

# Turtle Watch Annual Report

18 November 2024

Prepared for:

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**Summary.** This report provides results for the 2024 sea turtle nesting season on Panama City Beach. The information is submitted by Panama City Beach Turtle Watch, Inc. (aka Turtle Watch) to fulfill requirements of our contract with the Bay County Tourist Development Council. Season highlights include:

- Below average nesting year with 34 loggerhead nests (based on 45/yr average during 2013-23).
- Hatchling production of 1830 turtles from 3100 eggs, giving an overall emergence success of 59%, slightly higher than last year. Ten nests produced no hatchlings due to wash over or washout from Tropical Storm Alberto, Hurricane Francine, and Hurricane Helene.
- Artificial lights continue to threaten sea turtles on our beach, disorienting 68% of hatchlings emerging from nests at night this season. Single family home lights, streetlights, and urban glow were the main contributors.
- Record breaking year for tagging nesting females as four nesting loggerheads were tagged with passive tags as part of a research study. Three of these were tagged during nighttime Leave No Trace (LNT) enforcement.
- Fifteen strandings occurred within the survey area, 11 of which involved live turtles accidentally hooked or entangled in fishing gear near the two Gulf piers or along the beach. Gulf World Marine Institute responded to the live stranding incidents.
- Only two adult turtles were obstructed by beach furniture while attempting to nest at night, continuing a positive trend of fewer obstruction incidents due to improved regulations within the City of Panama City Beach.
- A new educational sign was placed on all marked nests containing tips for safe turtle encounters and a direct phone number for reaching Turtle Watch volunteers. Callers were able to notify us of four hatching nests allowing volunteers to respond and recover disoriented hatchlings. This helped lead to less hatchling mortality this season.
- Utilized virtual reality with actual footage from crawls on Panama City Beach for training of surveyors and volunteers.

Major results are summarized below. Additional reports have been submitted to the Florida Fish and Wildlife Conservation Commission (FWC) to fulfill requirements of our State Permits 038, 271 and 286. These documents are available upon request.

**Survey Area and Nourishment Activities.** Turtle Watch monitors sea turtle activity along 17.5 miles of Gulf beach between St. Andrews State Park and Camp Helen State Park. Portions of the survey area were nourished in 2021-22 with sand pumped onto the beach from an offshore source. Figure 1 is a map of the survey area showing two construction segments totaling about 13 miