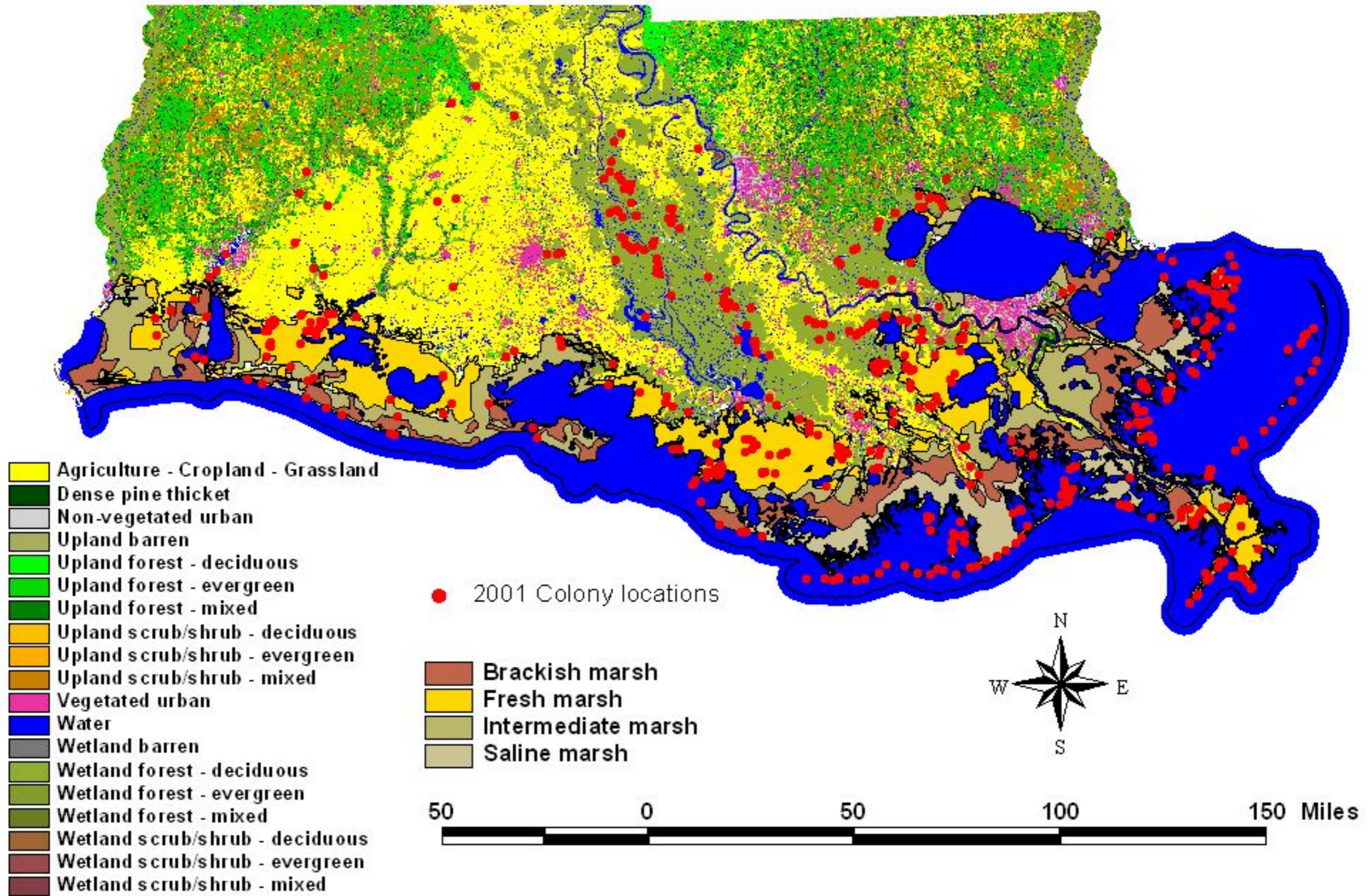


Figure 4. Colony locations by habitat type for the 2001 colony survey of south Louisiana (habitat data from 2000 Louisiana Gap Analysis Project (U.S.Geological Survey, 2000)).

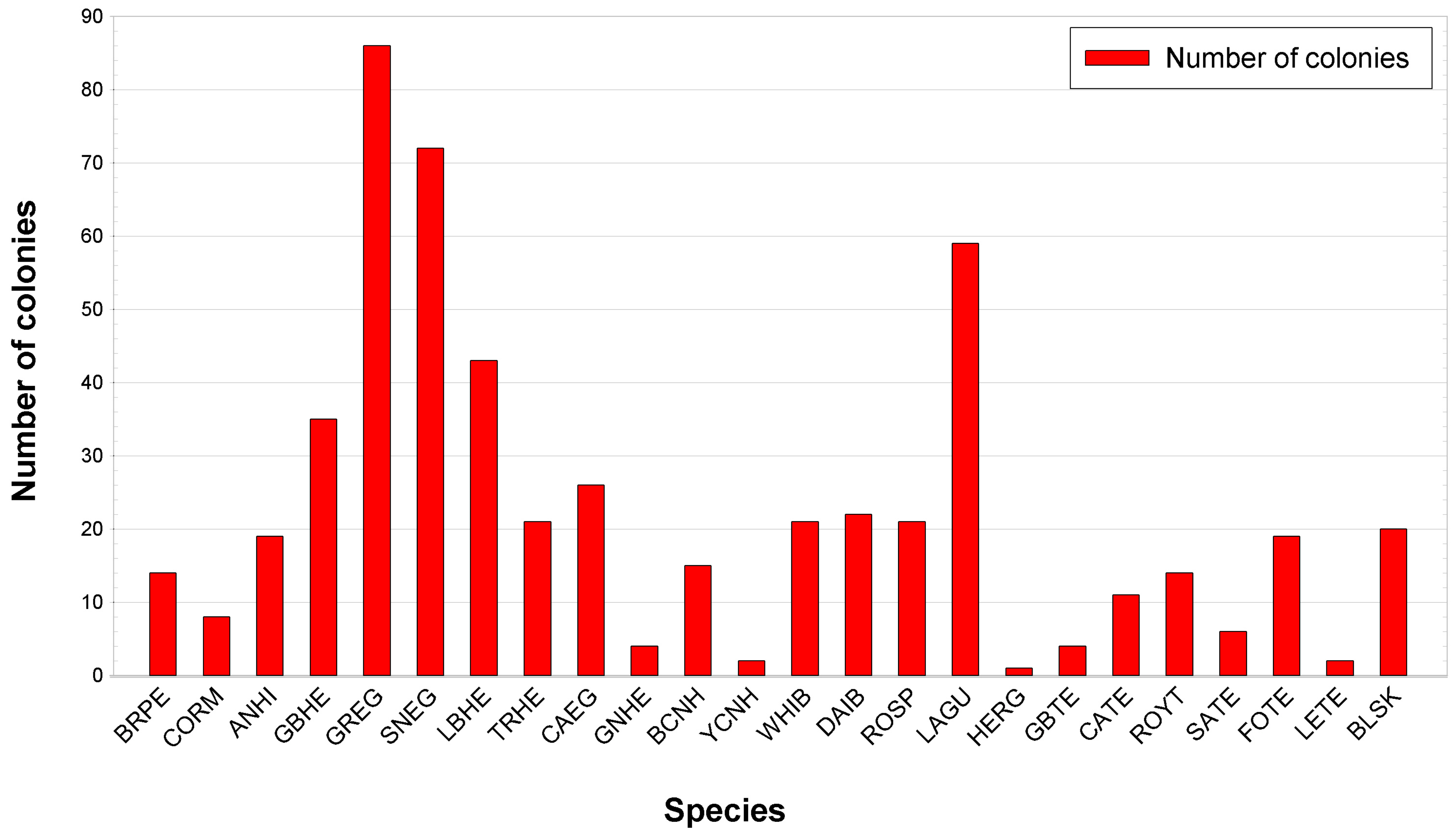


Figure 5. Number of colonies by species for 2001 colony survey of south Louisiana (see Appendix A for species abbreviations).

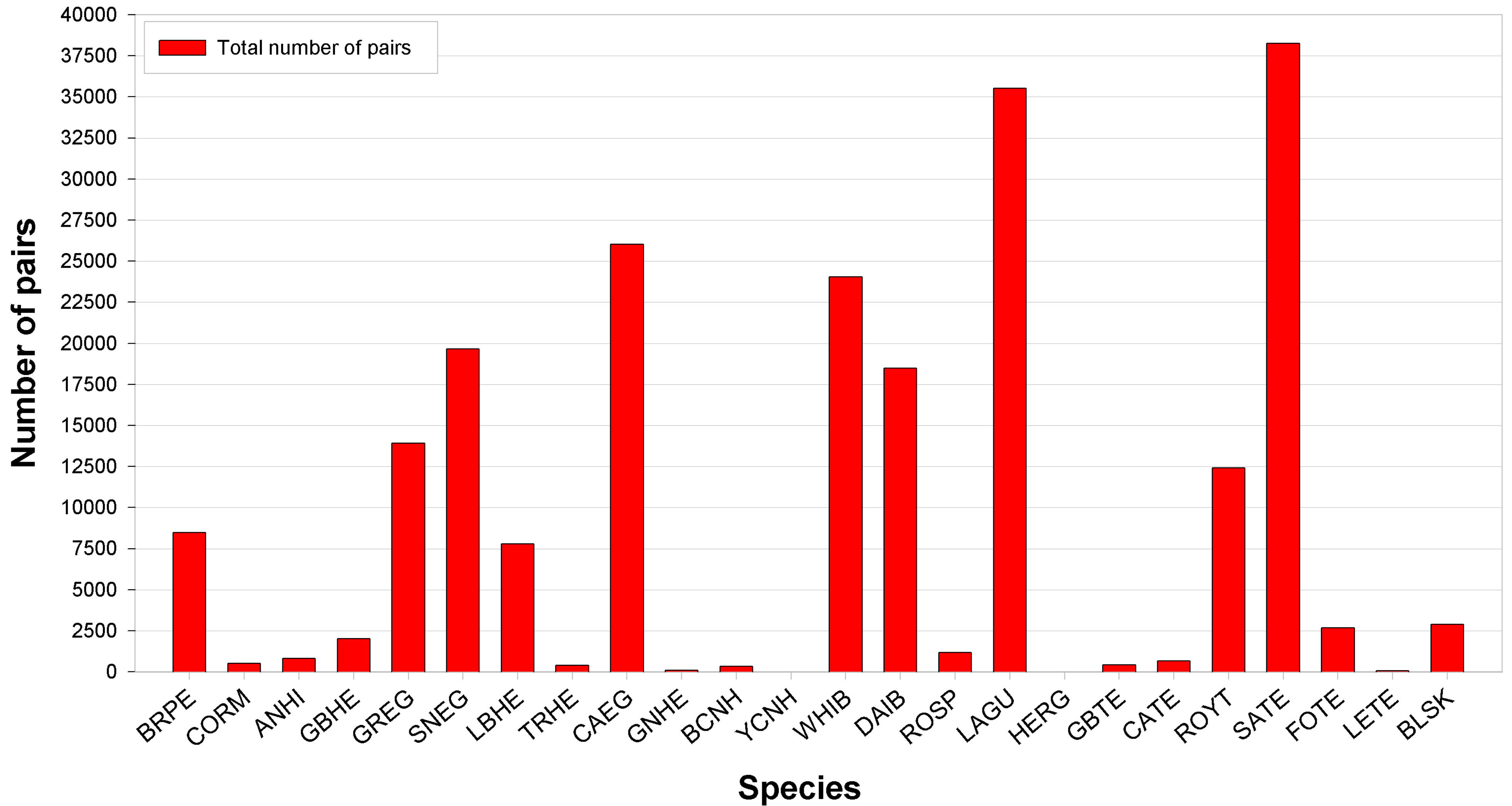


Figure 6. Total number of bird pairs surveyed by species for 2001 colony survey of south Louisiana (see Appendix A for species abbreviations).

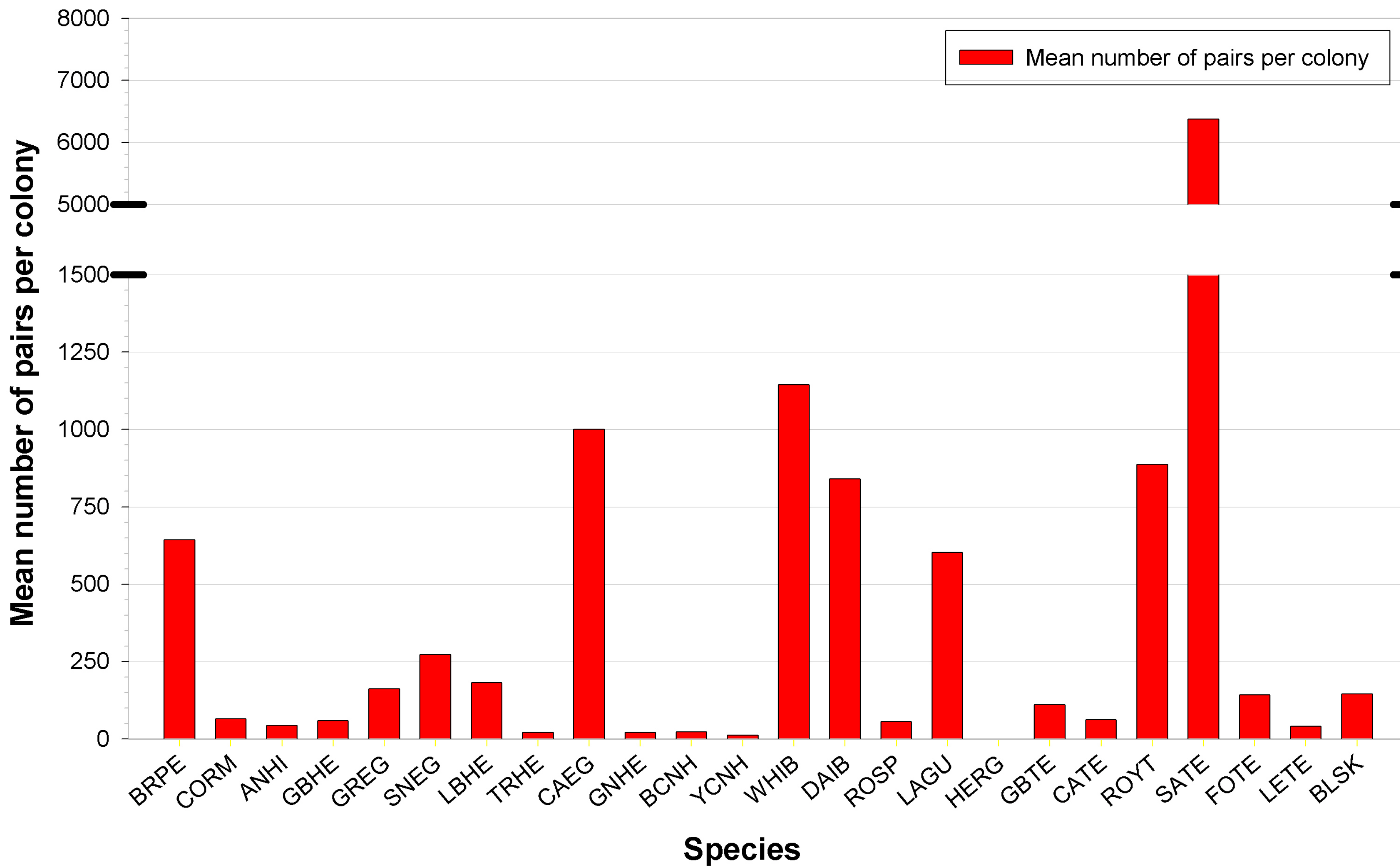


Figure 7. Mean number of bird pairs per colony by species for 2001 colony survey of south Louisiana (see Appendix A for species abbreviations).

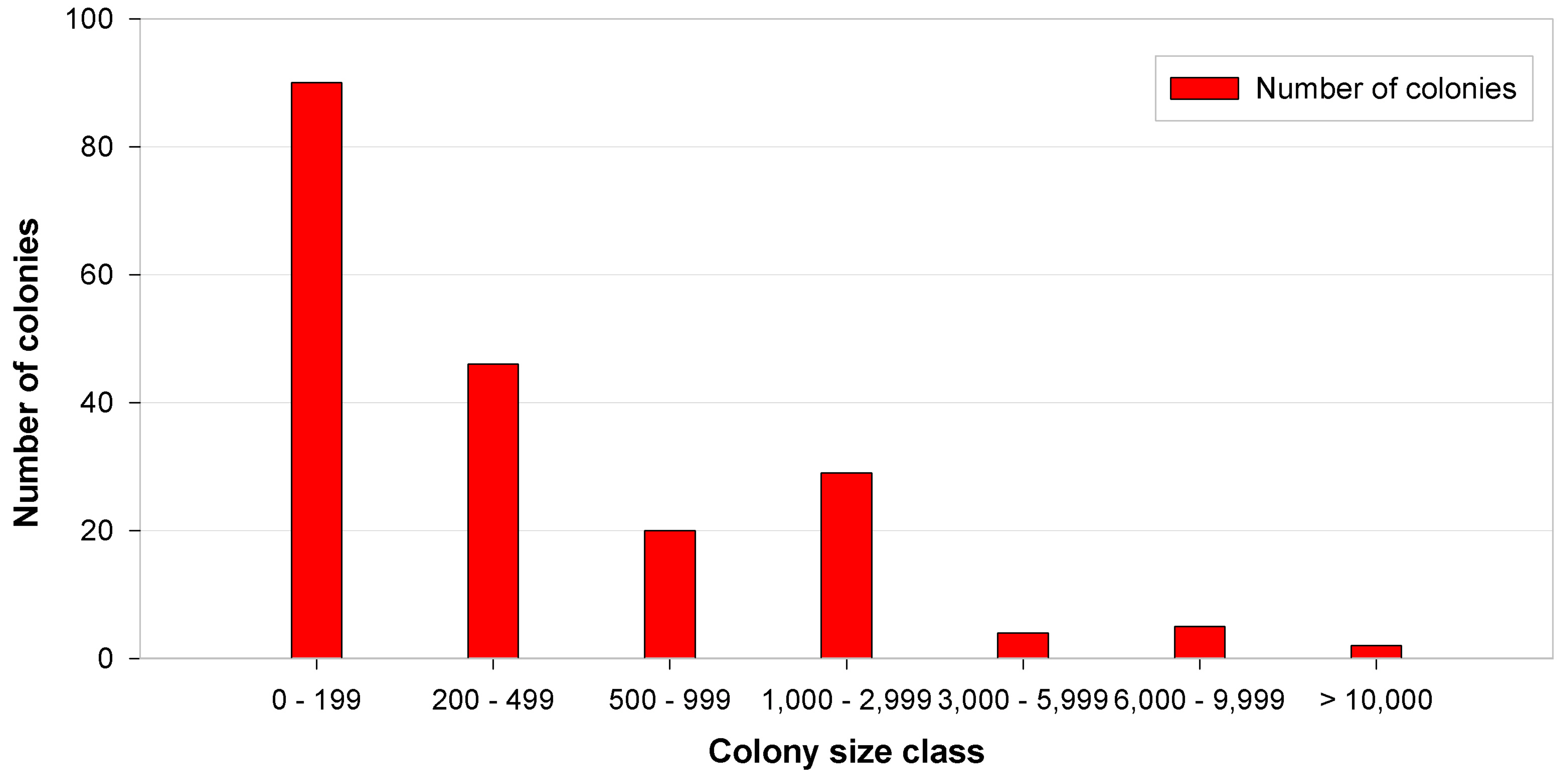


Figure 8. Frequency histogram of colonies by size class (number of pairs) for the 2001 colony survey of south Louisiana.

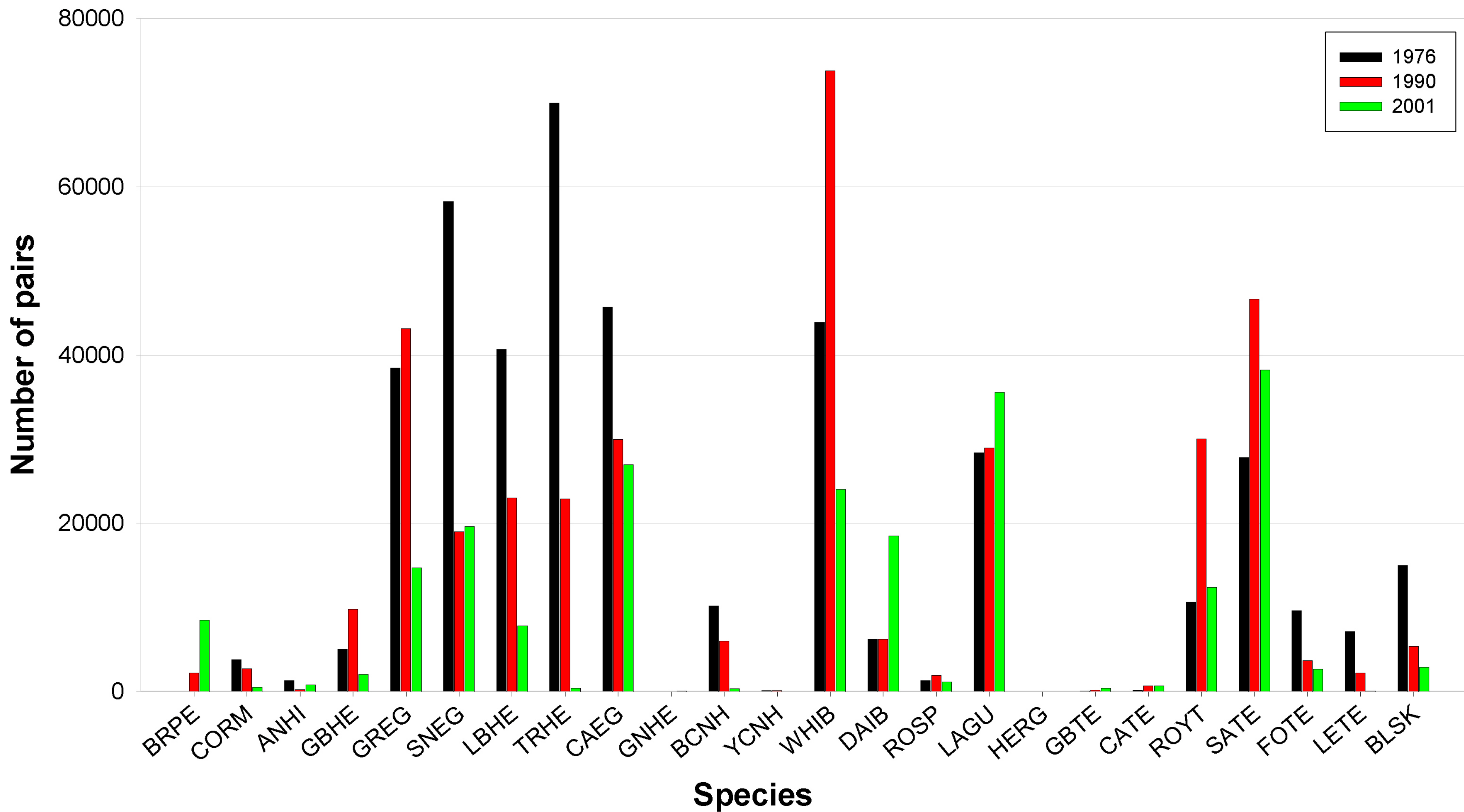


Figure 9. History of total number of bird pairs by species by year (data from previous years taken from Portnoy (1977) and Martin and Lester (1990); see Appendix A for species abbreviations).

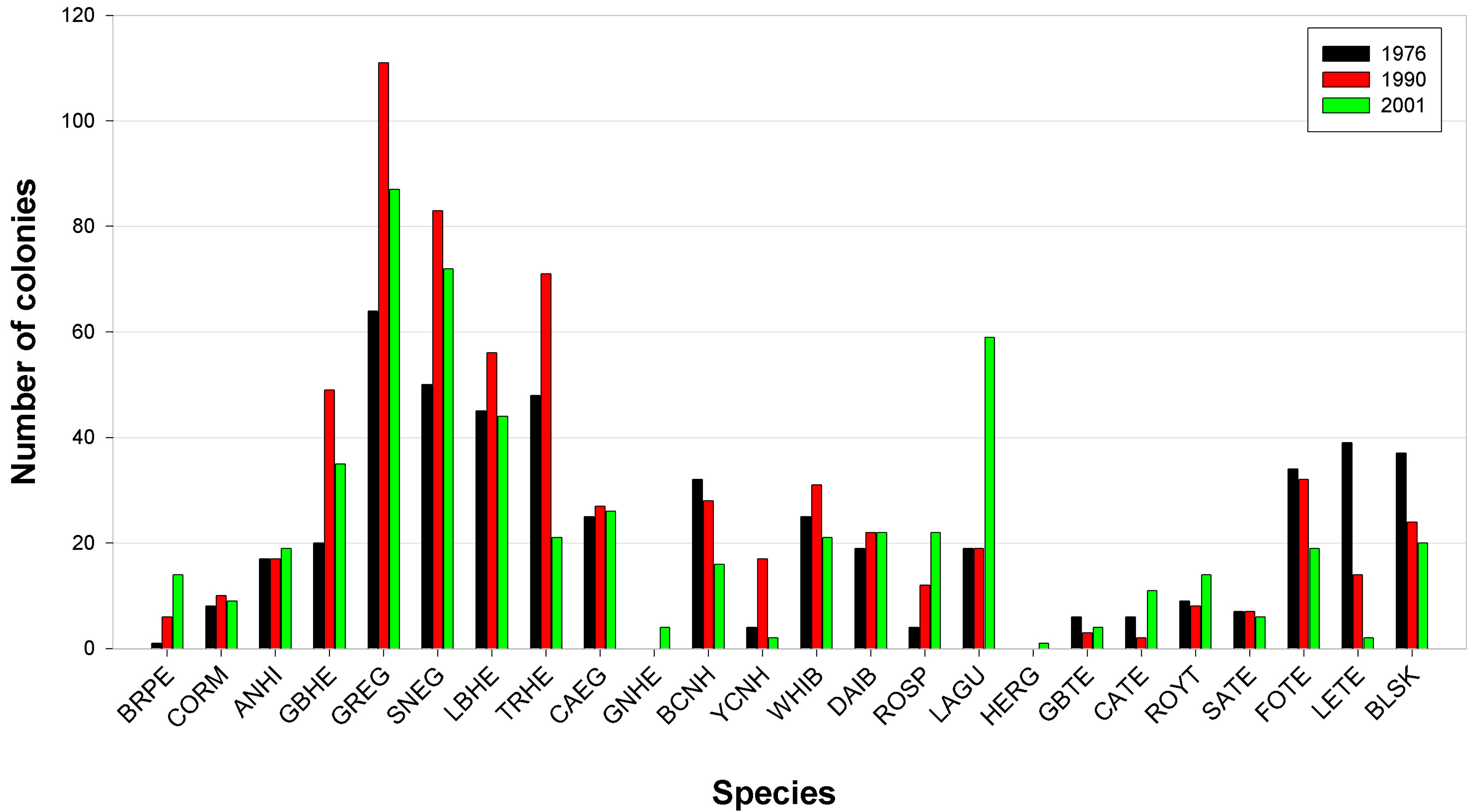


Figure 10. History of total number of colonies by species by year (data from previous years taken from Portnoy (1977) and Martin and Lester (1990); see Appendix A for species abbreviations).



Atlas and Census of Wading Bird and Seabird Nesting Colonies in South Louisiana, 2001

Appendix A. Species and abbreviation codes used for the 2001 Colony Survey.

<u>Abbreviation Code</u>	<u>Common Name</u>	<u>Scientific Name</u>
BRPE	Brown Pelican	<i>Pelecanus occidentalis</i>
CORM	Cormorant	<i>Phalacrocorax</i> spp.
ANHI	Anhinga	<i>Anhinga anhinga</i>
GBHE	Great Blue Heron	<i>Ardea herodias</i>
GREG	Great Egret	<i>Ardea alba</i>
SNEG	Snowy Egret	<i>Egretta thula</i>
LBHE	Little Blue Heron	<i>Egretta caerulea</i>
TRHE	Tricolored Heron	<i>Egretta tricolor</i>
CAEG	Cattle Egret	<i>Bubulcus ibis</i>
GNHE	Green Heron	<i>Butorides virescens</i>
BCNH	Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>
YCNH	Yellow-crowned Night-Heron	<i>Nycticorax violaceus</i>
WHIB	White Ibis	<i>Eudocimus albus</i>
DAIB	Dark Ibis	<i>Plegadis</i> spp.
ROSP	Roseate Spoonbill	<i>Platalea ajaja</i>
LAGU	Laughing Gull	<i>Larus atricilla</i>
HERG	Herring Gull	<i>Larus argentatus</i>
GBTE	Gull-billed Tern	<i>Sterna nilotica</i>
CATE	Caspian Tern	<i>Sterna caspia</i>
ROYT	Royal Tern	<i>Sterna maxima</i>
SATE	Sandwich Tern	<i>Sterna sandvicensis</i>
FOTE	Forster's Tern	<i>Sterna forsteri</i>
LETE	Least Tern	<i>Sterna antillarum</i>
BLSK	Black Skimmer	<i>Rynchops niger</i>



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Appendix B. Colonies that were active in 2001, including number of pairs by species and totals by colony and by species; see appendix A for list of species abbreviations.

All Colonies are active - No inactive colonies displayed

New colonies start with #562

Codes for colonies with letter designations for numbers

A: Colony is active, but no species or counts given

B: Colony is active, species given, but no counts

**Colony number is the same as ECOCODE in LDWF database.

<u>Colony Number**</u>	<u>GBHE</u>	<u>LBHE</u>	<u>TRHE</u>	<u>YCNH</u>	<u>GNHE</u>	<u>BCNH</u>	<u>GREG</u>	<u>CAEG</u>	<u>SNEG</u>	<u>BRPE</u>	<u>HERG</u>	<u>LAGU</u>	<u>BLSK</u>	<u>ROSP</u>	<u>FOTE</u>	<u>CATE</u>	<u>SATE</u>	<u>ROYT</u>	<u>LETE</u>	<u>GBTE</u>	<u>ANHI</u>	<u>WHIB</u>	<u>DAIB</u>	<u>NECO</u>	<u>Total Pairs/ Colony</u>	
1	110						80		75																265	
2		22							130																	152
3										445	2	1805							425							2677
7													20		75											95
16															450											450
17		75						37	38																	150
20		40	10				82		10					160												302
21									2														1185			1187
29															80											80
31															30											30
32															195											195
34												225														225
35												10	10													20
40						5						125			275				20							425
42			20									1120	40		195	205						20	220			1820
45		20					5		5																	30
51																			85							85
53		20				10			175																	205
55										125		815							635							1575
61							450		300																	750
63							450	125																		575
64		20					145																			165
66									2	8		5770							450							6230
69												65														65
70												230	110							40						380
82													360				894	131								1385

83					400		200		29562	8493		38655
84	20											20
89			200									200
91	20		50			4500	80					4650
93			5	20	10							35
99	20		20									40
100		75			225						150	450
101	1										10	11
102		150			300						3650	4100
104			30		250							280
105	50		50									100
107						10		250				260
108			30		20	10		175				235
109								10				10
117		75		37	38							150
132					12							12
133								125		25		150
136	100		100		300							500
137					65	1090	10					1165
140					95	300	40		50		550	1035
141											40	40
145								33				33
153					1100		15		20	2827	1103	5065
154								145				145
155								340			1800	2140
158	20			40	40							100
159			100									100
165									15			15
169					100							100
170	40		60									100
171	300		300		300						100	1000
174			10		125							135
176					142				17			159
181								450				450
182								450				450
186			30		3270			780		4925		9005
192	3				20						55	78
202		15	50	995	50							1110
204								675				675
205								120		65		185
208					2	240	10				10	262
211		10	10	20	20	675	125	110	20			990
214			6									6
218			75					30	30		120	255

439									1500				150						1650
440		10		50		10		525	40	2	205		145		40				1027
441								55											55
442								4											4
444									115		85								200
448					125														125
454					30										40		20		90
457					10														10
458		1	20					570							50				641
461																			A
462											20	20	125						165
468	40				40	120													200
471							2600	3075											5675
472		200			10	6500											1000		7710
477																			A
478						175		550							405				1130
479								5											5
483																480			480
496	80				120														200
497		20				275													295
500	100				100														200
503		75				38	37												150
505				10				825			75				40				950
506								450							125				575
507				10				125			30				75				240
508								30											30
509												30							30
512		20	10		20	25	25												100
513		300				350	350												1000
514											125								125
515		10	11				330									142			493
516		10	10		50	10	350												430
518											10								10
519			145				35	925											1105
525		10	40				20	275	5										350
531		30			20		70												120
532		50				50													100
533	20				80														100
534	30				70														100
535		135													1250	20			1405
536	10				310									20					340
537		135				875													1010
540					15		85												100

541											201									60		261			
542											175			25								200			
548							625				600	30								275		1530			
549	115	20			5	225														125		490			
559											450			150	175							775			
562																				9500		9500			
563	30				20	787	950								2						250	2039			
564	270					5	5	80							10							370			
565	25							225														250			
566						10		40														50			
567								25														25			
568					44	2								10								56			
569	82					192		138												138		550			
570	20	10			30	45		420														525			
571						4																4			
572						65		20														85			
573					5			35													100	140			
574						20																20			
575						38					305											343			
576											35											35			
577								20			4											24			
578											120	20										140			
579						20					325	40		10								395			
580											75	150										225			
581								350														350			
582						5		25														30			
583								10														10			
584	10	10				200		125														345			
585	10				25	80		60														175			
588					10																	10			
589						15																15			
590	24					15															5	44			
591																				500	300	800			
592	50	35	15		30	20	275	485	195					80					5	450	120	1760			
593																				5	500	505			
594	2					20	50							5					2		20	99			
595						100		20													56	176			
596						25		25													100	150			
597						B		B												B	B	0			
Total # Pairs	2019	7804	410	21	85	329	13928	28037	17674	8477	2	35532	2905	1168	2690	682	38258	12422	80	440	830	24036	18473	522	215249

Analysis

	<u>GBHE</u>	<u>LBHE</u>	<u>TRHE</u>	<u>YCNH</u>	<u>GNBH</u>	<u>BCNH</u>	<u>GREG</u>	<u>CAEG</u>	<u>SNEG</u>	<u>BRPE</u>	<u>HERG</u>	<u>LAGU</u>	<u>BLSK</u>	<u>ROSP</u>	<u>FOTE</u>	<u>CATE</u>	<u>SATE</u>	<u>ROYT</u>	<u>LETE</u>	<u>GBTE</u>	<u>ANHI</u>	<u>WHIB</u>	<u>DAIB</u>	<u>NECO</u>	<u>Colony Totals</u>
# of Colonies	35	43	21	2	4	15	86	26	71	14	1	59	20	21	19	11	6	14	2	4	19	21	21	8	
Mean # Pairs/ Colony	58	182	20	11	21	22	162	1078	249	606	2	602	145	56	142	62	6376	887	40	110	44	1145	880	65	

Appendix C. Complete list of colonies surveyed in 2001 sorted by colony number, including last survey date, coordinates, species present, colony status, habitat, and colony history.

COLONY NUMBER = "LNHP code" of Martin and Lester (1990) and "ECOCODE" used in current colony database (see Martin and Lester 1990 to cross reference with earlier reports).

LASTOBS = Last date that the colony was observed as active.

LAST_SVY = Last date that the colony site was surveyed.

LATDEC = Latitude in decimal degrees.

LONGDEC = Longitude in decimal degrees (* -1).

STATUS CODE: 1 = Inactive colony, old location
 2 = Active colony, old location
 3 = Active colony, new location
 4 = New colony, new location

PARISH - see Figure 1.

HISTORY is presented for colonies up to number 305, current through 1990. Colonies numbered 306-356 do not correspond to those same numbers from Martin and Lester (1990) -- those numbers were reassigned to new colonies after 1990. Colonies numbered 357-561 were added during partial surveys between 1991 and 1999. New colonies from 2001 begin with colony number 562. Size classes from 1976 and 1978 were changed from previous reports to reflect pairs, not total adult birds (see text).

HISTORY CODES: * = Colony not surveyed
 0 = No nesting activity
 1 = 2 to 100 pairs present
 2 = 100 to 500 pairs present
 3 = 500 to 1000 pairs present
 4 = 1000 to 5000 pairs present
 5 = 5000 to 10000 pairs present
 6 = 10000 to 15000 pairs present
 7 = over 15000 pairs present
 11 = Colony is active, but species or counts unknown

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
1	5/2/2001	5/2/2001	29.6888	-91.0724	GBHE, GREG, SNEG	3	Wetland Forest - Deciduous	Assumption	3	3	4	4	2
2	5/2/2001	5/2/2001	29.6661	-91.0425	LBHE, SNEG	2	Wetland Forest - Deciduous	Terrebonne	3	3	4	0	2
3	6/12/2001	6/12/2001	29.3000	-89.9500	BRPE, HERG, LAGU, ROYT	2	Saline	Jefferson	7	5	3	4	4
4	7/1/1997	6/12/2001	29.2931	-89.9078	inactive	1	Saline	Jefferson	1	0	4	1	0
7	6/12/2001	6/12/2001	29.4167	-89.8667	FOTE, BLSK	2	Saline	Plaquemines	1	2	4	0	1
11	6/14/1996	6/14/2001	29.2653	-90.1011	inactive	1	Saline	Lafourche	1	0	3	2	0
16	6/12/2001	6/12/2001	29.2792	-90.0689	FOTE	3	Saline	Lafourche	*	*	3	2	2
17	5/4/2001	5/4/2001	29.2736	-90.0667	LBHE, SNEG, CAEG,	2	Saline	Lafourche	*	*	3	2	2
19	6/13/1995	5/2/2001	29.8000	-90.6167	inactive	1	Wetland Scrub/Shrub - Evergreen	Lafourche	*	*	2	4	0
20	5/2/2001	5/2/2001	29.5953	-90.9122	GREG, LBHE, TRHE, SNEG, ROSP	3	Wetland Forest - Deciduous	Terrebonne	*	*	3	4	2
21	5/2/2001	5/2/2001	29.5815	-90.9131	DAIB, SNEG	3	Fresh	Terrebonne	*	*	4	4	4
24	6/13/1983	4/30/2001	29.8500	-93.1000	inactive	1	Intermediate	Cameron	*	*	3	0	0
25	6/13/1983	4/30/2001	29.8500	-93.1000	inactive	1	Intermediate	Cameron	*	*	1	0	0
26	7/2/1997	6/12/2001	29.1167	-90.1667	inactive	1	Saline	Lafourche	1	2	2	4	0
27	6/17/1998	6/13/2001	29.6917	-89.5458	inactive	1	Saline	St. Bernard	3	2	3	2	0
29	6/13/2001	6/13/2001	29.6306	-89.5958	FOTE	2	Saline	Plaquemines	*	*	4	4	1
30	6/15/1989	6/13/2001	29.7167	-89.5708	inactive	1	Saline	St. Bernard	*	*	4	0	0
31	6/13/2001	6/13/2001	29.7139	-89.5639	FOTE	2	Saline	St. Bernard	*	*	4	0	1
32	6/13/2001	6/13/2001	29.7034	-89.5728	FOTE	3	Saline	St. Bernard	*	*	3	4	2

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
33	6/9/1993	6/13/2001	29.7014	-89.5625	inactive	1	Saline	St. Bernard	*	*	3	1	0
34	6/13/2001	6/13/2001	29.6139	-89.5611	LAGU	2	Saline	Plaquemines	6	3	4	2	2
35	6/13/2001	6/13/2001	29.5639	-89.5833	LAGU, BLSK	2	Saline	Plaquemines	2	0	2	2	1
37	6/7/1983	6/13/2001	29.5739	-89.5667	inactive	1	Saline	Plaquemines	*	*	2	0	0
38	6/15/1999	6/13/2001	29.5767	-89.5903	inactive	1	Saline	Plaquemines	*	*	1	2	0
40	6/13/2001	6/13/2001	29.5236	-89.5611	FOTE, BCNH, LAGU, GBTE	2	Saline	Plaquemines	*	*	1	1	2
41	6/7/1983	6/13/2001	29.5167	-89.5778	inactive	1	Saline	Plaquemines	*	*	2	0	0
42	6/13/2001	6/13/2001	29.5042	-89.5306	TRHE, LAGU, BLSK, FOTE, CATE, WHIB, DAIB	2	Saline	Plaquemines	*	*	2	2	4
43	5/28/1996	4/30/2001	29.8833	-93.0833	inactive	1	Fresh	Cameron	2	1	4	4	0
44	4/26/1990	4/30/2001	29.9000	-93.0833	inactive	1	Fresh	Cameron	*	*	2	4	0
45	5/2/2001	5/2/2001	29.5989	-90.5732	GREG, LBHE, SNEG	3	Wetland Scrub/Shrub - Deciduous	Lafourche	*	*	4	0	1
46	6/13/1995	6/10/2001	29.4833	-89.1667	inactive	1	Saline	Plaquemines	2	2	4	2	0
47	6/18/1999	6/10/2001	29.4667	-89.2000	inactive	1	Wetland Barren	Plaquemines	3	2	3	2	0
48	4/24/1990	5/2/2001	30.3333	-91.6500	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	4	1	0
49	6/13/1996	6/12/2001	29.0833	-90.2500	inactive	1	Saline	Lafourche	*	*	2	0	0
50	6/11/1990	5/2/2001	29.9483	-90.8464	inactive	1	Wetland Forest - Deciduous	St. James	2	0	0	3	0
51	6/12/2001	6/12/2001	29.0716	-90.3848	ROYT	3	Saline	Lafourche	5	5	4	4	1
52	6/14/1993	5/2/2001	29.9194	-90.7414	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	1	0
53	5/2/2001	5/2/2001	29.9732	-90.5949	BCNH, LBHE, SNEG	3	Fresh	St. John the Baptist	3	3	0	2	2
55	6/11/1999	6/12/2001	29.0945	-90.6110	BRPE, LAGU, ROYT	3	Saline	Terrebonne	*	*	2	3	4
56	6/3/1983	4/30/2001	29.7782	-92.3858	inactive	1	Wetland Scrub/Shrub - Deciduous	Vermilion	*	*	3	0	0
57	6/13/1983	5/2/2001	30.1833	-91.6833	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	5	0	0
58	6/24/1997	6/12/2001	29.0500	-90.8036	inactive	1	Saline	Terrebonne	*	1	2	2	0
59	6/11/1999	6/12/2001	29.0489	-90.8581	inactive	1	Saline	Terrebonne	*	*	4	0	0
60	5/3/1988	6/12/2001	29.6833	-92.2000	inactive	1	Intermediate	Vermilion	3	1	2	1	0
61	6/12/2001	6/12/2001	29.5948	-92.0237	GREG, SNEG	3	Brackish	Vermilion	3	2	3	4	3
62	6/13/1983	4/30/2001	29.7000	-92.6000	inactive	1	Fresh	Vermilion	*	*	1	0	0
63	5/2/2001	5/2/2001	29.9058	-91.9108	CAEG, GREG	2	Wetland Forest - Deciduous	Iberia	3	3	3	4	3
64	5/2/2001	5/2/2001	29.8800	-91.9073	GREG, LBHE	3	Wetland Forest - Deciduous	Iberia	3	2	2	3	2
65	6/22/1989	6/13/2001	29.0111	-89.3306	inactive	1	Intermediate	Plaquemines	3	0	2	0	0
66	6/13/2001	6/13/2001	30.0333	-89.1833	LAGU, BRPE, SNEG, ROYT	2	Saline	St. Bernard	2	1	2	0	5
67	6/11/1990	5/2/2001	29.6689	-90.3903	inactive	1	Wetland Forest - Deciduous	Lafourche	2	3	0	1	0
68	6/18/1999	6/13/2001	30.0167	-89.2333	inactive	1	Saline	St. Bernard	*	*	2	0	0
69	6/13/2001	6/13/2001	30.0172	-89.2181	LAGU	2	Saline	St. Bernard	*	*	2	*	1
70	6/13/2001	6/13/2001	30.0667	-89.2000	LAGU, LETE, BLSK	2	Saline	St. Bernard	*	*	2	1	2
71	4/26/1988	6/13/2001	30.0667	-89.2167	inactive	1	Saline	St. Bernard	*	*	2	0	0
72	5/27/1997	5/3/2001	29.4833	-90.6333	inactive	1	Intermediate	Terrebonne	*	*	4	1	0
74	6/15/1989	6/12/2001	29.0500	-90.7000	inactive	1	Saline	Terrebonne	*	*	2	0	0

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
75	4/26/1990	4/30/2001	29.9833	-93.5500	inactive	1	Intermediate	Cameron	*	*	3	2	0
76	6/14/1983	4/30/2001	29.7833	-92.3833	inactive	1	Wetland Scrub/Shrub - Deciduous	Vermilion	*	*	4	0	0
77	6/13/1995	5/2/2001	29.6500	-90.4167	inactive	1	Fresh	Lafourche	*	*	2	0	0
78	6/2/1983	5/2/2001	29.6833	-90.4000	inactive	1	Fresh	Lafourche	*	*	4	0	0
79	6/14/1983	5/2/2001	29.7167	-90.5000	inactive	1	Wetland Forest - Deciduous	Lafourche	*	*	3	0	0
80	4/26/1990	4/30/2001	29.7667	-92.9333	inactive	1	Intermediate	Cameron	3	3	4	3	0
81	4/26/1990	4/30/2001	29.7728	-92.9056	inactive	1	Brackish	Cameron	2	2	3	3	0
82	6/13/2001	6/13/2001	29.5667	-89.0500	BLSK, SATE, ROYT	2	Saline	Plaquemines	4	2	4	2	4
83	6/14/2001	6/14/2001	29.5333	-89.0833	BRPE, BLSK, SATE, ROYT	2	Saline	Plaquemines	2	3	2	7	7
84	5/2/2001	5/2/2001	29.8388	-91.0645	GBHE	3	Wetland Forest - Deciduous	Assumption	*	*	1	1	1
85	5/16/1988	5/2/2001	29.8500	-91.1167	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	4	0	0
86	6/12/1995	5/2/2001	30.3333	-91.4500	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	4	2	0
87	6/8/1999	5/2/2001	30.3606	-91.4508	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	3	2	0
88	6/2/1983	5/2/2001	29.8833	-90.4500	inactive	1	Fresh	St. Charles	5	3	4	0	0
89	6/13/2001	6/13/2001	29.8775	-90.3775	GREG	2	Wetland Forest - Deciduous	St. Charles	6	4	4	4	2
90	6/2/1983	5/2/2001	29.9167	-90.4500	inactive	1	Fresh	St. Charles	*	*	2	0	0
91	4/30/2001	4/30/2001	29.8500	-93.3833	GBHE, GREG, LAGU, ROSP	2	Brackish	Cameron	6	4	7	6	4
92	5/16/1988	5/10/2001	29.5167	-90.8000	inactive	1	Wetland Forest - Deciduous	Terrebonne	3	5	4	0	0
93	5/2/2001	5/2/2001	29.6223	-90.7175	CAEG, GREG, SNEG	3	Fresh	Terrebonne	*	*	1	0	1
94	5/14/1997	6/13/2001	30.1500	-89.2000	inactive	1	Saline	St. Bernard	3	3	2	0	0
97	6/9/1998	5/2/2001	29.8167	-91.7000	inactive	1	Wetland Forest - Deciduous	St. Mary	3	2	2	4	0
98	5/16/1988	5/2/2001	30.2833	-90.6167	inactive	1	Wetland Forest - Deciduous	Livingston	3	0	3	2	0
99	5/2/2001	5/2/2001	30.3324	-90.5458	GREG, GBHE	3	Wetland Forest - Deciduous	Livingston	2	2	2	3	1
100	5/2/2001	5/2/2001	29.8000	-90.6333	DAIB, LBHE, SNEG	2	Fresh	Lafourche	6	4	3	4	2
101	5/2/2001	5/2/2001	29.7887	-90.6314	DAIB, GBHE	3	Fresh	Lafourche	*	*	2	0	1
102	5/2/2001	5/2/2001	29.7983	-90.6478	LBHE, SNEG, WHIB	3	Wetland Scrub- Shrub - Evergreen	Lafourche	*	*	3	4	4
103	6/14/1999	5/2/2001	29.9667	-90.6000	inactive	1	Fresh	St. John the Baptist	3	3	4	3	0
104	5/2/2001	5/2/2001	29.9500	-90.5083	GREG, SNEG	2	Fresh	St. Charles	6	4	4	4	2
105	5/2/2001	5/2/2001	29.9000	-90.8167	GREG, GBHE	2	Wetland Forest - Deciduous	Lafourche	4	3	5	4	1
106	4/26/1988	6/13/2001	29.6833	-89.4500	inactive	1	Saline	St. Bernard	3	*	1	*	0
107	6/13/2001	6/13/2001	29.6500	-89.4667	LAGU, FOTE	2	Saline	St. Bernard	4	2	1	0	2
108	6/13/2001	6/13/2001	29.7333	-89.4500	SNEG, GREG, BRPE, LAGU	2	Saline	St. Bernard	*	*	3	2	2
109	6/13/2001	6/13/2001	29.6833	-89.4667	LAGU	2	Saline	St. Bernard	*	*	3	2	1
113	6/10/1997	6/12/2001	29.2568	-90.4320	inactive	1	Saline	Terrebonne	*	*	2	0	0

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
114	6/9/1998	5/2/2001	30.2333	-91.5333	inactive	1	Wetland Forest - Deciduous	St. Martin	2	2	2	2	0
115	6/9/1998	5/2/2001	30.1500	-91.5167	inactive	1	Wetland Forest - Deciduous	St. Martin	5	3	3	2	0
116	4/24/1990	5/2/2001	30.2167	-91.6167	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	2	2	0
117	5/2/2001	5/2/2001	30.2261	-91.5936	SNEG, CAEG, LBHE	2	Wetland Forest - Deciduous	St. Martin	*	*	4	2	2
118	6/14/1983	5/2/2001	29.5333	-91.2833	inactive	1	Fresh	St. Mary	4	3	6	0	0
119	6/7/1994	5/2/2001	29.4833	-90.8000	inactive	1	Fresh	Terrebonne	*	*	6	0	0
120	6/2/1983	5/2/2001	29.3758	-90.8469	inactive	1	Fresh	Terrebonne	*	*	2	0	0
121	6/11/1990	5/2/2001	29.7775	-90.6269	inactive	1	Fresh	Lafourche	*	*	2	1	0
122	6/13/1983	4/30/2001	29.8975	-92.9600	inactive	1	Fresh	Cameron	*	*	2	0	0
123	4/26/1996	4/30/2001	30.0000	-92.8500	inactive	1	Fresh	Cameron	*	*	7	5	0
124	4/26/1996	4/30/2001	29.9667	-92.8667	inactive	1	Fresh	Cameron	*	*	2	3	0
125	6/14/1983	5/2/2001	29.7333	-90.5000	inactive	1	Wetland Scrub/Shrub - Deciduous	Lafourche	*	*	3	0	0
126	6/7/1993	5/2/2001	30.0667	-91.2333	inactive	1	Wetland Scrub/Shrub - Deciduous	Iberville	*	*	3	2	0
127	6/14/1993	5/2/2001	29.9333	-90.6667	inactive	1	Agriculture - Cropland - Grassland	St. James	*	*	2	4	0
128	6/14/1993	5/2/2001	29.9167	-90.7000	inactive	1	Wetland Forest - Deciduous	St. James	*	*	2	2	0
129	6/2/1983	5/2/2001	29.9500	-90.6500	inactive	1	Fresh	St. John the Baptist	*	*	3	0	0
130	4/25/1990	5/2/2001	29.8833	-90.3000	inactive	1	Fresh	St. Charles	2	0	2	2	0
131	6/4/1997	5/2/2001	29.9500	-90.8833	inactive	1	Wetland Forest - Deciduous	St. James	3	0	4	4	0
132	5/4/2001	5/4/2001	29.2875	-89.1931	SNEG	2	Fresh	Plaquemines	*	*	4	3	1
133	6/13/2001	6/13/2001	30.0833	-89.4667	CATE, LAGU	2	Saline	St. Bernard	*	*	6	3	2
134	6/13/1983	5/4/2001	30.3500	-90.4500	Colony Not Surveyed		Wetland Forest - Deciduous	Tangipahoa	2	7	2	0	*
135	6/9/1998	5/2/2001	30.3833	-91.6167	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	4	2	0
136	5/2/2001	5/2/2001	30.4722	-91.7239	GBHE, GREG, SNEG	2	Wetland Forest - Deciduous	St. Martin	3	4	6	4	2
137	6/13/2001	6/13/2001	29.9667	-89.2000	BRPE, LAGU, BLSK	2	Saline	St. Bernard	3	2	5	4	4
140	6/13/2001	6/13/2001	29.9000	-89.2000	LAGU, BRPE, BLSK, CATE, ROYT	2	Saline	St. Bernard	2	2	4	1	4
141	6/13/2001	6/13/2001	29.9822	-89.2225	LETE	2	Saline	St. Bernard	*	*	4	0	1
143	6/17/1998	6/13/2001	29.8072	-89.3464	inactive	1	Wetland Scrub/Shrub - Deciduous	St. Bernard	1	2	2	0	0
145	6/13/2001	6/13/2001	29.8333	-89.3000	LAGU	2	Saline	St. Bernard	*	*	5	3	1
148	6/13/1995	6/10/2001	29.8667	-88.9000	inactive	1	Saline	St. Bernard	2	2	2	0	0
151	6/16/1994	6/10/2001	29.8564	-88.9128	inactive	1	Saline	St. Bernard	3	0	2	1	0
152	5/1/1989	6/13/2001	29.7000	-91.4833	inactive	1	Wetland Forest - Deciduous	St. Mary	5	3	4	0	0
153	6/14/2001	6/14/2001	29.8833	-88.8667	BRPE, BLSK, CATE, SATE, ROYT	2	Saline	St. Bernard	3	3	3	4	5

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
154	6/13/2001	6/13/2001	29.9236	-89.3453	LAGU	2	Wetland Scrub/Shrub - Deciduous	St. Bernard	1	*	3	0	4
155	6/13/2001	6/13/2001	29.9208	-89.2625	LAGU, WHIB	2	Saline	St. Bernard	3	3	5	0	4
156	6/13/1983	4/30/2001	29.6833	-92.3500	inactive	1	Fresh	Vermilion	*	*	5	0	0
157	6/11/1999	6/12/2001	29.2411	-90.3097	inactive	1	Saline	Lafourche	*	*	3	0	0
158	5/2/2001	5/2/2001	30.1183	-91.3075	GBHE, CAEG, SNEG,	2	Wetland Forest - Deciduous	Iberville	6	3	7	4	1
159	6/13/2001	6/13/2001	29.2167	-89.3750	GREG	2	Fresh	Plaquemines	2	0	2	0	1
160	6/19/1997	6/12/2001	29.2481	-91.2778	inactive	1	Brackish	Terrebonne	1	0	1	0	0
161	6/19/1997	6/19/2001	29.3289	-91.3525	inactive	1	Brackish	Terrebonne	*	*	1	0	0
162	6/14/1983	6/12/2001	29.4667	-91.3167	inactive	1	Fresh	St. Mary	*	*	4	0	0
163	7/2/1991	6/12/2001	29.4433	-91.2925	inactive	1	Saline	St. Mary	*	*	3	2	0
164	6/20/1997	6/12/2001	29.4406	-91.2758	inactive	1	Fresh	St. Mary	*	*	7	4	0
165	6/13/2001	6/13/2001	29.7500	-89.3667	FOTE	2	Saline	St. Bernard	2	2	3	3	1
167	4/25/1990	5/4/2001	30.3833	-90.4000	inactive	1	Wetland Forest - Deciduous	Tangipahoa	2	2	5	3	0
168	6/14/1993	5/2/2001	30.1000	-90.5667	inactive	1	Wetland Forest - Deciduous	St. John the Baptist	3	2	3	1	0
169	5/4/2001	5/4/2001	30.2333	-89.6767	SNEG	2	Fresh	St. Tammany	*	*	3	4	1
170	5/2/2001	5/2/2001	30.1583	-90.4919	GBHE, GREG	2	Wetland Forest - Deciduous	St. John the Baptist	3	2	4	4	1
171	5/2/2001	5/2/2001	30.1667	-90.7833	GBHE, GREG, SNEG, ANHI	2	Wetland Scrub/Shrub - Deciduous	Ascension	*	*	4	4	4
172	6/15/1999	6/13/2001	28.9772	-89.1547	inactive	1	Saline	Plaquemines	1	0	3	4	0
173	5/30/1990	6/13/2001	29.0000	-89.1667	inactive	1	Saline	Plaquemines	*	*	1	2	0
174	6/13/2001	6/13/2001	29.1097	-89.2236	GREG, SNEG	2	Fresh	Plaquemines	*	*	4	3	2
175	6/9/1997	5/2/2001	29.8306	-90.5181	inactive	1	Fresh	Lafourche	*	*	*	1	0
176	6/13/2001	6/13/2001	29.6333	-88.9667	BRPE, CATE	2	Saline	Plaquemines	7	7	5	7	2
177	6/9/1993	6/10/2001	29.7000	-88.9333	inactive	1	Saline	St. Bernard	*	*	2	0	0
178	6/13/1990	6/10/2001	29.7333	-88.8833	inactive	1	Saline	St. Bernard	*	*	5	1	0
179	6/2/1983	5/2/2001	29.8306	-90.5181	inactive	1	Fresh	Lafourche	*	*	4	0	0
181	6/13/2001	6/13/2001	30.0500	-89.2500	LAGU	2	Saline	St. Bernard	*	*	2	0	2
182	6/13/2001	6/13/2001	30.0167	-89.2667	LAGU	2	Saline	St. Bernard	*	*	4	1	0
183	5/12/1983	4/30/2001	30.1333	-92.8667	inactive	1	Agriculture - Cropland - Grassland	Jefferson Davis	*	*	4	0	0
184	4/26/1990	4/30/2001	30.2111	-93.2628	inactive	1	Fresh	Calcasieu	*	*	2	2	0
185	4/26/1990	4/30/2001	30.1500	-93.3000	inactive	1	Wetland Forest - Mixed	Calcasieu	*	*	3	2	0
186	6/12/2001	6/12/2001	29.0525	-90.9338	GREG, BRPE, LAGU, SATE	3	Saline	Terrebonne	7	7	7	7	5
190	6/14/1995	5/2/2001	29.3694	-90.2681	inactive	1	Brackish	Lafourche	*	*	*	2	0
192	5/4/2001	5/4/2001	30.4481	-90.3383	ANHI, GBHE, SNEG,	2	Wetland Forest - Deciduous	Tangipahoa	*	*	*	1	1
193	4/24/1990	5/2/2001	30.0458	-91.2450	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	3	4	0
194	5/23/1994	5/2/2001	30.0111	-91.2389	inactive	1	Wetland Forest - Deciduous	Iberia	*	*	3	0	0
196	7/9/1987	6/12/2001	29.0647	-90.4856	inactive	1	Saline	Terrebonne	*	*	*	0	0
198	6/14/1999	5/2/2001	29.8294	-90.3992	inactive	1	Wetland Forest - Deciduous	St. Charles	*	*	*	0	0

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
199	4/26/1990	4/30/2001	29.6481	-92.3833	inactive	1	Wetland Scrub/Shrub - Deciduous	Vermilion	*	*	*	7	0
201	6/11/1990	5/2/2001	29.8053	-90.6208	inactive	1	Fresh	Lafourche	*	*	*	3	0
202	6/12/2001	6/12/2001	29.1802	-90.0653	BCNH, GREG, TRHE, SNEG	3	Saline	Jefferson	*	*	*	2	4
203	6/17/1998	5/4/2001	30.0503	-89.8428	inactive	1	Intermediate	Orleans	*	*	*	4	0
204	6/13/2001	6/13/2001	30.1533	-89.4744	LAGU	2	Wetland Scrub/Shrub - Deciduous	St. Bernard	4	3	4	2	3
205	6/13/2001	6/13/2001	30.1367	-89.4306	LAGU, CATE	2	Saline	St. Bernard	*	*	3	1	2
206	4/26/1988	6/13/2001	30.0961	-89.2367	inactive	1	Saline	St. Bernard	*	*	*	0	0
207	6/9/1993	6/13/2001	30.0625	-89.1736	inactive	1	Saline	St. Bernard	*	*	*	0	0
208	6/13/2001	6/13/2001	30.0111	-89.2297	BRPE, LAGU, BLSK, ROYT	2	Saline	St. Bernard	*	*	*	0	2
209	6/18/1999	6/13/2001	30.0050	-89.2319	inactive	1	Saline	St. Bernard	*	*	*	2	0
211	6/13/2001	6/13/2001	29.7403	-89.3506	TRHE, GREG, SNEG, BRPE, LAGU, BLSK, FOTE, CATE	2	Saline	St. Bernard	*	*	*	0	3
212	4/26/1988	6/13/2001	29.7019	-89.5514	inactive	1	Saline	St. Bernard	*	*	*	0	0
213	6/14/1996	6/13/2001	29.0478	-89.1861	inactive	1	Fresh	Plaquemines	*	*	*	1	0
214	6/13/2001	6/13/2001	29.1144	-89.1242	GREG	2	Fresh	Plaquemines	*	*	*	1	1
215	6/14/1999	5/2/2001	29.8417	-90.2975	inactive	1	Fresh	St. Charles	*	*	*	3	0
218	6/12/2001	6/12/2001	29.3622	-89.8928	GREG, LAGU, FOTE, ROYT	3	Saline	Plaquemines	7	0	0	2	2
219	5/20/1997	6/12/2001	29.3772	-89.8906	inactive	1	Saline	Plaquemines	3	0	0	3	0
221	4/26/1990	4/30/2001	29.9414	-92.9150	inactive	1	Fresh	Cameron	*	*	*	1	0
222	4/30/2001	4/30/2001	29.9419	-92.9358	YCNH	2	Fresh	Cameron	*	*	*	0	1
223	4/30/2001	4/30/2001	29.9722	-92.8606	GBHE	2	Fresh	Cameron	5	3	4	3	1
224	5/1/1989	4/30/2001	30.0486	-93.3925	inactive	1	Intermediate	Cameron	2	0	0	0	0
225	4/30/2001	4/30/2001	29.9428	-93.0925	GBHE, LBHE, GREG, BCNH, SNEG, ROSP, ANHI	2	Fresh	Cameron	*	*	*	2	4
227	4/30/2001	4/30/2001	30.7400	-92.3453	CAEG, DAIB, LBHE, SNEG, ANHI, WHIB	2	Wetland Forest - Deciduous	Evangeline	7	*	*	7	7
228	5/2/2001	5/2/2001	30.2128	-91.9019	ROSP, CAEG, GREG, LBHE, SNEG	2	Wetland Forest - Deciduous	St. Martin	*	*	*	7	5
231	6/15/1989	6/12/2001	29.7564	-93.1147	inactive	1	Upland Barren	Cameron	1	0	0	0	0
232	6/15/1989	6/12/2001	29.7022	-92.9389	inactive	1	Saline	Cameron	*	*	*	*	0
233	5/28/1996	6/12/2001	29.6439	-92.7936	inactive	1	Saline	Cameron	*	*	*	*	0
234	5/28/1996	6/12/2001	29.5786	-92.6000	inactive	1	Saline	Vermilion	*	*	*	*	0
235	7/23/1997	6/12/2001	29.5758	-92.5817	inactive	1	Saline	Vermilion	*	*	*	*	0
236	6/8/1999	6/12/2001	29.2039	-91.1103	inactive	1	Saline	Terrebonne	1	*	0	2	0
237	6/11/1990	5/2/2001	29.5040	-90.2841	inactive	1	Intermediate	Lafourche	*	*	*	2	0
238	6/11/1990	6/12/2001	29.0642	-90.6406	inactive	1	Saline	Terrebonne	*	2	0	0	0
239	6/24/1997	6/12/2001	29.0567	-90.4342	inactive	1	Saline	Terrebonne	1	1	1	0	0
240	6/22/1989	6/12/2001	29.0889	-90.5378	inactive	1	Saline	Terrebonne	*	*	*	0	0
241	6/11/1999	6/12/2001	29.1350	-90.1297	inactive	1	Saline	Lafourche	*	*	*	1	0
242	6/11/1990	5/2/2001	29.6456	-90.4689	inactive	1	Fresh	Lafourche	*	*	*	2	0
243	6/8/1993	6/13/2001	29.0242	-89.3214	inactive	1	Intermediate	Plaquemines	3	3	0	2	0
244	6/13/2001	6/13/2001	29.4103	-89.4756	BLSK	2	Saline	Plaquemines	*	*	*	0	1
245	6/13/2001	6/13/2001	29.5169	-89.5311	LAGU	2	Saline	Plaquemines	*	*	*	4	1
246	6/13/2001	6/13/2001	29.5303	-89.5419	TRHE, BCNH, GREG, SNEG, LAGU, ROSP	2	Saline	Plaquemines	*	*	*	4	4
247	5/2/2001	5/2/2001	30.5728	-91.3400	GREG, SNEG	2	Wetland Forest - Deciduous	West Baton Rouge	*	*	*	4	1

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
248	4/24/1990	5/2/2001	30.6008	-91.6861	inactive	1	Wetland Forest - Deciduous	Pointe Coupee	*	*	*	2	0
249	6/11/1995	5/2/2001	30.4483	-91.6178	inactive	1	Wetland Forest - Deciduous	Iberville	3	0	0	2	0
250	6/8/1998	5/2/2001	30.4517	-91.6403	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	2	0
251	5/2/2001	5/2/2001	30.3586	-91.6764	LBHE, CAEG, GBHE, SNEG, ANHI, GREG	2	Wetland Forest - Deciduous	St. Martin	3	4	0	2	1
252	6/8/1999	5/2/2001	30.2194	-91.5678	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	3	0
253	6/11/1995	5/2/2001	30.1864	-91.5147	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	2	0
254	6/14/1999	5/2/2001	29.7747	-90.6383	inactive	1	Fresh	Lafourche	*	*	*	2	0
255	6/9/1997	5/2/2001	29.9067	-90.7172	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	4	0
256	5/2/2001	5/2/2001	29.4694	-90.7831	GREG	2	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	3	2
257	6/17/1998	5/2/2001	30.3058	-90.6117	inactive	1	Vegetated Urban	Livingston	*	*	*	2	0
258	4/24/1990	5/2/2001	29.8908	-91.1269	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	4	0
259	6/15/1993	6/12/2001	29.4317	-91.2767	inactive	1	Wetland Forest - Deciduous	St. Mary	*	*	*	4	0
260	6/29/1996	6/12/2001	29.4278	-91.2783	inactive	1	Fresh	St. Mary	*	*	*	2	0
261	6/29/1996	6/12/2001	29.4208	-91.2797	inactive	1	Fresh	St. Mary	*	*	*	2	0
262	6/13/1983	6/12/2001	29.4203	-91.2728	inactive	1	Fresh	St. Mary	*	*	*	1	0
263	5/30/1990	6/12/2001	29.4350	-91.3183	inactive	1	Fresh	St. Mary	*	*	*	4	0
264	6/8/1999	6/12/2001	29.4306	-91.3242	inactive	1	Fresh	St. Mary	*	*	*	3	0
265	6/12/2001	6/12/2001	29.4267	-91.3281	GBHE, GREG, TRHE, ROSP, WHIB	2	Fresh	St. Mary	*	*	*	4	2
266	5/18/1996	6/12/2001	29.4236	-91.3197	inactive	1	Fresh	St. Mary	*	*	*	4	0
267	4/25/1990	5/2/2001	30.2061	-90.7197	inactive	1	Wetland Forest - Deciduous	Livingston	*	*	*	2	0
268	6/17/1998	5/4/2001	30.3822	-90.4064	inactive	1	Wetland Forest - Deciduous	Tangipahoa	*	*	*	7	0
270	4/30/1990	6/13/2001	29.2544	-89.4253	inactive	1	Intermediate	Plaquemines	*	*	*	2	0
271	4/30/1990	6/13/2001	29.2361	-89.4242	inactive	1	Intermediate	Plaquemines	*	*	*	2	0
272	6/8/1993	6/13/2001	29.2364	-89.3569	inactive	1	Wetland Forest - Deciduous	Plaquemines	2	0	0	2	0
273	4/30/1990	6/13/2001	29.2500	-89.3522	inactive	1	Fresh	Plaquemines	*	*	*	2	0
274	6/14/1999	5/4/2001	30.3822	-90.3750	inactive	1	Wetland Forest - Deciduous	Tangipahoa	*	*	*	2	0
275	5/27/1997	5/2/2001	30.1675	-91.5117	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	2	0
276	6/9/1993	6/13/2001	29.8328	-89.3089	inactive	1	Saline	St. Bernard	*	*	*	1	0
277	6/13/2001	6/13/2001	29.8419	-89.3089	LAGU, SNEG, FOTE, ROYT	2	Saline	St. Bernard	*	*	*	3	2
278	6/14/1996	6/13/2001	29.5744	-89.5733	inactive	1	Saline	Plaquemines	*	*	*	3	0
279	4/26/1990	4/30/2001	29.9231	-92.8947	inactive	1	Fresh	Cameron	3	2	0	3	0
280	6/18/1999	6/10/2001	29.8161	-88.9772	inactive	1	Saline	St. Bernard	*	2	*	1	0
281	4/27/1988	6/10/2001	29.4986	-89.1725	inactive	1	Saline	Plaquemines	*	*	*	0	0

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
282	4/25/1997	5/2/2001	30.0856	-90.6333	inactive	1	Wetland Forest - Deciduous	St. John the Baptist	4	2	0	4	0
283	5/30/1990	6/13/2001	29.2386	-89.5492	inactive	1	Saline	Plaquemines	*	*	*	1	0
284	6/15/1999	6/13/2001	29.2892	-89.6728	inactive	1	Saline	Plaquemines	1	0	0	3	0
286	6/11/1999	6/12/2001	29.1617	-90.0914	inactive	1	Saline	Lafourche	*	*	*	2	0
287	6/8/1993	6/13/2001	28.9342	-89.4017	inactive	1	Wetland Barren	Plaquemines	*	*	*	2	0
288	7/16/1997	6/13/2001	29.0236	-89.2044	inactive	1	Saline	Plaquemines	*	*	*	2	0
289	5/23/1994	5/2/2001	30.1306	-91.5047	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	2	0
290	5/2/2001	5/2/2001	30.0567	-91.4583	GBHE, LBHE, GREG, SNEG, ANHI	2	Wetland Forest - Deciduous	Iberia	*	*	*	2	2
293	6/15/1995	4/30/2001	29.9756	-92.8783	inactive	1	Fresh	Cameron	*	*	*	2	0
294	4/30/2001	4/30/2001	30.6939	-92.0908	CAEG, GBHE, LBHE, GREG, SNEG	2	Wetland Forest - Deciduous	St. Landry	*	*	*	6	4
295	4/30/2001	4/30/2001	30.8014	-92.2442	ANHI, GREG, ROSP	3	Wetland Forest - Deciduous	Evangeline	*	*	*	3	2
296	6/8/1989	5/2/2001	29.4058	-90.2344	inactive	1	Upland Scrub/Shrub - Mixed	Lafourche	3	0	0	0	0
297	6/11/1990	6/12/2001	29.4811	-90.0667	inactive	1	Brackish	Jefferson	3	3	0	1	0
298	6/11/1999	6/12/2001	29.1714	-90.2961	inactive	1	Saline	Lafourche	*	*	*	2	0
299	6/11/1999	6/12/2001	29.1875	-90.3003	inactive	1	Wetland Barren	Lafourche	*	*	*	2	0
300	6/8/1993	6/12/2001	29.1911	-90.3242	inactive	1	Saline	Lafourche	3	3	0	1	0
302	7/13/1990	4/30/2001	29.9950	-92.9622	inactive	1	Fresh	Cameron	*	*	*	4	0
303	5/10/2001	5/10/2001	29.8995	-93.0802	GREG, ROSP, GBHE, CAEG, SNEG, ANHI	2	Fresh	Cameron	*	*	*	2	3
304	5/24/1994	5/2/2001	29.4994	-90.2975	inactive	1	Intermediate	Lafourche	*	*	*	1	0
305	5/28/1996	6/12/2001	29.7694	-93.1711	inactive	1	Saline	Cameron	1	*	*	2	0
308	5/2/2001	5/2/2001	29.6119	-90.9533	LBHE, GREG, SNEG, DAIB	2	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	*	2
309	5/2/2001	5/2/2001	29.5694	-90.9112	DAIB, SNEG, WHIB	3	Fresh	Terrebonne	*	*	*	*	4
310	6/4/1998	5/2/2001	29.4236	-91.0508	inactive	1	Fresh	Terrebonne	*	*	*	*	0
311	6/4/1998	5/2/2001	29.4289	-91.0944	inactive	1	Fresh	Terrebonne	*	*	*	*	0
312	5/2/2001	5/2/2001	29.4306	-91.1015	GREG, SNEG, ROSP, DAIB, CORM	3	Fresh	Terrebonne	*	*	*	*	3
313	5/27/1997	5/2/2001	29.4236	-91.1053	inactive	1	Fresh	Terrebonne	*	*	*	*	0
314	6/4/1997	5/2/2001	30.2381	-91.6453	inactive	1	Wetland Forest - Deciduous	St. Martin	1	*	*	*	*
315	6/4/1998	5/4/2001	29.5103	-90.7881	inactive	1	Wetland Scrub/Shrub - Deciduous	Terrebonne	7	*	*	*	*
317	6/14/1995	6/12/2001	29.2214	-90.0439	inactive	1	Saline	Jefferson	7	*	*	*	0
318	6/8/1993	6/13/2001	28.9842	-89.1508	inactive	1	Saline	Plaquemines	*	*	*	*	0
319	6/13/1995	6/13/2001	29.9833	-89.2500	inactive	1	Wetland Barren	St. Bernard	*	*	*	*	0
320	6/13/2001	6/13/2001	29.9369	-89.2858	LAGU	2	Saline	St. Bernard	*	*	*	*	1
322	6/12/1995	5/2/2001	30.0833	-90.6667	inactive	1	Wetland Forest - Deciduous	St. John the Baptist	*	*	*	*	0
323	6/14/1999	5/2/2001	30.2100	-90.7083	inactive	1	Wetland Forest - Deciduous	Livingston	*	*	*	*	0
324	6/14/1999	5/2/2001	30.3500	-90.3500	inactive	1	Agriculture - Cropland - Grassland	Tangipahoa	*	*	*	*	0

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									76	78	83	90	2001
325	6/14/1993	5/2/2001	29.8833	-90.2833	inactive	1	Wetland Forest - Deciduous	St. Charles	*	*	*	*	0
327	6/21/1995	5/2/2001	29.7450	-91.7161	inactive	1	Upland Forest - Mixed	St. Mary	*	*	*	*	0
332	8/24/1994	5/2/2001	29.8675	-92.0939	inactive	1	Agriculture - Cropland - Grassland	Vermilion	*	*	*	*	0
333	5/2/2001	5/2/2001	30.6328	-91.6517	GREG, ANHI, GBHE	2	Wetland Forest - Deciduous	Pointe Coupee	*	*	*	*	1
335	6/4/1997	5/2/2001	29.8922	-90.8619	inactive	1	Wetland Forest - Deciduous	Lafourche	*	*	*	*	0
336	6/4/1997	5/2/2001	29.9489	-90.8728	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	0
337	6/11/1999	5/2/2001	29.5558	-90.8756	inactive	1	Fresh	Terrebonne	*	*	*	*	0
339	5/2/2001	5/2/2001	29.6625	-91.1913	ANHI, GBHE, TRHE, GREG	3	Wetland Forest - Deciduous	St. Mary	*	*	*	*	2
340	5/2/2001	5/2/2001	29.4994	-91.0033	DAIB, GREG, LBHE	3	Fresh	Terrebonne	*	*	*	*	2
341	5/27/1997	5/2/2001	29.4897	-90.7608	inactive	1	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	*	0
342	6/14/1995	5/2/2001	29.4953	-90.7644	inactive	1	Fresh	Terrebonne	*	*	*	*	0
343	5/2/2001	5/2/2001	29.4356	-90.2691	GREG	3	Wetland Forest - Deciduous	Lafourche	*	*	*	*	1
344	5/24/1994	5/2/2001	29.7947	-90.5139	inactive	1	Fresh	Lafourche	*	*	*	*	0
345	5/24/1994	5/2/2001	29.7842	-90.5186	inactive	1	Fresh	Lafourche	*	*	*	*	0
346	5/24/1994	5/2/2001	29.7883	-90.5183	inactive	1	Fresh	Lafourche	*	*	*	*	0
347	5/24/1994	5/2/2001	29.5028	-91.1708	inactive	1	Fresh	Terrebonne	*	*	*	*	0
348	5/24/1994	5/2/2001	29.5389	-91.1394	inactive	1	Wetland Forest - Mixed	Terrebonne	*	*	*	*	0
350	6/12/2001	6/12/2001	29.1024	-90.2151	BCNH, GREG, ROSP	3	Saline	Lafourche	*	*	*	*	2
351	5/27/1994	4/30/2001	30.0947	-92.3428	inactive	1	Wetland Forest - Deciduous	Vermilion	*	*	*	*	0
354	8/17/1993	6/12/2001	29.5167	-91.4656	inactive	1	Fresh	St. Mary	*	*	*	*	0
355	6/29/1996	6/12/2001	29.4328	-91.2694	inactive	1	Fresh	St. Mary	*	*	*	*	0
356	7/20/1997	6/12/2001	29.4572	-91.2664	inactive	1	Fresh	St. Mary	*	*	*	*	0
357	6/6/1995	6/12/2001	29.4106	-91.3289	inactive	1	Fresh	St. Mary	*	*	*	*	0
358	5/24/1994	5/2/2001	29.7911	-90.6403	inactive	1	Fresh	Lafourche	*	*	*	*	0
359	6/14/1996	6/12/2001	29.3042	-89.8844	inactive	1	Upland Barren	Plaquemines	*	*	*	*	0
360	6/24/1997	6/12/2001	29.0436	-90.7342	inactive	1	Saline	Terrebonne	*	*	*	*	0
361	6/14/1995	6/13/2001	29.0222	-89.2044	inactive	1	Fresh	Plaquemines	*	*	*	*	0
362	6/9/1997	6/12/2001	29.5219	-90.0972	inactive	1	Brackish	Jefferson	*	*	*	*	0
363	6/11/1995	5/2/2001	30.1361	-91.5147	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
364	6/4/1997	5/2/2001	30.3542	-91.6689	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
365	5/2/2001	5/2/2001	30.2586	-91.6481	GREG, GBHE, LBHE, CAEG, SNEG, ROSP, ANHI	2	Wetland Forest - Deciduous	St. Martin	*	*	*	*	4
366	5/2/2001	5/2/2001	30.0263	-91.2220	LBHE, TRHE, GREG, CAEG	3	Wetland Forest - Deciduous	Iberville	*	*	*	*	1
367	5/2/2001	5/2/2001	29.9419	-90.6556	ANHI, GBHE, GREG	2	Fresh	St. John the Baptist	*	*	*	*	2

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
368	6/9/1997	5/2/2001	29.9203	-90.6917	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	0
369	6/12/1995	5/2/2001	29.9464	-90.6406	inactive	1	Fresh	St. John the Baptist	*	*	*	*	0
370	5/2/2001	5/2/2001	29.8981	-90.2850	DAIB, SNEG	2	Fresh	St. Charles	*	*	*	*	4
371	5/2/2001	5/2/2001	29.6820	-91.4893	GBHE, GREG	3	Wetland Forest - Deciduous	St. Mary	*	*	*	*	2
372	6/14/1999	5/2/2001	29.7822	-90.6231	inactive	1	Fresh	Lafourche	*	*	*	*	0
373	6/17/1999	5/2/2001	29.8089	-90.6253	inactive	1	Fresh	Lafourche	*	*	*	*	0
374	6/11/1999	5/2/2001	29.5006	-90.6289	inactive	1	Intermediate	Terrebonne	*	*	*	*	0
375	6/13/2001	6/13/2001	29.5641	-89.5846	BLSK, LAGU	2	Saline	Franklin	*	*	*	*	1
379	6/4/1997	5/2/2001	30.2486	-91.5278	inactive	1	Fresh	Iberville	*	*	*	*	0
380	6/12/1995	5/2/2001	30.0119	-91.2044	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0
381	5/2/2001	5/2/2001	29.9514	-90.8822	GREG, GBHE	2	Wetland Forest - Deciduous	St. James	*	*	*	*	2
382	5/8/1995	5/2/2001	29.7344	-90.3311	inactive	1	Fresh	St. Charles	*	*	*	*	0
383	6/13/1995	5/2/2001	29.7894	-90.5114	inactive	1	Fresh	Lafourche	*	*	*	*	0
384	6/14/1999	5/2/2001	29.8061	-90.6339	inactive	1	Wetland Scrub- Shrub - Evergreen	Lafourche	*	*	*	*	0
385	7/12/1995	6/13/2001	29.3811	-89.6297	inactive	1	Saline	Plaquemines	*	*	*	*	0
387	6/14/1996	6/13/2001	29.3753	-89.3053	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
388	6/18/1998	6/13/2001	29.4017	-89.3044	inactive	1	Saline	Plaquemines	*	*	*	*	0
389	7/11/1995	6/13/2001	29.0394	-89.3367	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
390	6/9/1998	5/2/2001	30.3208	-91.4478	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
392	6/13/2001	6/13/2001	29.8042	-89.2853	LAGU, SNEG, TRHE, GREG	2	Saline	St. Bernard	*	*	*	*	3
393	6/15/1999	6/13/2001	29.0083	-89.1792	inactive	1	Fresh	Plaquemines	*	*	*	*	0
394	6/14/1995	6/13/2001	28.9633	-89.3672	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
395	6/14/1995	6/13/2001	29.0689	-89.2753	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
396	6/15/1999	6/13/2001	29.0739	-89.2753	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
397	6/18/1998	6/13/2001	29.0739	-89.2597	inactive	1	Fresh	Plaquemines	*	*	*	*	0
398	6/15/1999	6/13/2001	29.0756	-89.2639	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
399	5/15/1995	4/30/2001	30.3939	-92.4031	inactive	1	Vegetated Urban	Acadia	*	*	*	*	0
400	6/13/2001	6/13/2001	29.2656	-89.4069	SNEG	2	Intermediate	Plaquemines	*	*	*	*	3
401	6/13/2001	6/13/2001	29.2664	-89.3894	LAGU, WHIB	2	Fresh	Plaquemines	*	*	*	*	3
402	6/15/1999	6/13/2001	29.2839	-89.6406	inactive	1	Saline	Plaquemines	*	*	*	*	0
403	6/14/1995	6/13/2001	29.2833	-89.6500	inactive	1	Saline	Plaquemines	*	*	*	*	0
404	6/12/2001	6/12/2001	29.4678	-90.0124	FOTE	3	Saline	Jefferson	*	*	*	*	2
405	6/12/2001	6/12/2001	29.0773	-90.4054	ROYT	3	Saline	Lafourche	*	*	*	*	1
406	6/22/1998	6/12/2001	29.1717	-90.3483	inactive	1	Saline	Lafourche	*	*	*	*	0
407	6/12/2001	6/12/2001	29.2008	-90.3438	LAGU	3	Saline	Lafourche	*	*	*	*	3
408	6/11/1999	6/12/2001	29.1453	-90.3458	inactive	1	Saline	Lafourche	*	*	*	*	0
409	6/12/2001	6/12/2001	29.1394	-90.3506	BRPE, LAGU, ROYT	2	Saline	Lafourche	*	*	*	*	4
410	5/9/1995	5/2/2001	29.6231	-90.7089	inactive	1	Vegetated Urban	Terrebonne	*	*	*	*	0
412	6/8/1999	5/2/2001	29.8964	-91.1942	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
413	6/21/1995	5/2/2001	29.9472	-91.1572	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0
414	6/21/1995	5/2/2001	30.0061	-91.1372	inactive	1	Wetland Forest - Deciduous	Assumption	*	*	*	*	0
415	5/2/2001	5/2/2001	29.8906	-91.1214	GBHE, ANHI	2	Wetland Forest - Deciduous	Assumption	*	*	*	*	1
416	6/8/1999	5/2/2001	29.4939	-91.0222	inactive	1	Fresh	Terrebonne	*	*	*	*	0
417	5/2/2001	5/2/2001	29.4894	-91.0303	GREG, ROSP, SNEG	3	Fresh	Terrebonne	*	*	*	*	1
418	6/4/1998	5/2/2001	29.6464	-91.3972	inactive	1	Wetland Forest - Deciduous	St. Mary	*	*	*	*	0
420	4/30/2001	4/30/2001	30.0014	-92.9533	WHIB, GBHE, LBHE, TRHE, YCNH, GREG, CAEG, SNEG, ROSP, ANHI, CORM, DAIB	2	Fresh	Cameron	*	*	*	*	4
421	5/15/1996	5/2/2001	30.5314	-91.6989	inactive	1	Wetland Forest - Deciduous	Pointe Coupee	*	*	*	*	0
422	5/28/1996	5/2/2001	29.8483	-92.1317	inactive	1	Wetland Forest - Deciduous	Vermilion	*	*	*	*	0
423	5/28/1969	6/12/2001	29.6683	-92.8583	inactive	1	Saline	Cameron	*	*	*	*	0
424	4/30/2001	4/30/2001	30.1600	-92.9100	GBHE, LBHE, GREG, ROSP, ANHI, CAEG	2	Wetland Scrub/shrub - Deciduous	Jefferson Davis	*	*	*	*	4
425	5/28/1996	4/30/2001	29.8375	-93.3517	inactive	1	Agriculture - Cropland - Grassland	Cameron	*	*	*	*	0
438	6/11/1996	4/30/2001	30.2500	-92.9808	inactive	1	Wetland Scrub/Shrub - Deciduous	Jefferson Davis	*	*	*	*	0
439	6/12/2001	6/12/2001	29.5597	-92.0099	BLSK, GBTE	3	Saline	Iberia	*	*	*	*	4
440	6/12/2001	6/12/2001	29.2647	-90.4450	BCNH, BLSK, TRHE, SNEG, LAGU, ROSP, FOTE, GBTE, WHIB	2	Saline	Terrebonne	*	*	*	*	4
441	6/13/2001	6/13/2001	29.6714	-89.4717	LAGU	2	Saline	St. Bernard	*	*	*	*	1
442	6/13/2001	6/13/2001	29.9936	-89.2600	LAGU	2	Saline	St. Bernard	*	*	*	*	1
443	6/10/1997	6/12/2001	29.3042	-89.8750	inactive	1	Saline	Plaquemines	*	*	*	*	0
444	6/12/2001	6/12/2001	29.3262	-89.9027	BLSK, FOTE	3	Saline	Plaquemines	*	*	*	*	2
445	6/14/1996	6/12/2001	29.3331	-89.8903	inactive	1	Saline	Plaquemines	*	*	*	*	0
446	6/15/1999	6/12/2001	29.4286	-89.8500	inactive	1	Saline	Plaquemines	*	*	*	*	0
447	6/10/1997	6/13/2001	29.2764	-89.6300	inactive	1	Saline	Plaquemines	*	*	*	*	0
448	5/2/2001	5/2/2001	29.6534	-90.4280	GREG	3	Wetland Forest - Deciduous	Lafourche	*	*	*	*	2
449	6/22/1998	5/2/2001	29.7414	-90.3394	inactive	1	Fresh	St. Charles	*	*	*	*	0
454	4/30/2001	4/30/2001	29.6361	-92.5667	GREG, CORM, WHIB	2	Brackish	Vermilion	*	*	*	*	1
457	5/2/2001	5/2/2001	29.9589	-90.4647	GREG	2	Wetland Forest - Deciduous	St. Charles	*	*	*	*	1
458	6/13/2001	6/13/2001	29.5242	-89.5389	LAGU, TRHE, LBHE, WHIB	2	Saline	Plaquemines	*	*	*	*	3
460	6/3/1994	6/12/2001	29.4019	-91.3719	inactive	1	Fresh	St. Mary	*	*	*	*	0
461	6/12/2001	6/12/2001	29.3944	-91.3767	Colony	3	Fresh	St. Mary	*	*	*	*	11
462	6/12/2001	6/12/2001	29.3908	-91.3833	FOTE, SATE, GBTE	2	Fresh	St. Mary	*	*	*	*	2
463	7/1/1997	6/12/2001	29.5139	-91.4417	inactive	1	Fresh	St. Mary	*	*	*	*	0
464	5/18/1996	6/12/2001	29.5125	-91.4333	inactive	1	Fresh	St. Mary	*	*	*	*	0
465	6/9/1997	6/13/2001	29.8031	-90.5981	inactive	1	Wetland Forest - Deciduous	Lafourche	*	*	*	*	0

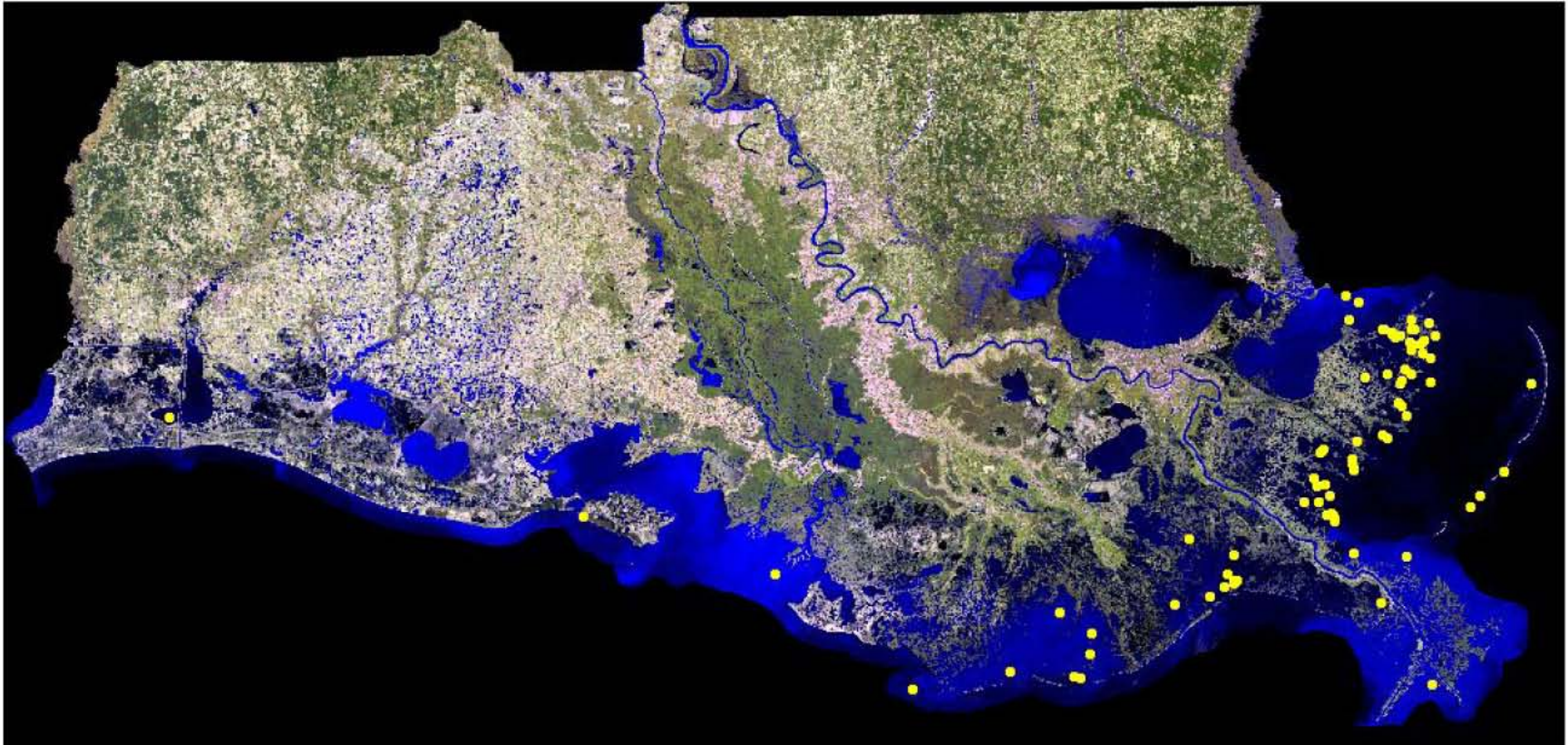
COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
466	6/9/1998	5/2/2001	29.8850	-90.4633	inactive	1	Wetland Forest - Deciduous	St. Charles	*	*	*	*	0
467	6/9/1997	5/2/2001	30.0936	-90.6872	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	0
468	5/4/2001	5/4/2001	30.3495	-90.4341	GBHE, GREG, SNEG	3	Wetland Forest - Deciduous	Tangipahoa	*	*	*	*	2
469	6/18/1998	6/13/2001	29.0167	-89.1933	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
470	6/10/1997	6/13/2001	29.2650	-89.3425	inactive	1	Fresh	Plaquemines	*	*	*	*	0
471	6/13/2001	6/13/2001	29.3969	-89.3022	BRPE, LAGU	2	Intermediate	Plaquemines	*	*	*	*	5
472	4/30/2001	4/30/2001	29.9911	-92.7347	CAEG, DAIB, GREG, LBHE	2	Fresh	Cameron	*	*	*	*	5
473	5/28/1997	4/30/2001	29.8167	-93.0000	inactive	1	Intermediate	Cameron	*	*	*	*	0
475	5/28/1997	4/30/2001	30.5000	-92.9333	inactive	1	Upland Forest - Mixed	Allen	*	*	*	*	0
476	6/15/1999	6/13/2001	29.5692	-89.5867	inactive	1	Saline	Plaquemines	*	*	*	*	0
477	6/12/2001	6/12/2001	29.3472	-89.8669	no species given	2	Saline	Plaquemines	*	*	*	*	11
478	6/12/2001	6/12/2001	29.3431	-89.8706	CAEG, LAGU, WHIB	2	Saline	Plaquemines	*	*	*	*	4
479	6/12/2001	6/12/2001	29.3333	-89.8714	LAGU	2	Saline	Plaquemines	*	*	*	*	1
480	6/10/1997	6/12/2001	29.0556	-90.8036	inactive	1	Saline	Terrebonne	*	*	*	*	0
482	6/15/1995	4/30/2001	29.9500	-92.8833	inactive	1	Fresh	Cameron	*	*	*	*	0
483	4/30/2001	4/30/2001	30.0000	-92.8250	WHIB	2	Fresh	Cameron	*	*	*	*	2
484	6/4/1997	5/2/2001	30.4967	-91.7017	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
485	5/27/1997	5/2/2001	30.3603	-91.4619	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
486	6/4/1998	5/2/2001	29.5444	-91.1689	inactive	1	Wetland Forest - Deciduous	Terrebonne	*	*	*	*	0
487	6/4/1998	5/2/2001	29.5131	-91.1406	inactive	1	Fresh	Terrebonne	*	*	*	*	0
488	5/27/1997	5/2/2001	30.3275	-91.4656	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
489	6/11/1999	5/10/2001	29.5106	-90.7942	inactive	1	Wetland Scrub/Shrub - Deciduous	Terrebonne	*	*	*	*	0
490	6/8/1999	5/4/2001	30.4289	-91.6247	inactive	1	Agriculture - Cropland - Grassland	Iberville	*	*	*	*	0
491	6/4/1997	5/2/2001	30.4650	-91.6575	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
492	6/11/1999	5/2/2001	29.4972	-90.6678	inactive	1	Wetland Forest - Deciduous	Terrebonne	*	*	*	*	0
493	1992	5/2/2001	29.4264	-91.3117	inactive	1	Fresh	St. Mary	*	*	*	*	0
494	6/8/1999	6/12/2001	29.4478	-91.2642	inactive	1	Fresh	St. Mary	*	*	*	*	0
495	4/24/1998	4/30/2001	30.4064	-92.3289	inactive	1	Agriculture - Cropland - Grassland	Acadia	*	*	*	*	0
496	5/2/2001	5/2/2001	29.9833	-91.5667	GBHE, GREG	2	Wetland Forest - Deciduous	Iberia	*	*	*	*	2
497	5/2/2001	5/2/2001	29.7178	-91.5922	LBHE, SNEG	2	Fresh	St. Mary	*	*	*	*	2
498	6/8/1999	5/2/2001	29.6631	-91.4606	inactive	1	Wetland Forest - Deciduous	St. Mary	*	*	*	*	0
499	6/8/1999	5/2/2001	29.5458	-91.1539	inactive	1	Wetland Scrub- Shrub - Evergreen	Terrebonne	*	*	*	*	0

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									76	78	83	90	2001
500	5/2/2001	5/2/2001	30.0250	-91.2483	GBHE, GREG	2	Wetland Forest - Deciduous	Iberia	*	*	*	*	2
501	6/14/1999	5/2/2001	29.9592	-90.5364	inactive	1	Fresh	St. John the Baptist	*	*	*	*	0
502	6/14/1999	5/2/2001	29.9622	-90.9106	inactive	1	Wetland Forest - Deciduous	St. James	*	*	*	*	0
503	5/2/2001	5/2/2001	30.2278	-91.6278	CAEG, SNEG, LBHE	2	Wetland Scrub/Shrub - Deciduous	St. Martin	*	*	*	*	2
504	6/9/1998	6/9/1998	30.4803	-91.6656	inactive	1	Wetland Forest - Deciduous	Iberville	*	*	*	*	0
505	6/13/2001	6/13/2001	30.0317	-89.3153	WHIB, CATE, LAGU, BCNH	2	Saline	St. Bernard	*	*	*	*	3
506	6/13/2001	6/13/2001	30.0364	-89.3167	WHIB, LAGU	2	Saline	St. Bernard	*	*	*	*	3
507	6/13/2001	6/13/2001	30.0431	-89.3211	BCNH, LAGU, CATE, WHIB	2	Saline	St. Bernard	*	*	*	*	2
508	6/13/2001	6/13/2001	30.0553	-89.3486	LAGU	2	Saline	St. Bernard	*	*	*	*	1
509	6/13/2001	6/13/2001	30.0533	-89.3550	SATE	2	Saline	St. Bernard	*	*	*	*	1
510	6/17/1998	5/4/2001	30.3928	-90.4472	inactive	1	Wetland Forest - Deciduous	Tangipahoa	*	*	*	*	0
511	6/8/1999	5/2/2001	30.2900	-91.4217	inactive	1	Wetland Scrub/Shrub - Deciduous	Iberville	*	*	*	*	0
512	5/2/2001	5/2/2001	30.3522	-91.7039	LBHE, TRHE, GREG, CAEG, SNEG	2	Wetland Forest - Deciduous	St. Martin	*	*	*	*	1
513	5/2/2001	5/2/2001	30.2069	-91.9594	CAEG, LBHE, SNEG	2	Wetland Forest - Deciduous	St. Martin	*	*	*	*	3
514	6/13/2001	6/13/2001	29.6569	-89.4650	FOTE	2	Saline	St. Bernard	*	*	*	*	2
515	5/2/2001	5/2/2001	29.7619	-90.3231	DAIB, LBHE, TRHE, SNEG	2	Fresh	St. Charles	*	*	*	*	2
516	5/2/2001	5/2/2001	29.9297	-90.2775	CAEG, GREG, LBHE, TRHE, SNEG	2	Fresh	St. Charles	*	*	*	*	2
517	6/22/1998	6/12/2001	29.1933	-90.2986	inactive	1	Saline	Lafourche	*	*	*	*	0
518	6/13/2001	6/13/2001	29.9169	-89.4189	FOTE	2	Saline	St. Bernard	*	*	*	*	1
519	6/13/2001	6/13/2001	29.8978	-89.3003	SNEG, TRHE, LAGU	2	Saline	St. Bernard	*	*	*	*	4
520	5/27/1997	6/13/2001	29.8933	-89.3114	inactive	1	Saline	St. Bernard	*	*	*	*	0
521	5/20/1997	6/12/2001	29.0577	-90.3316	inactive	1	Saline	Lafourche	*	*	*	*	0
524	6/18/1998	6/13/2001	29.3828	-89.3111	inactive	1	Saline	Plaquemines	*	*	*	*	0
525	6/13/2001	6/13/2001	29.9058	-89.2950	LAGU, LBHE, TRHE, SNEG, BLSK	2	Saline	St. Bernard	*	*	*	*	2
530	6/8/1999	5/2/2001	30.4325	-91.6450	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
531	5/2/2001	5/2/2001	30.3372	-91.6003	LBHE, GREG, SNEG	2	Wetland Forest - Deciduous	Iberville	*	*	*	*	2
532	5/2/2001	5/2/2001	30.3406	-91.5961	LBHE, CAEG	2	Wetland Forest - Deciduous	Iberville	*	*	*	*	1
533	5/2/2001	5/2/2001	30.3147	-91.4553	GBHE, GREG	2	Wetland Forest - Deciduous	Iberville	*	*	*	*	1
534	5/2/2001	5/2/2001	29.8767	-91.1261	GBHE, GREG	2	Wetland Forest - Deciduous	Assumption	*	*	*	*	1
535	5/2/2001	5/2/2001	29.5253	-91.1242	DAIB, LBHE, WHIB	2	Fresh	Terrebonne	*	*	*	*	4
536	5/2/2001	5/2/2001	29.9969	-90.3778	ANHI, GBHE, GREG	2	Wetland Forest - Deciduous	St. Charles	*	*	*	*	2
537	5/2/2001	5/2/2001	29.7831	-90.4903	CAEG, LBHE	2	Fresh	Lafourche	*	*	*	*	4
538	6/14/1999	5/2/2001	29.7739	-90.4994	inactive	1	Fresh	Lafourche	*	*	*	*	0

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
539	6/14/1999	5/2/2001	30.1550	-90.7731	inactive	1	Wetland Forest - Deciduous	Ascension	*	*	*	*	0
540	5/4/2001	5/4/2001	29.2661	-89.2592	GREG, SNEG	2	Intermediate	Plaquemines	*	*	*	*	1
541	6/13/2001	6/13/2001	30.0517	-89.2617	WHIB, LAGU	2	Saline	St. Bernard	*	*	*	*	2
542	6/13/2001	6/13/2001	30.0356	-89.2969	LAGU, CATE	2	Saline	St. Bernard	*	*	*	*	2
543	6/18/1999	6/10/2001	29.7719	-88.8642	inactive	1	Saline	St. Bernard	*	*	*	*	0
545	6/15/1999	6/13/2001	29.3753	-89.3125	inactive	1	Intermediate	Plaquemines	*	*	*	*	0
546	6/15/1999	6/13/2001	29.3844	-89.3097	inactive	1	Saline	Plaquemines	*	*	*	*	0
547	6/8/1999	5/2/2001	30.2619	-91.6608	inactive	1	Wetland Forest - Deciduous	St. Martin	*	*	*	*	0
548	6/12/2001	6/12/2001	29.3449	-89.8600	GREG, LAGU, ROSP, WHIB	3	Saline	Plaquemines	*	*	*	*	4
549	5/2/2001	5/2/2001	29.4908	-91.0737	BCNH, DAIB, GREG, LBHE, TRHE	3	Wetland Scrub/Shrub - Mixed	Terrebonne	*	*	*	*	3
550	6/15/1999	6/13/2001	29.4025	-89.2978	inactive	1	Saline	Plaquemines	*	*	*	*	0
551	5/16/1999	6/13/2001	30.1178	-89.1828	inactive	1	Saline	St. Bernard	*	*	*	*	0
552	7/9/1997	6/10/2001	29.8342	-88.9203	inactive	1	Saline	St. Bernard	*	*	*	*	0
553	5/20/1997	6/12/2001	29.4239	-89.8444	inactive	1	Saline	Plaquemines	*	*	*	*	0
554	6/19/1997	6/12/2001	29.2228	-91.1919	inactive	1	Saline	Terrebonne	*	*	*	*	0
555	6/19/1997	6/12/2001	29.2225	-91.1689	inactive	1	Saline	Terrebonne	*	*	*	*	0
556	6/14/1997	6/12/2001	29.0439	-90.8231	inactive	1	Saline	Terrebonne	*	*	*	*	0
557	5/21/1997	6/12/2001	29.2156	-90.4333	inactive	1	Saline	Terrebonne	*	*	*	*	0
558	5/21/1997	6/12/2001	29.2483	-90.4444	inactive	1	Saline	Terrebonne	*	*	*	*	0
559	6/13/2001	6/13/2001	29.0267	-89.2292	LAGU, ROYT, CATE	2	Fresh	Plaquemines	*	*	*	*	3
560	4/12/2000	6/13/2001	29.2264	-89.3872	inactive	1	Fresh	Plaquemines	*	*	*	*	0
561	5/4/2000	6/12/2001	29.0797	-90.2736	inactive	1	Saline	Lafourche	*	*	*	*	0
562	5/4/2001	5/4/2001	30.3631	-90.3584	WHIB	4	Wetland Forest - Deciduous	Tangipahoa	*	*	*	*	5
563	4/30/2001	4/30/2001	30.0096	-93.4837	LBHE, BCNH, GREG, CAEG, ROSP, CORM	4	Intermediate	Cameron	*	*	*	*	4
564	4/30/2001	4/30/2001	30.4254	-92.9653	CAEG, GREG, LBHE, SNEG, ROSP	4	Upland Forest - Evergreen	Jefferson Davis	*	*	*	*	2
565	5/4/2001	5/4/2001	29.2707	-89.2443	LBHE, SNEG	4	Intermediate	Plaquemines	*	*	*	*	2
566	5/4/2001	5/4/2001	29.2938	-89.1796	GREG, SNEG	4	Fresh	Plaquemines	*	*	*	*	1
567	5/4/2001	5/4/2001	29.2951	-89.1878	SNEG	4	Fresh	Plaquemines	*	*	*	*	1
568	4/30/2001	4/30/2001	30.1292	-93.3308	GREG, ROSP, BCNH	4	Wetland Scrub/Shrub - Mixed	Calcasieu	*	*	*	*	1
569	5/4/2001	5/4/2001	30.0378	-89.8739	ANHI, GBHE, GREG, SNEG	4	Wetland Forest - Deciduous	Orleans	*	*	*	*	3
570	6/12/2001	6/12/2001	29.1024	-90.2151	LBHE, TRHE, BCNH, GREG, SNEG	4	Saline	Lafourche	*	*	*	*	3
571	6/13/2001	6/13/2001	29.2089	-89.3738	GREG	4	Fresh	Plaquemines	*	*	*	*	1
572	6/13/2001	6/13/2001	29.0539	-89.2864	SNEG, GREG	4	Intermediate	Plaquemines	*	*	*	*	1
573	6/13/2001	6/13/2001	28.9592	-89.3757	SNEG, GNHE, DAIB	4	Upland Scrub/Shrub - Mixed	Plaquemines	*	*	*	*	2
574	6/13/2001	6/13/2001	29.1994	-89.1881	GREG	4	Fresh	Plaquemines	*	*	*	*	1
575	6/13/2001	6/13/2001	29.5639	-89.6297	GREG, LAGU	4	Saline	Plaquemines	*	*	*	*	2
576	6/13/2001	6/13/2001	30.0391	-89.3222	LAGU	4	Saline	St. Bernard	*	*	*	*	1
577	6/13/2001	6/13/2001	30.0787	-89.2600	SNEG, LAGU	4	Saline	St. Bernard	*	*	*	*	1
578	6/13/2001	6/13/2001	30.0061	-89.2554	BLSK, LAGU	4	Saline	St. Bernard	*	*	*	*	2
579	6/13/2001	6/13/2001	29.6093	-89.5858	BLSK, LAGU, GREG, FOTE	4	Saline	Plaquemines	*	*	*	*	2

COLONY NUMBER	LASTOBS	LAST SVY	LATDEC	LONGDEC	SPECIES PRESENT	STATUS CODE	HABITAT	PARISH	HISTORY				
									76	78	83	90	2001
580	6/13/2001	6/13/2001	29.5809	-89.5479	LAGU, BLSK	4	Saline	Plaquemines	*	*	*	*	2
581	5/2/2001	5/2/2001	29.6338	-90.5712	SNEG	4	Fresh	Lafourche	*	*	*	*	5
582	5/2/2001	5/2/2001	29.4337	-90.6547	GREG, SNEG	4	Wetland Scrub- Shrub - Evergreen	Terrebonne	*	*	*	*	1
583	5/2/2001	5/2/2001	29.4329	-90.6432	SNEG	4	Intermediate	Terrebonne	*	*	*	*	1
584	5/2/2001	5/2/2001	29.4367	-90.6353	GREG, LBHE, TRHE, SNEG	4	Intermediate	Terrebonne	*	*	*	*	2
585	5/2/2001	5/2/2001	29.4364	-90.6412	BCNH, LBHE, GREG, SNEG	4	Intermediate	Terrebonne	*	*	*	*	2
587	6/10/2001	6/10/2001	29.9680	-92.9215	WHIB	4	Fresh	Cameron	*	*	*	*	1
588	6/10/2001	6/10/2001	30.0833	-92.8333	GNHE	4	Wetland Forest - Deciduous	Cameron	*	*	*	*	1
589	6/10/2001	6/10/2001	30.3833	-92.8500	GREG	4	Upland Forest - Deciduous	Jefferson Davis	*	*	*	*	1
590	6/10/2001	6/10/2001	29.9717	-93.0863	GREG, CORM, GBHE	4	Fresh	Cameron	*	*	*	*	1
591	5/10/2001	5/10/2001	29.9783	-93.0670	WHIB, DAIB	4	Fresh	Cameron	*	*	*	*	3
592	5/10/2001	5/10/2001	29.9718	-93.0715	GREG, CAEG, GBHE, LBHE, TRHE, GNHE, BCNH, SNEG, ROSP, ANHI, WHIB, CORM	4	Fresh	Cameron	*	*	*	*	4
593	5/10/2001	5/10/2001	29.9627	-93.0763	WHIB, DAIB	4	Fresh	Cameron	*	*	*	*	3
594	5/10/2001	5/10/2001	29.9690	-93.0610	LBHE, GREG, CAEG, ROSP, ANHI, CORM	4	Fresh	Cameron	*	*	*	*	1
595	5/10/2001	5/10/2001	29.8912	-93.0863	GREG, SNEG, WHIB	4	Fresh	Cameron	*	*	*	*	2
596	5/10/2001	5/10/2001	29.9228	-93.5402	CORM, SNEG, CAEG	4	Fresh	Cameron	*	*	*	*	2
597	5/10/2001	5/10/2001	29.9915	-93.3378	GREG, SNEG, WHIB, DAIB	4	Upland Scrub/Shrub - Mixed	Cameron	*	*	*	*	11

Seabird Locations



F-1



● Locations of colonies containing seabirds:
ROYT, FOTE, LETE, SATE, CATE,
GBTE, LAGU, HERG, BLSK
(see Appendix A for species abbreviations).

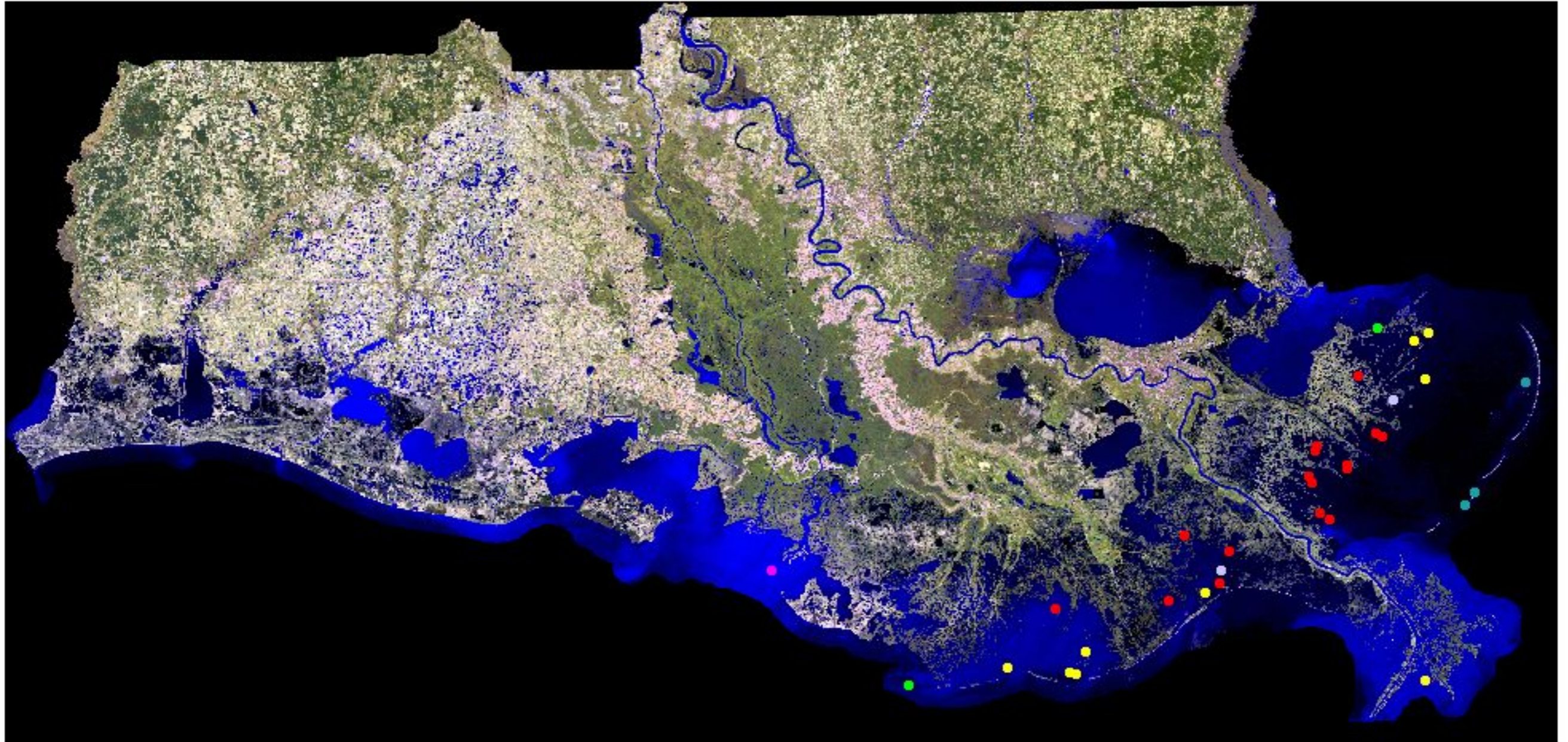
90

0

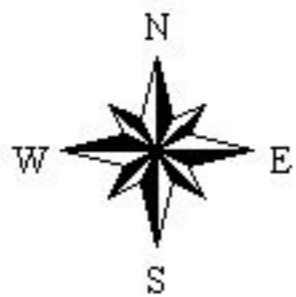
90 Miles



Royal Tern, Forster's Tern and Sandwich Tern Locations



- Forster's Tern locations
- Royal Tern locations
- Sandwich Tern locations
- Royal Tern and Forster's Tern locations
- Royal Tern and Sandwich Tern locations
- Sandwich Tern and Forster's Tern locations



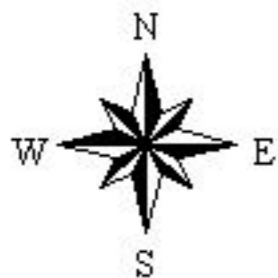
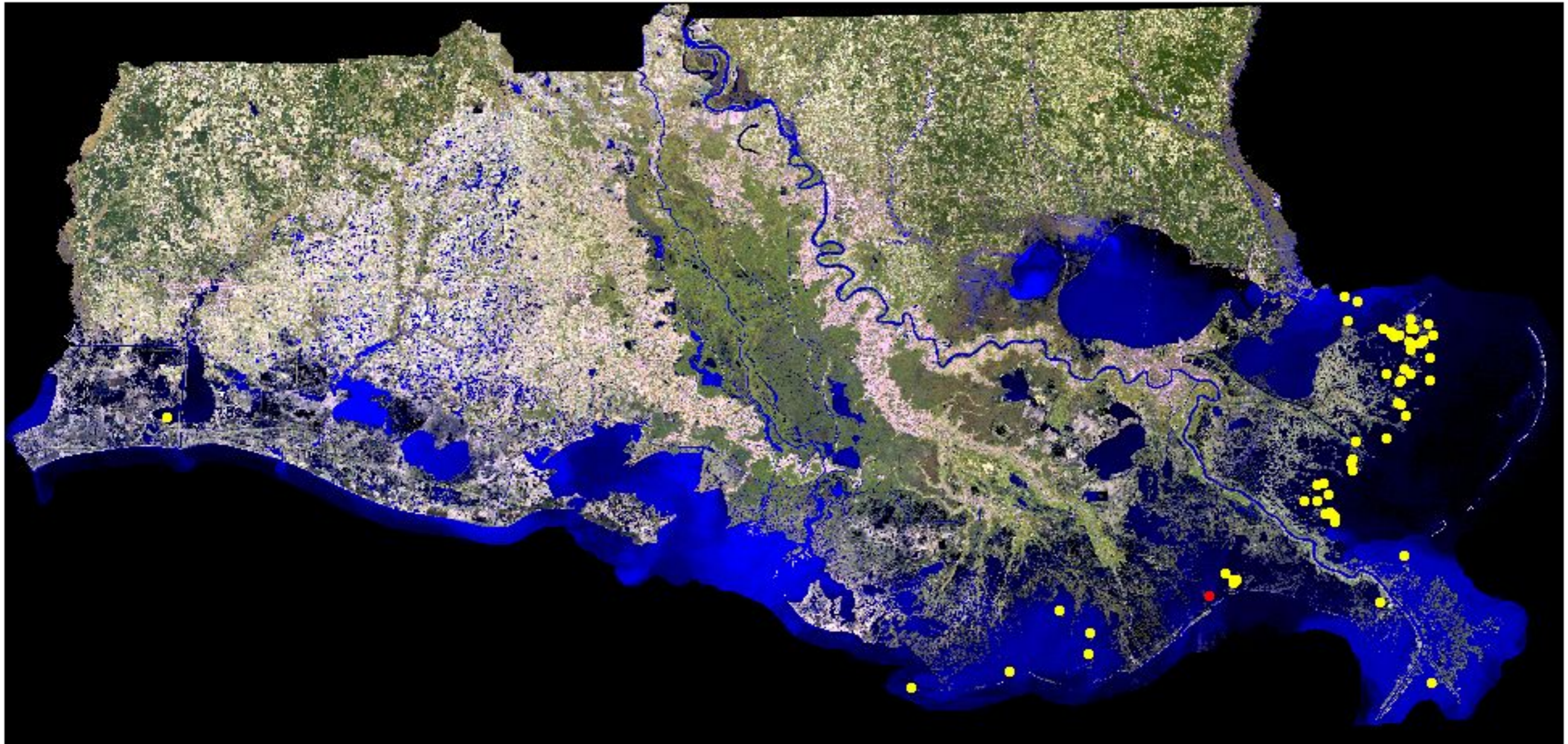
90

0

90 Miles



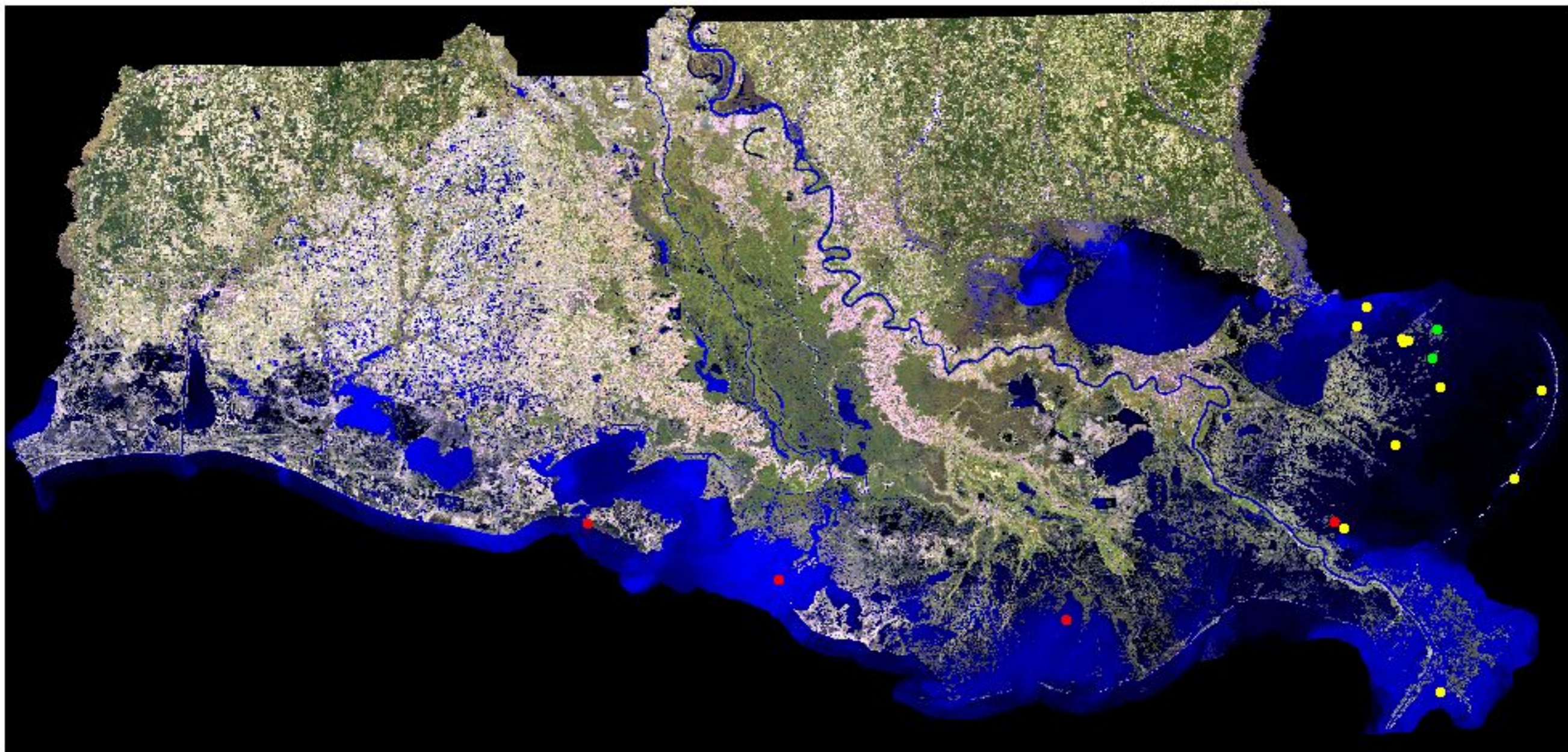
Laughing Gull and Herring Gull Locations



- Herring Gull and Laughing Gull locations
- Laughing Gull locations



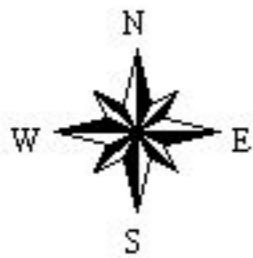
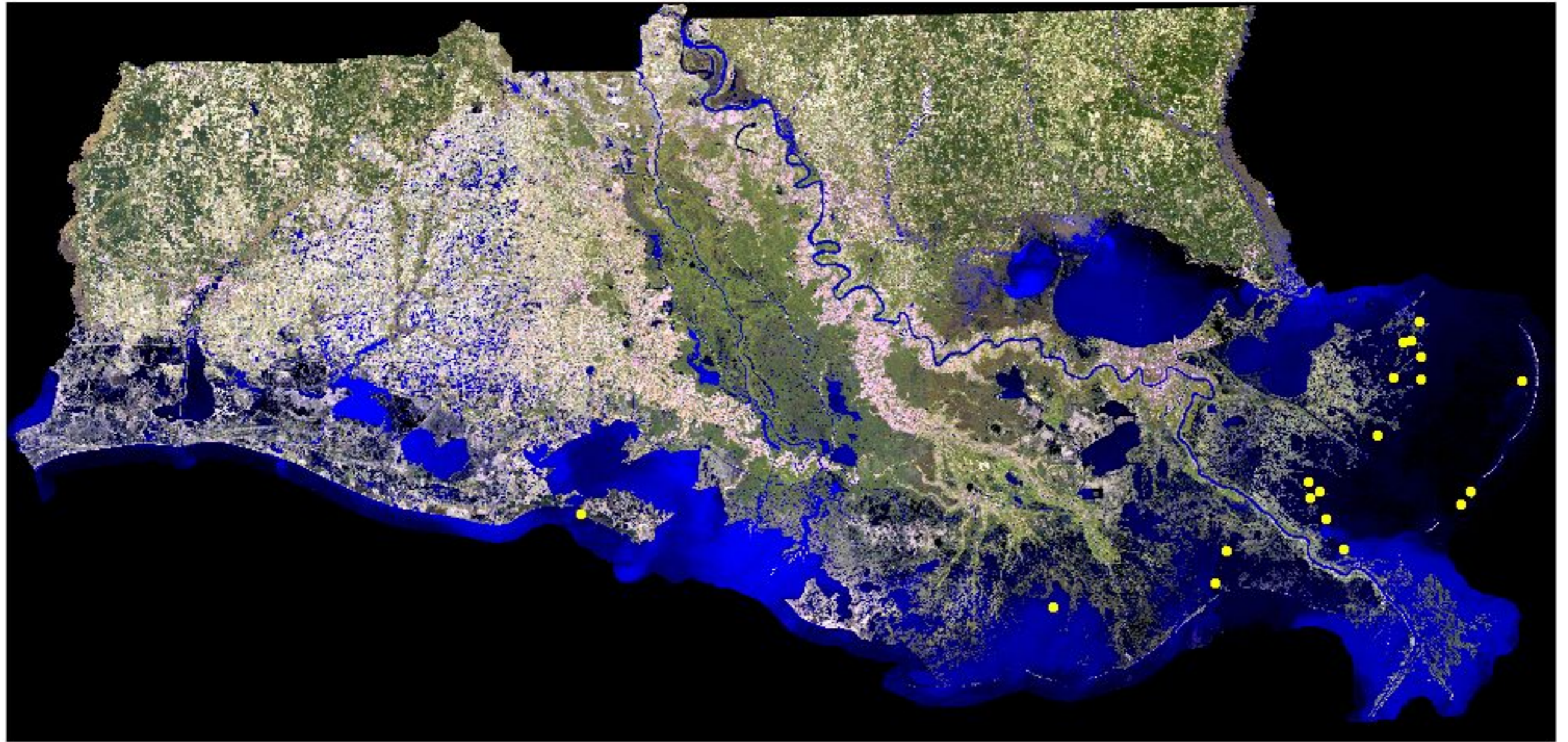
Caspian Tern, Gull-billed Tern, and Least Tern Locations



- Caspian Tern locations
- Gull-billed Tern locations
- Least Tern locations

90 0 90 Miles

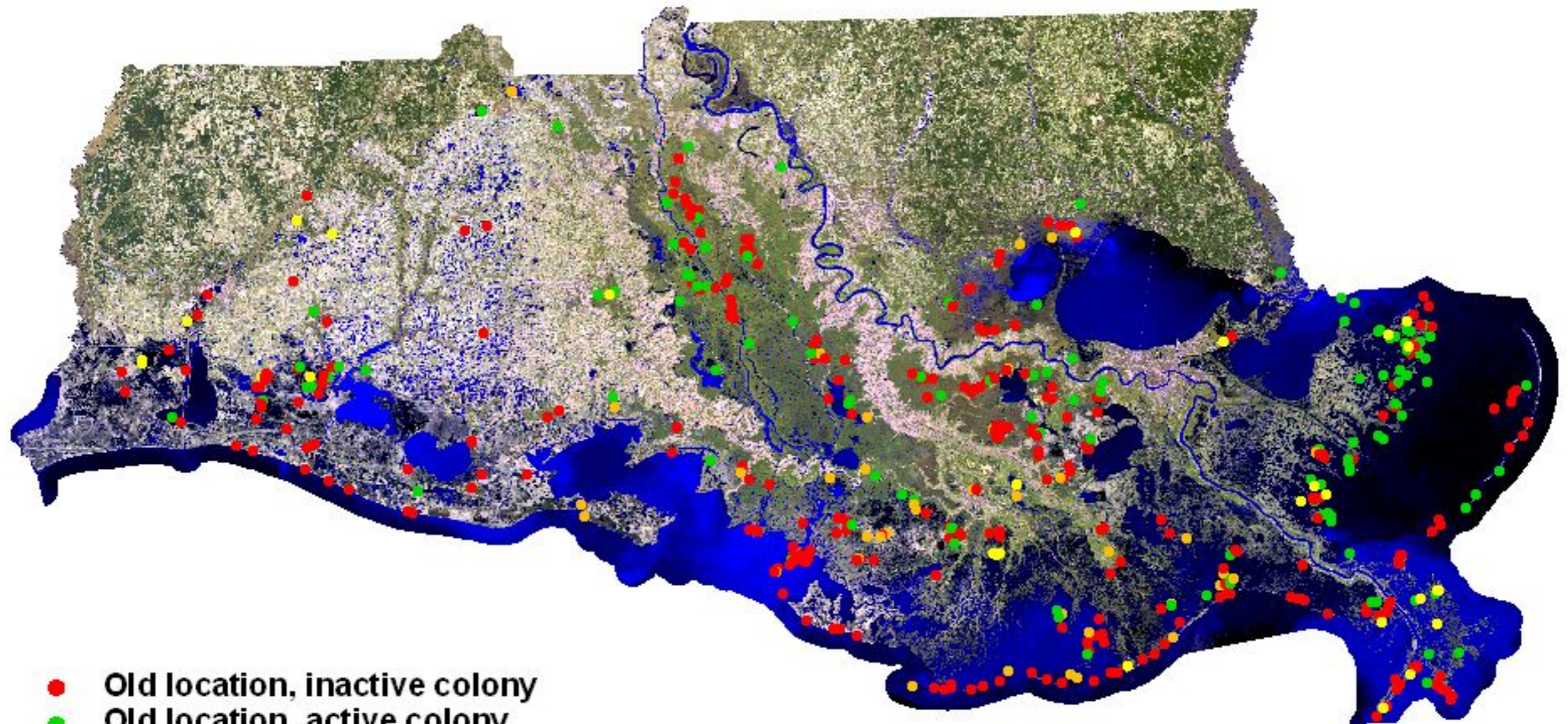
Black Skimmer Locations



● Black Skimmer locations



2001 Colony Location Status

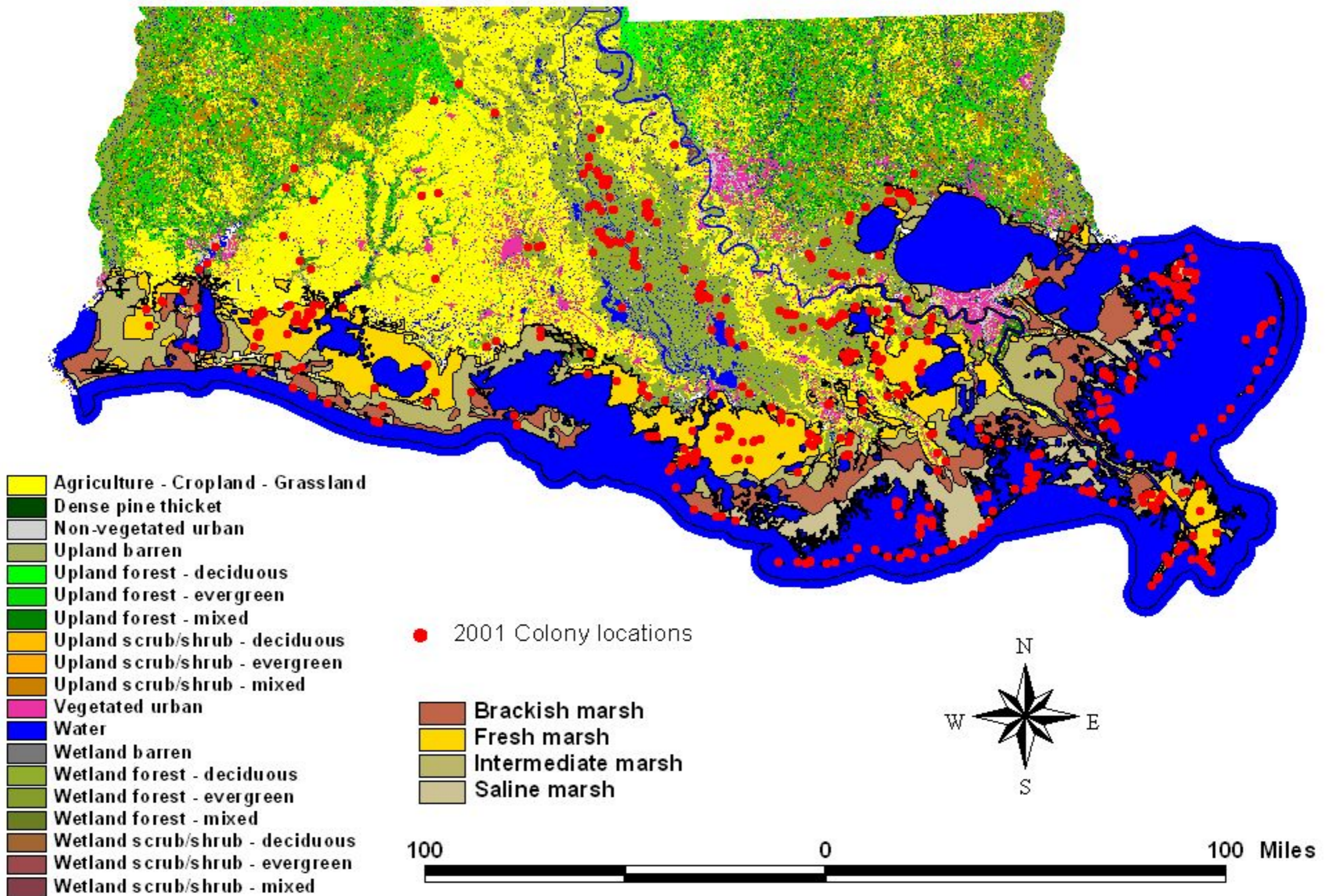


- Old location, inactive colony
- Old location, active colony
- New location, active colony
- New colony, new location

90 0 90 Miles

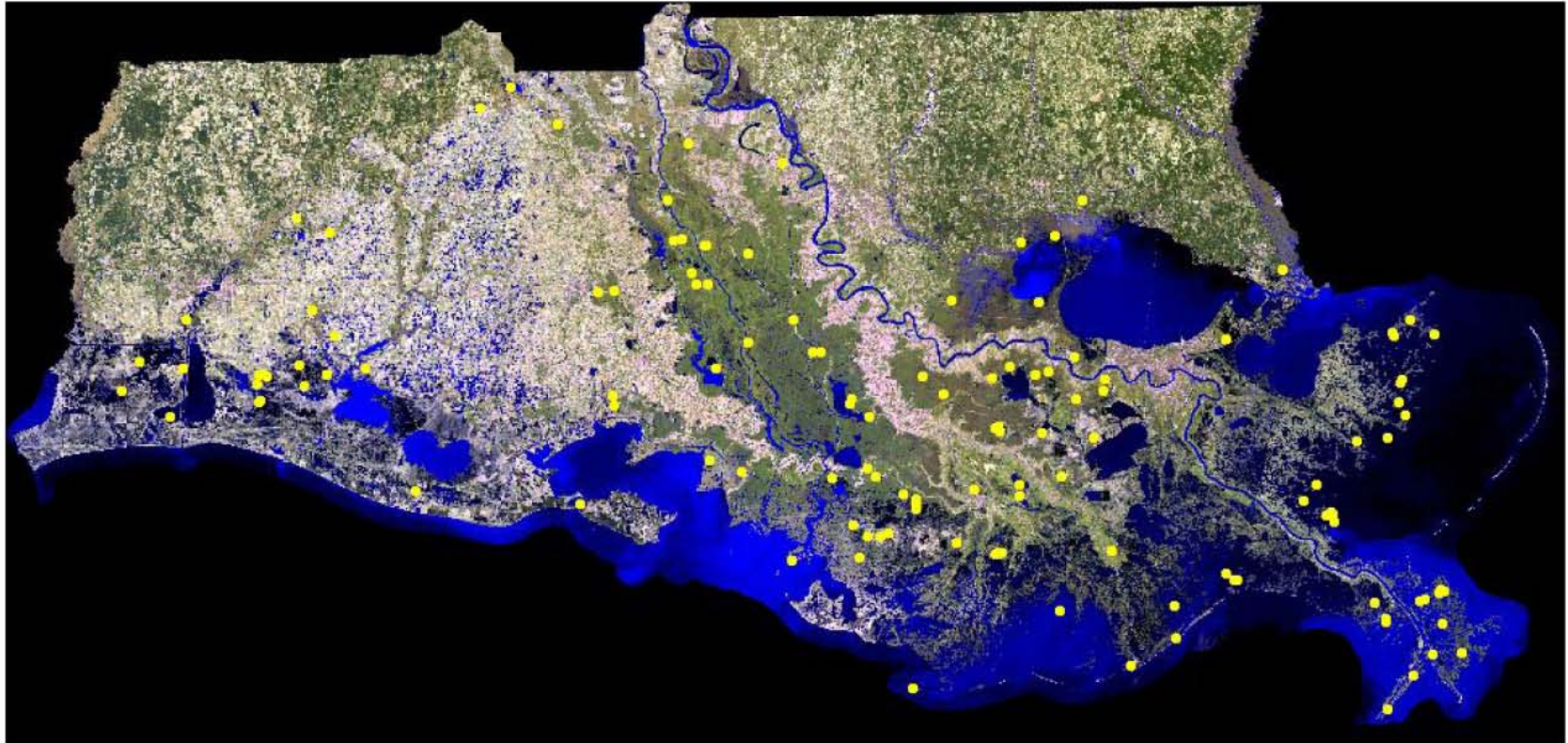


2001 Colony Locations



Heron and Egret Locations

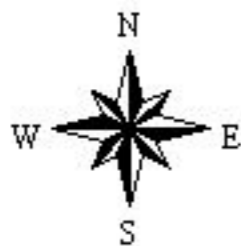
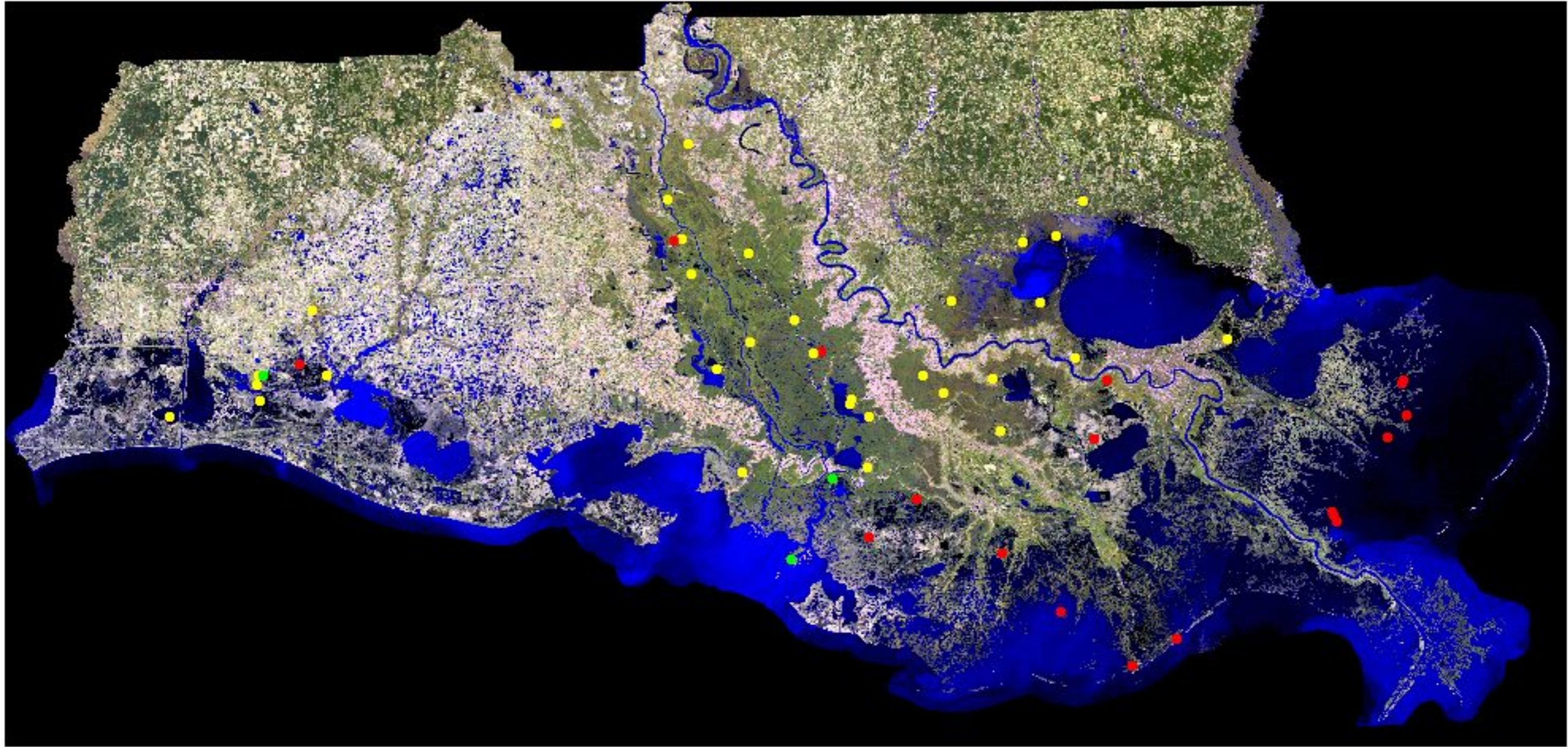
D-1



● Locations of colonies containing herons and egrets:
GBHE, LBHE, TRHE, GNHE, BCNH, YCNH,
GREG, CAEG, SNEG
(see Appendix A for species abbreviations)



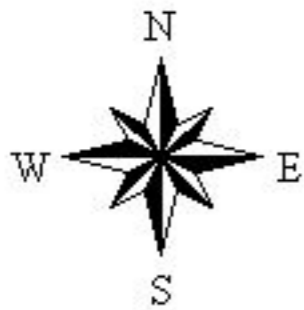
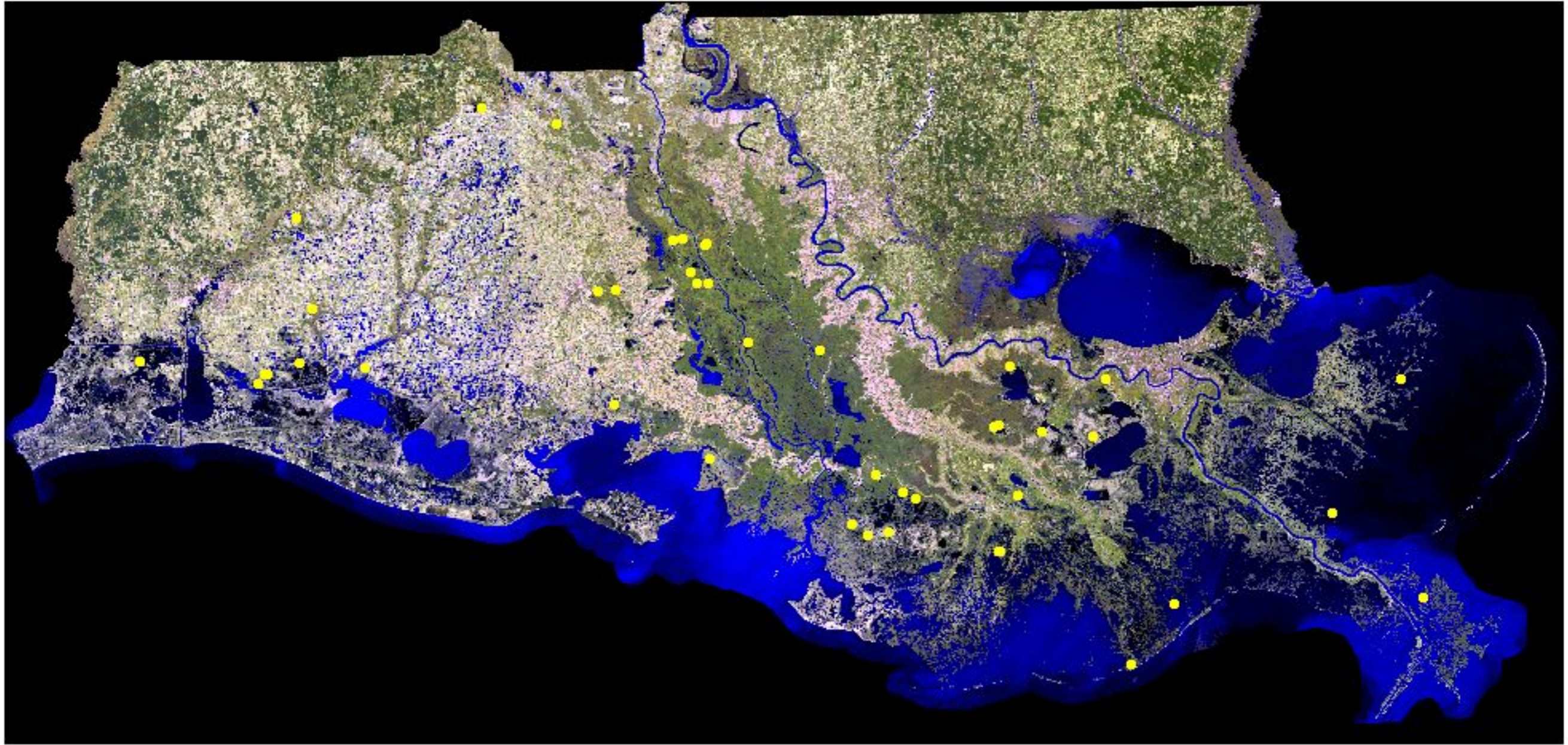
Great Blue Heron and Tricolored Heron Locations



- Great Blue Heron locations
- Tricolored Heron locations
- Great Blue Heron and Tricolored Heron locations



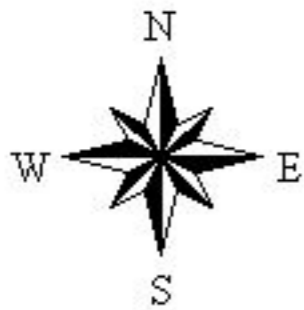
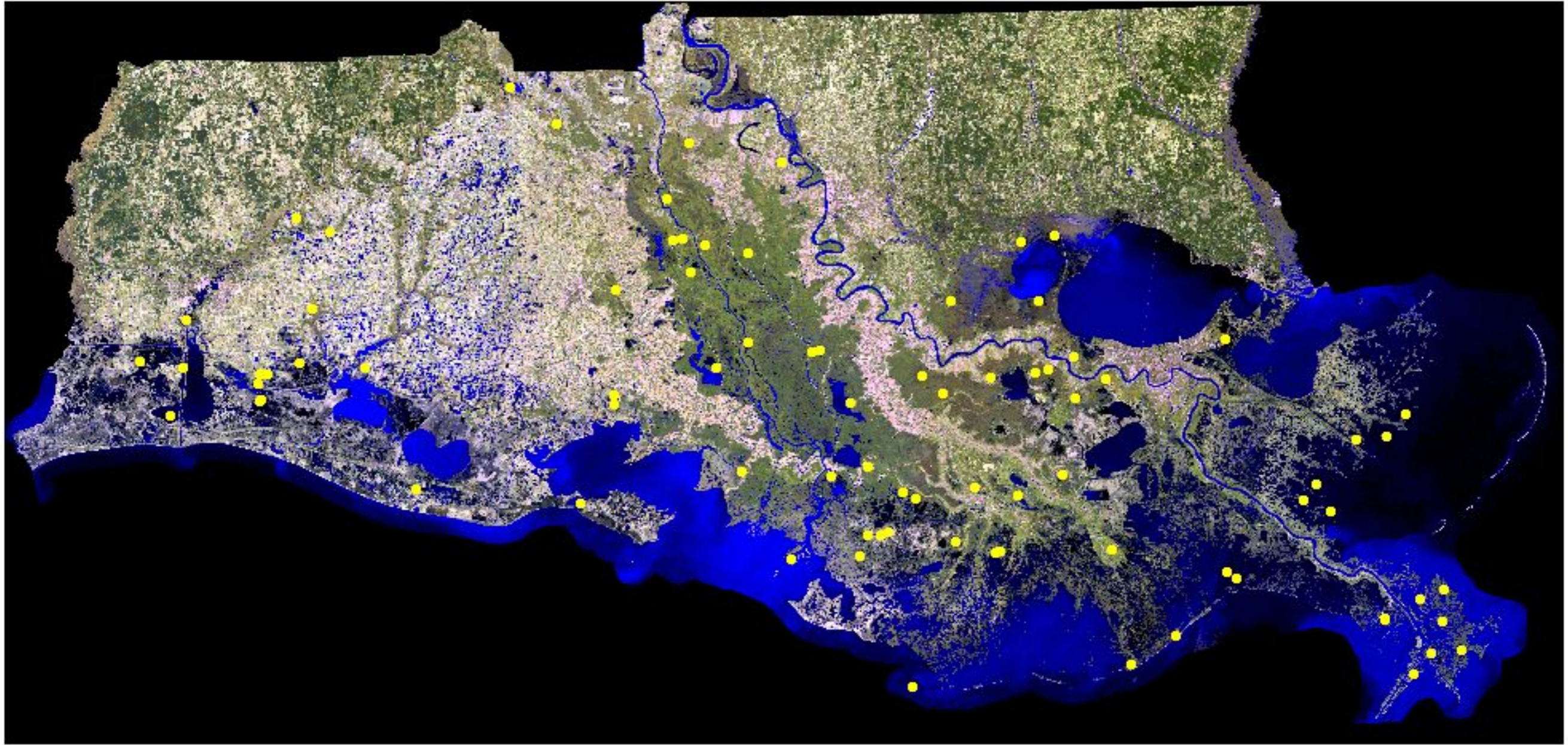
Little Blue Heron Locations



● Little Blue Heron locations



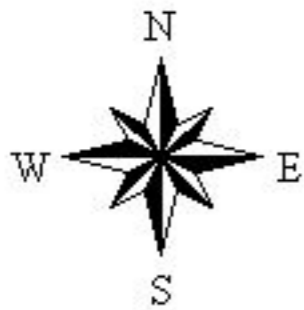
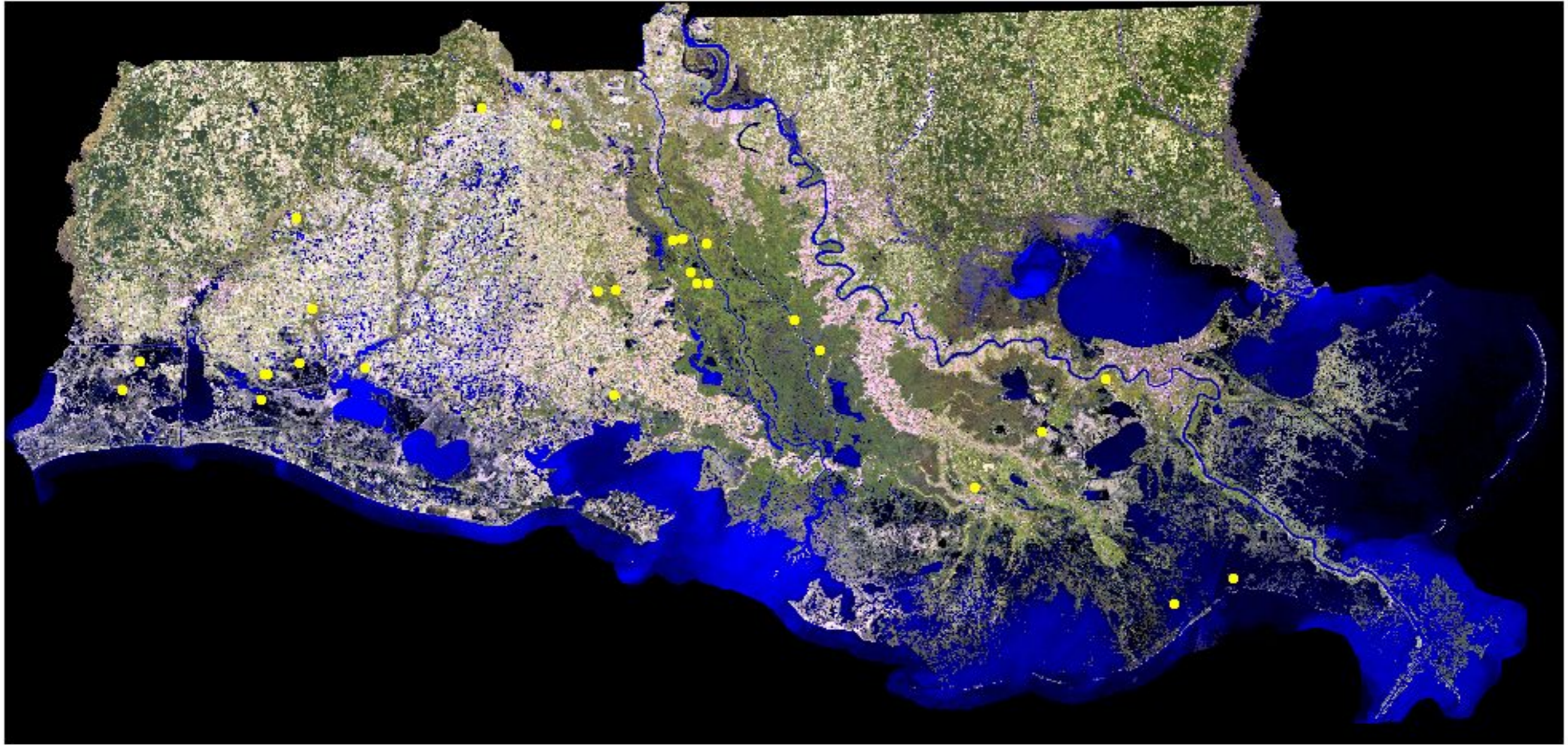
Great Egret Locations



● Great Egret locations



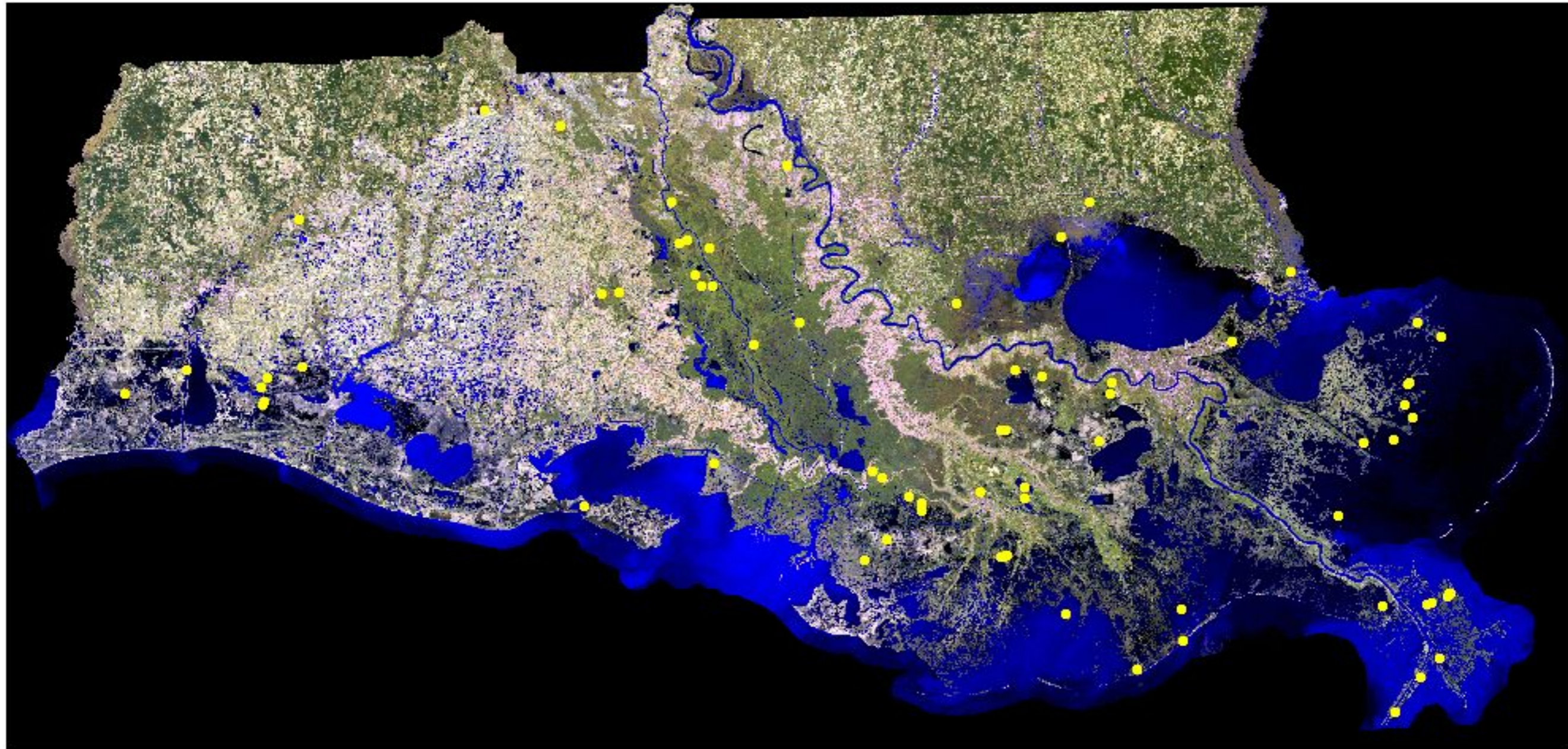
Cattle Egret Locations



● Cattle Egret locations



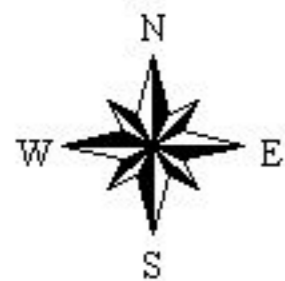
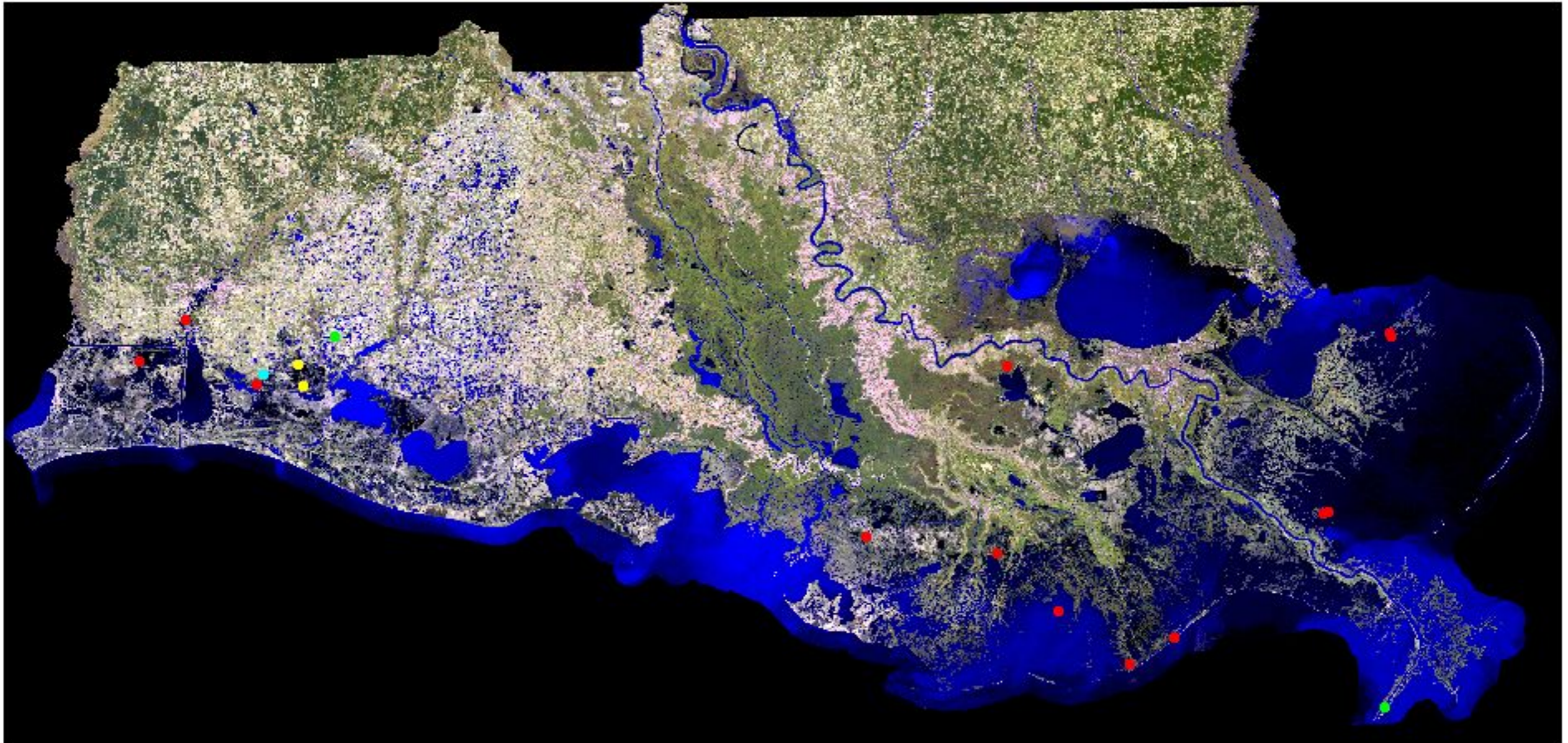
Snowy Egret Locations



● Snowy Egret locations



Green Heron, Black-crowned Night-Heron and Yellow-crowned Night-Heron

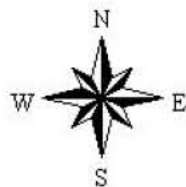
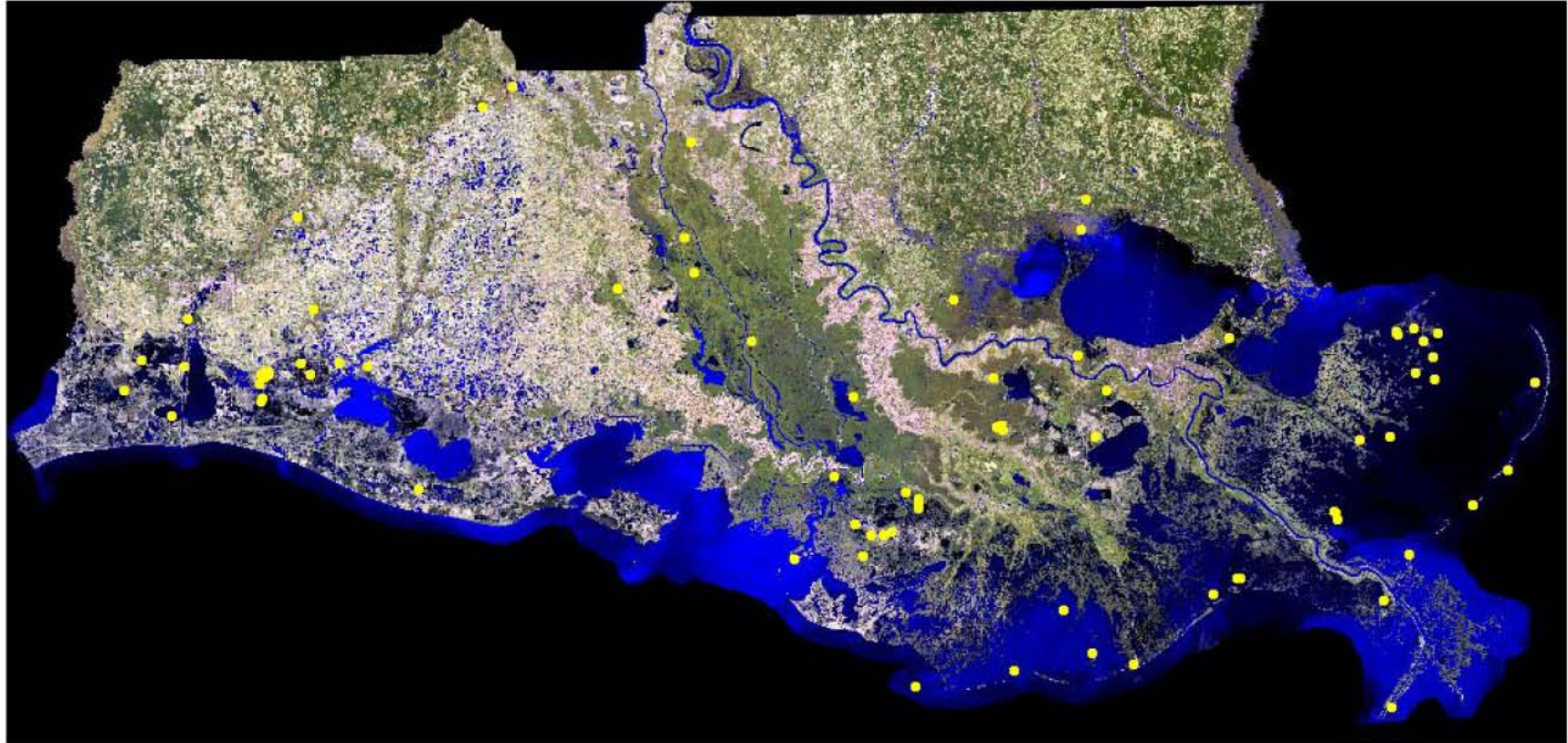


- Black-crowned Night-Heron locations
- Green Heron locations
- Yellow-crowned Night-Heron locations
- Green Heron and Black-crowned Night-Heron locations



Miscellaneous Large Bird Locations

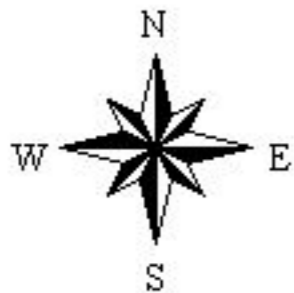
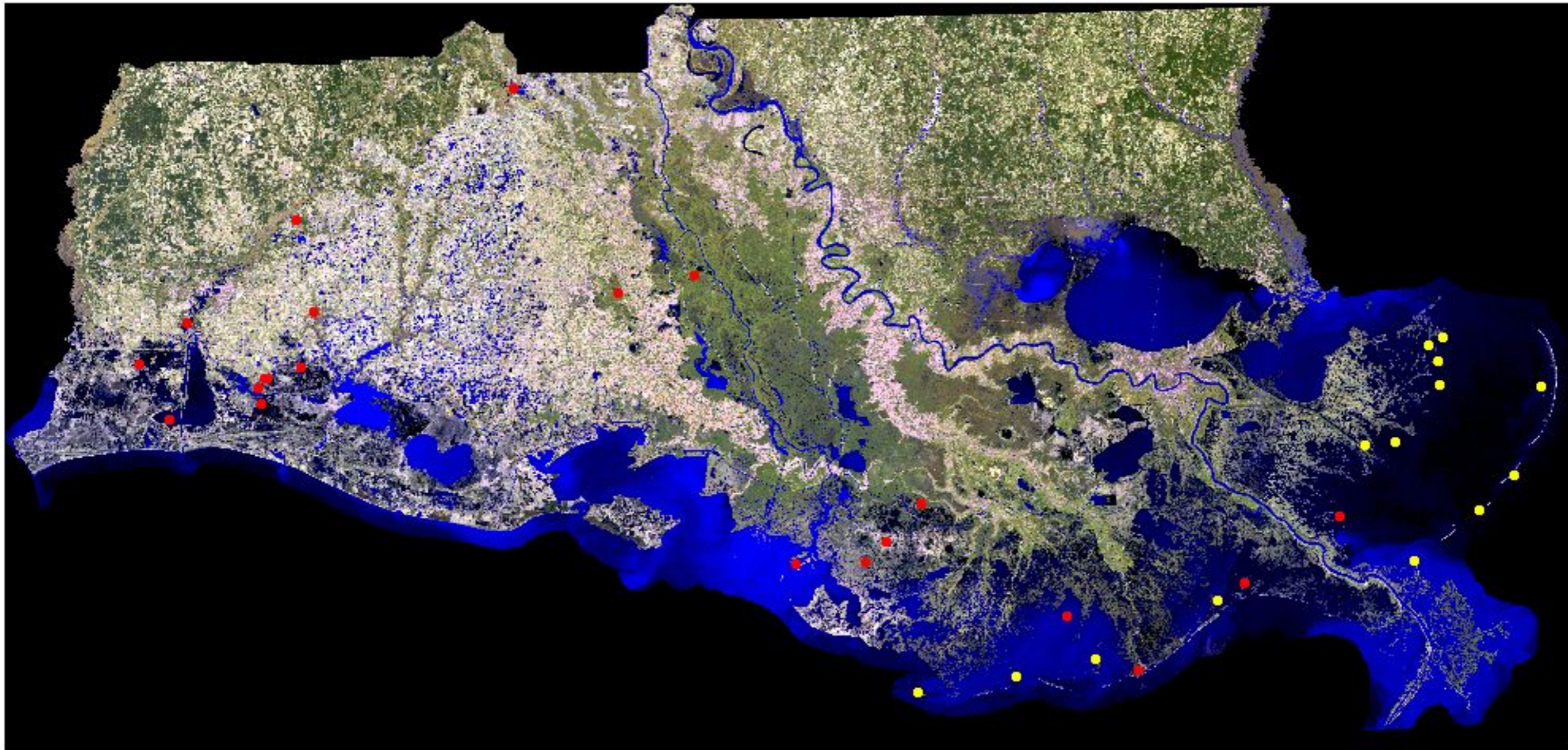
E-1



● Locations containing miscellaneous large birds
BRPE, ROSE, ANHI, WHIB, DAIB, CORM
(see Appendix A for species abbreviations)



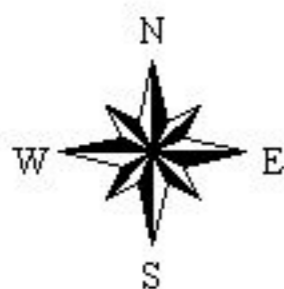
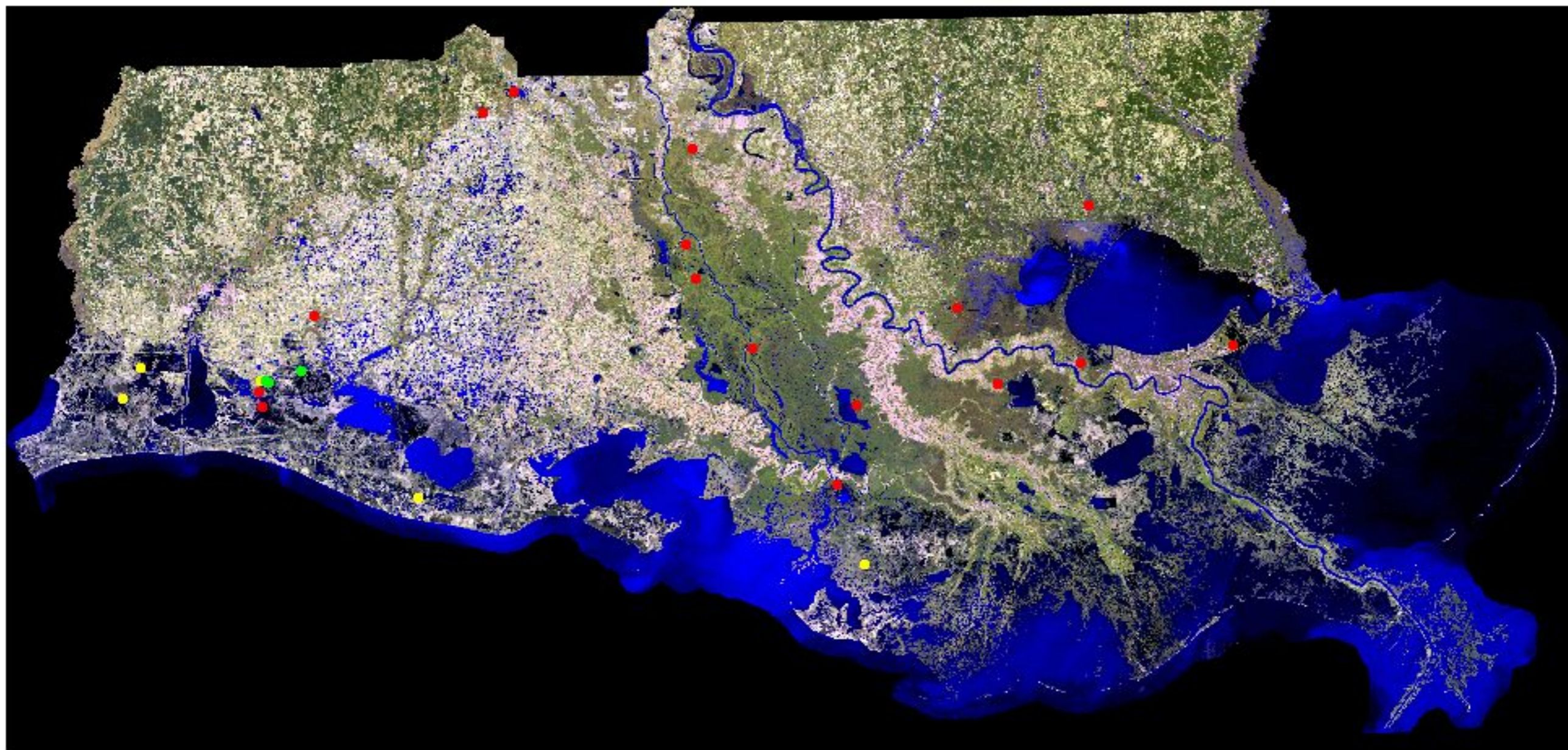
Brown Pelican and Roseate Spoonbill Locations



- **Brown Pelican locations**
- **Roseate Spoonbill locations**



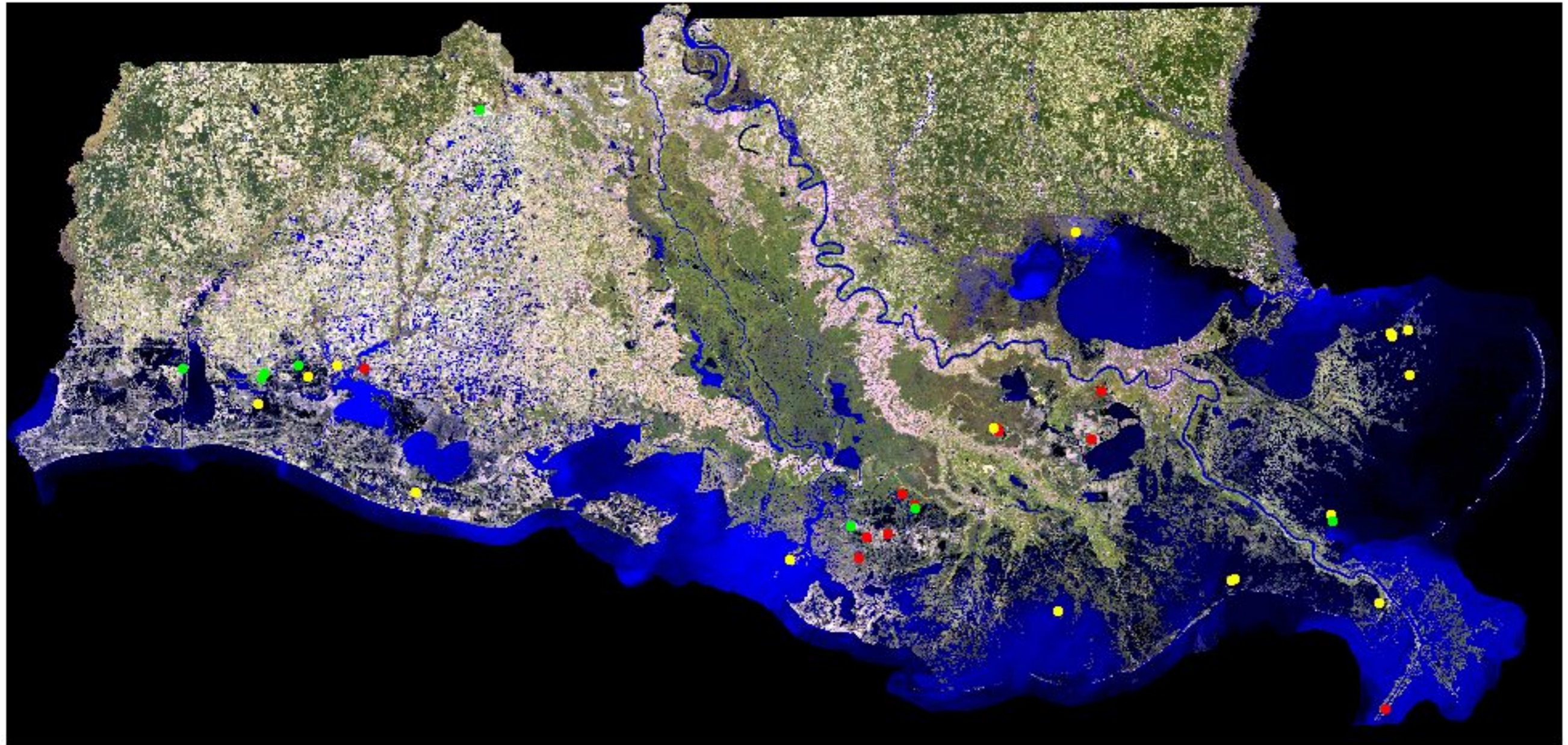
Cormorant and Anhinga Locations



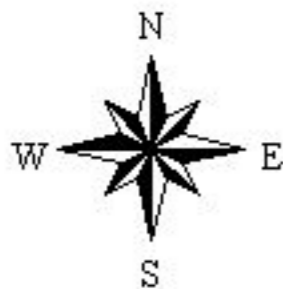
- Cormorant locations
- Anhinga locations
- Cormorant and Anhinga locations



White Ibis and Dark Ibis Locations

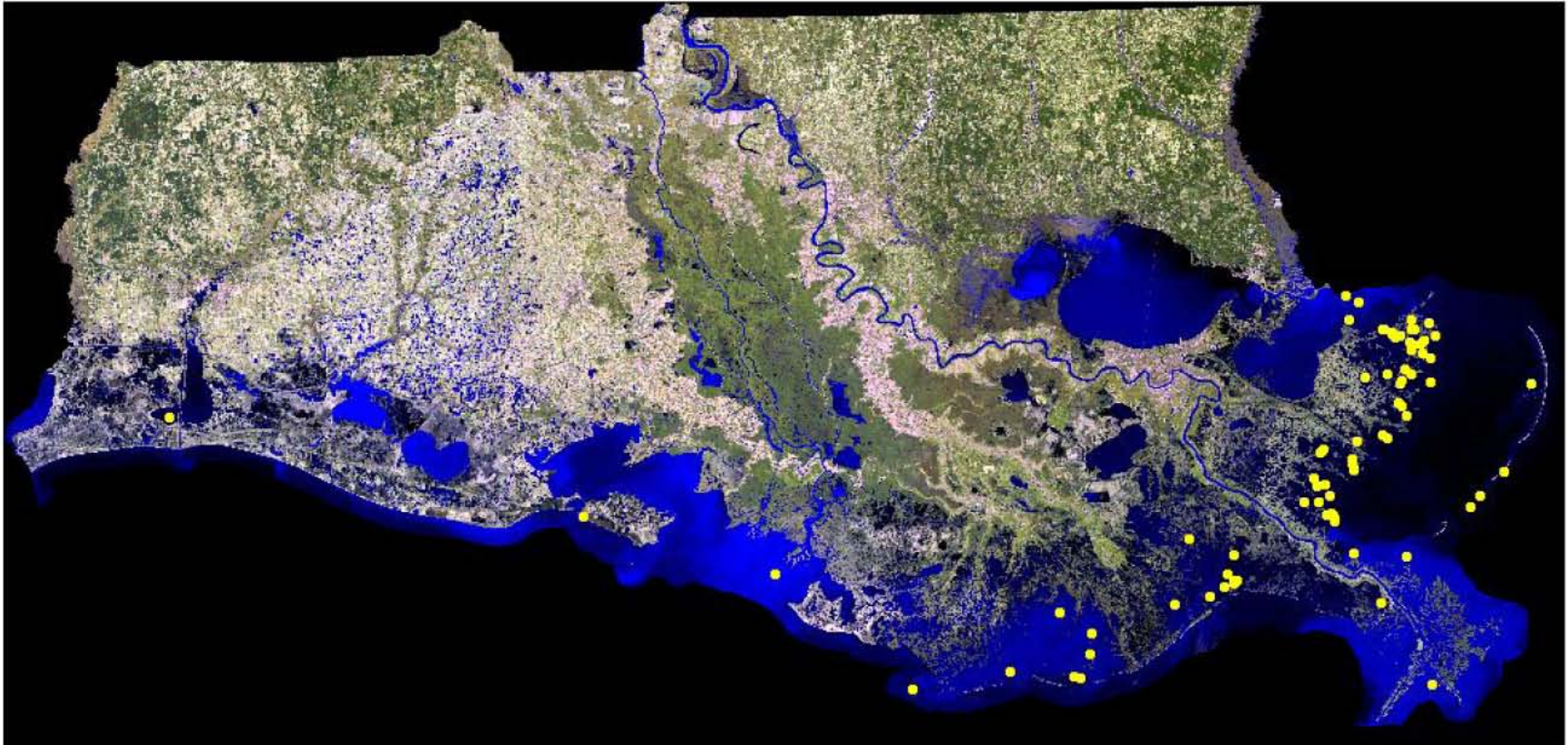


- White Ibis locations
- Dark Ibis locations
- White Ibis and Dark Ibis locations



90 0 90 Miles

Seabird Locations



F-1



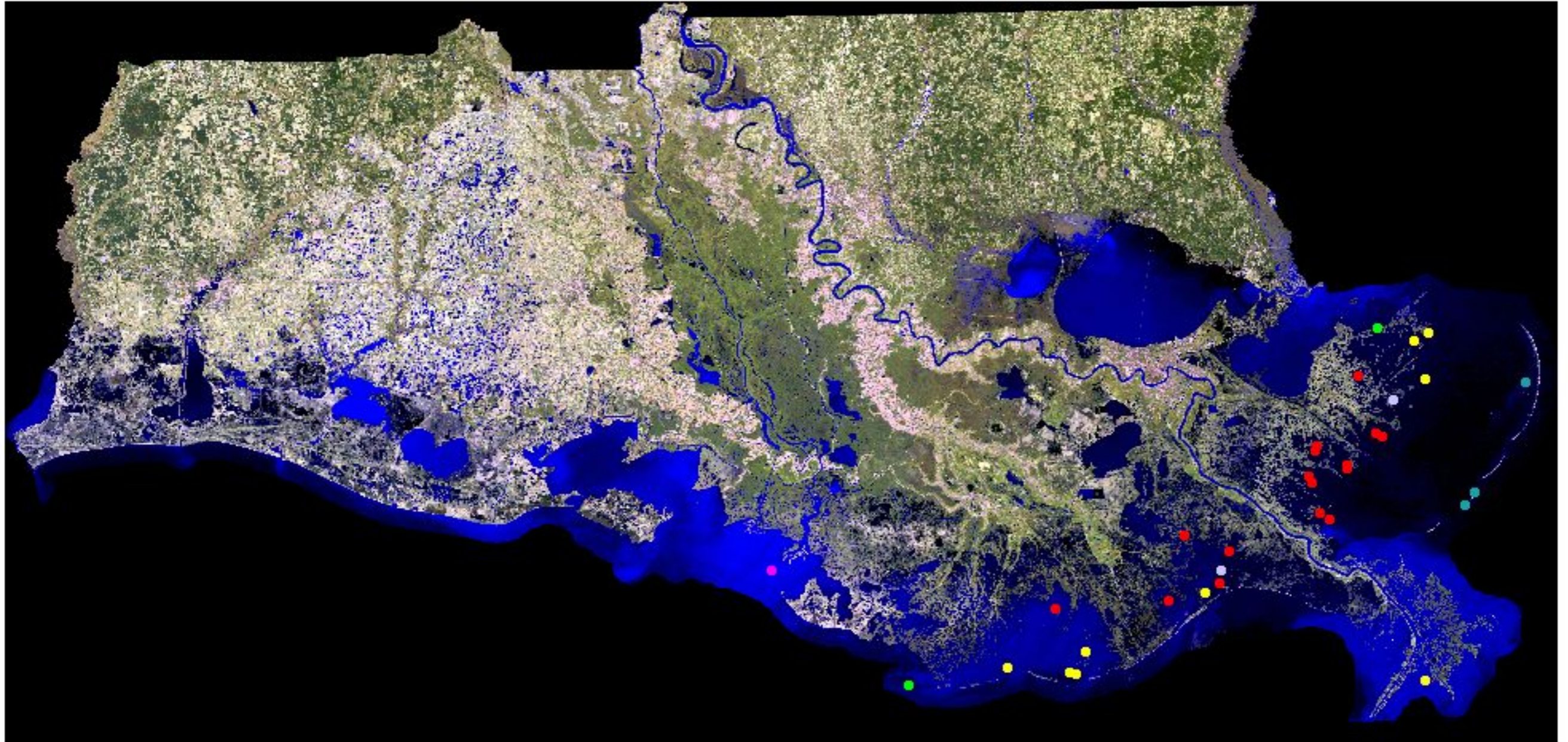
● Locations of colonies containing seabirds:
ROYT, FOTE, LETE, SATE, CATE,
GBTE, LAGU, HERG, BLSK
(see Appendix A for species abbreviations).

90

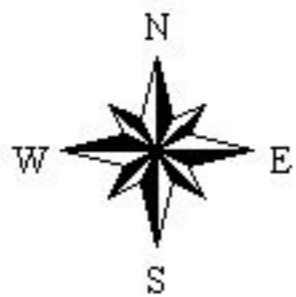
0

90 Miles

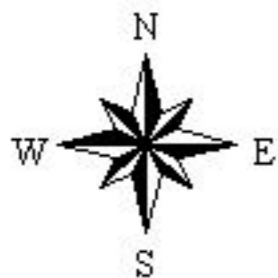
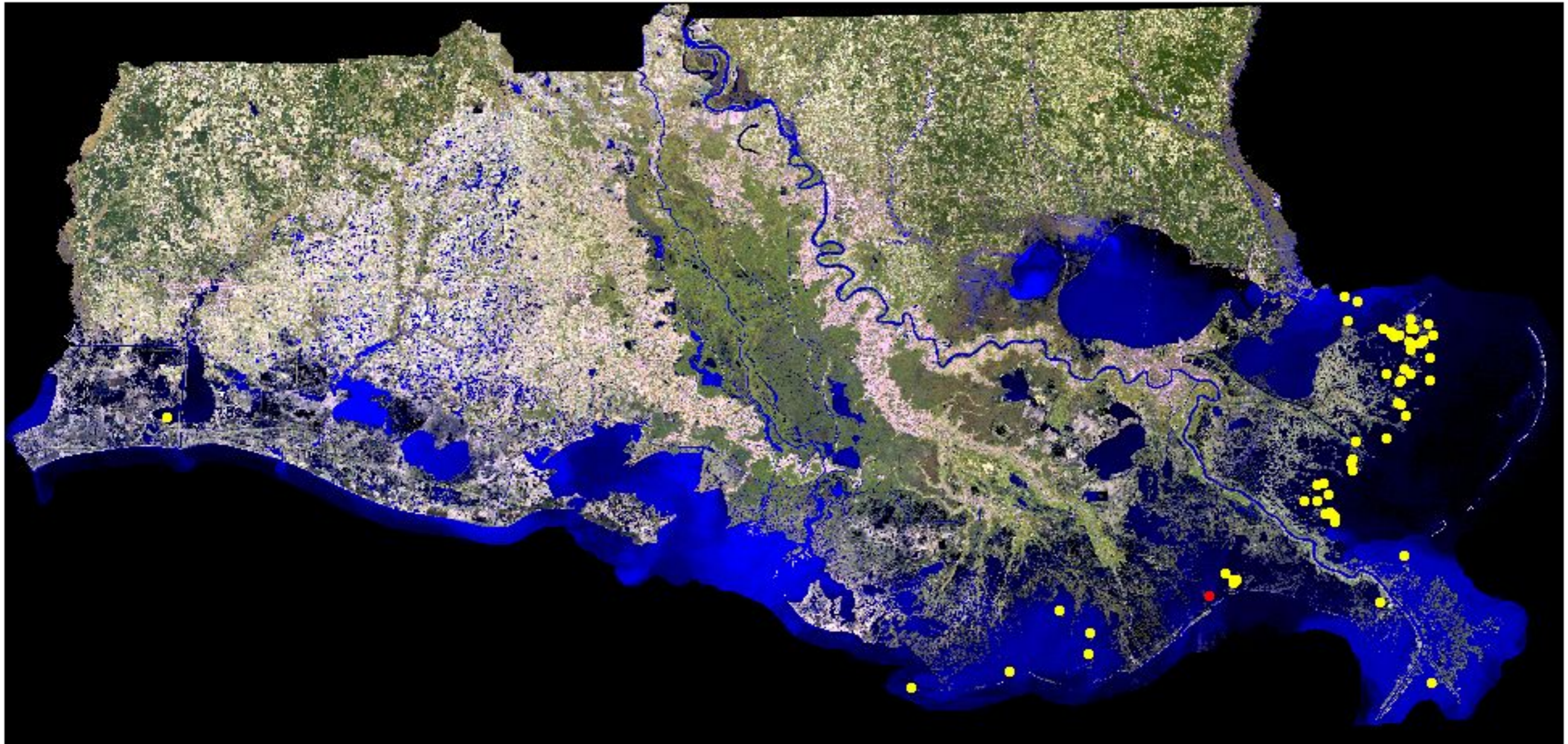
Royal Tern, Forster's Tern and Sandwich Tern Locations



- Forster's Tern locations
- Royal Tern locations
- Sandwich Tern locations
- Royal Tern and Forster's Tern locations
- Royal Tern and Sandwich Tern locations
- Sandwich Tern and Forster's Tern locations



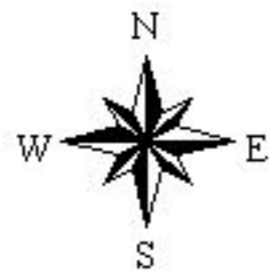
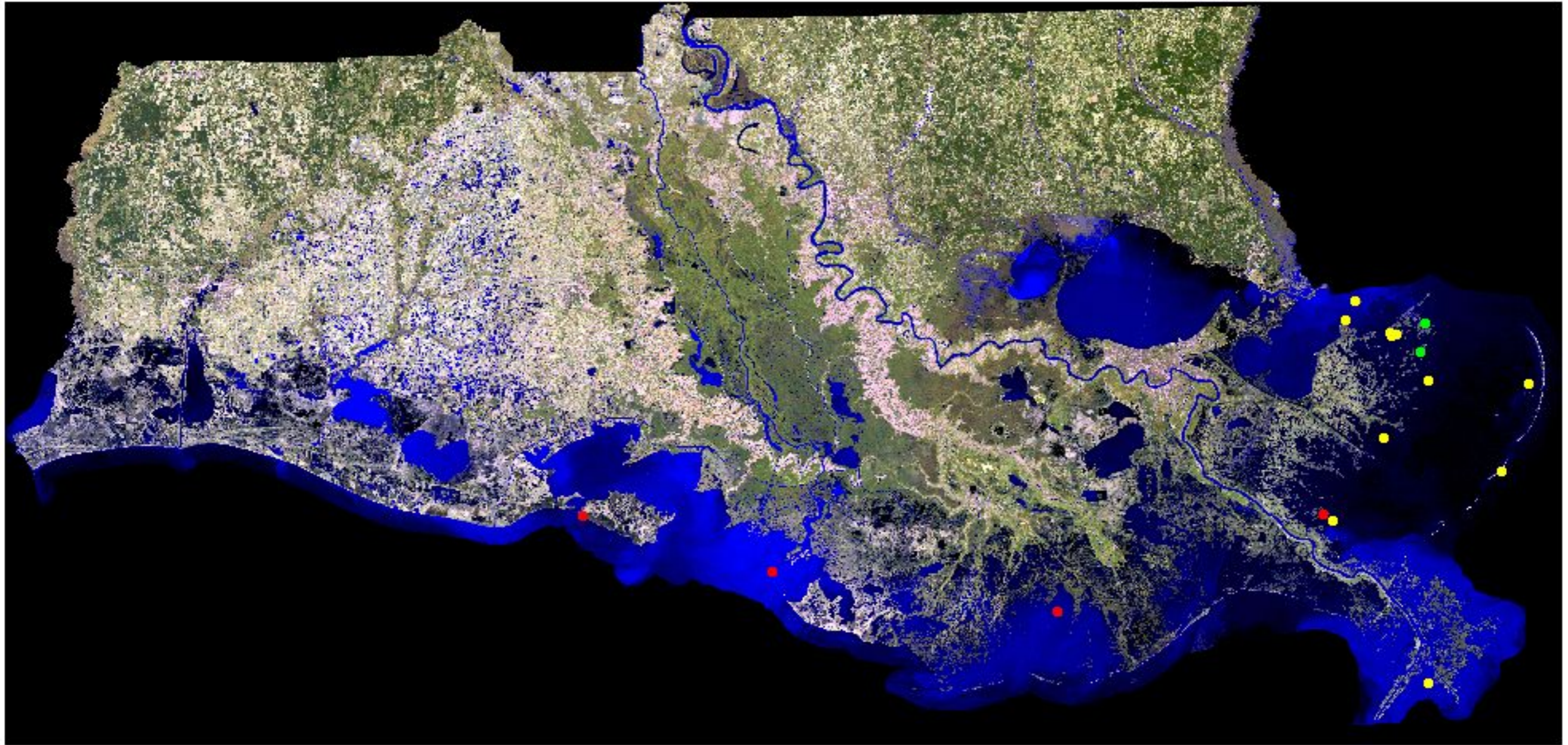
Laughing Gull and Herring Gull Locations



- Herring Gull and Laughing Gull locations
- Laughing Gull locations



Caspian Tern, Gull-billed Tern, and Least Tern Locations

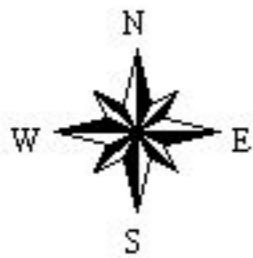
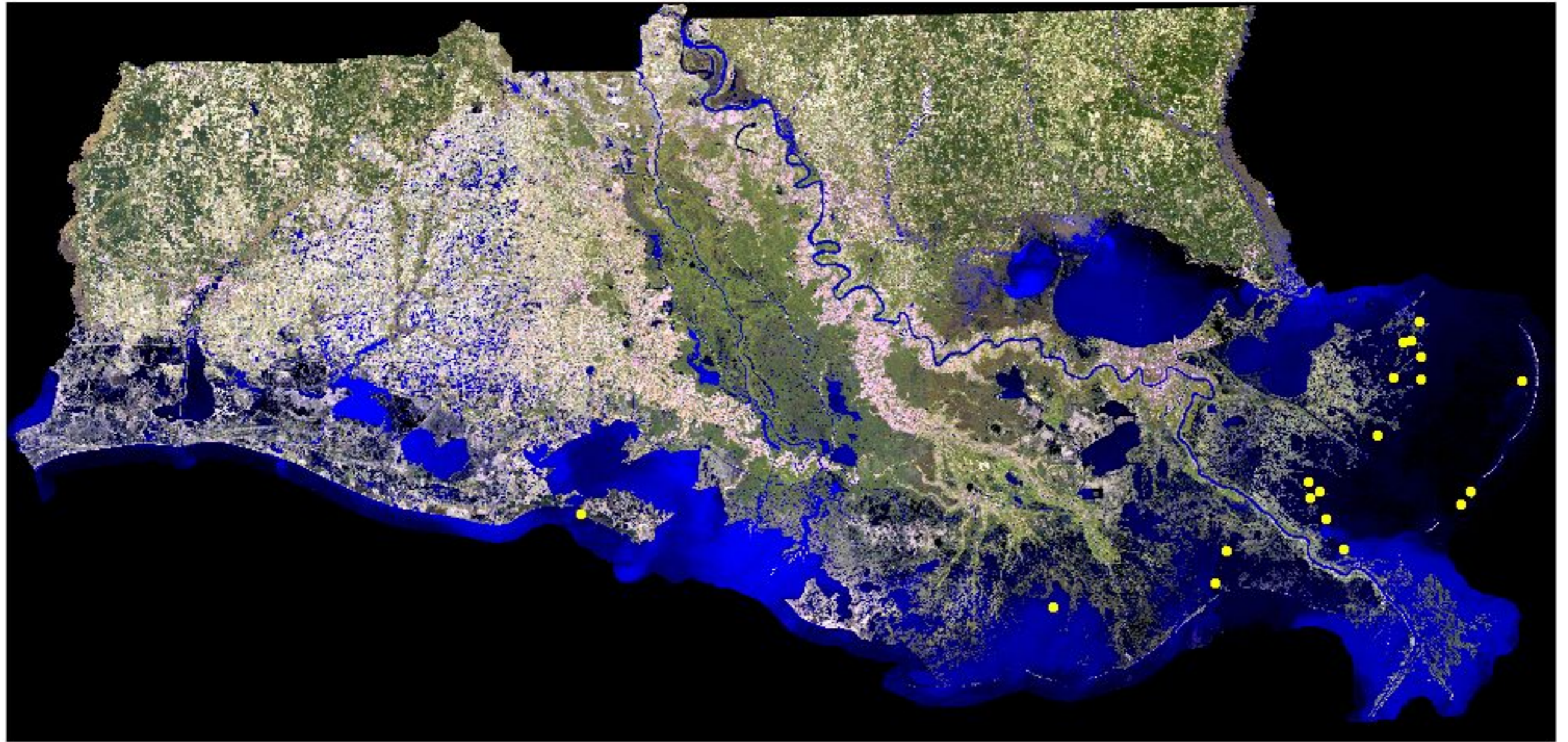


- Caspian Tern locations
- Gull-billed Tern locations
- Least Tern locations

90 0 90 Miles

A horizontal scale bar with a black and white alternating pattern. It is marked with '90' at the left end, '0' in the middle, and '90 Miles' at the right end.

Black Skimmer Locations



● Black Skimmer locations



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8) Links

- [U.S. Geological Survey](#)
- [National Wetlands Research Center](#)
- [U.S. Fish and Wildlife Service](#)

- [Barataria - Terrebonne National Estuary Program \(BTNEP\)](#)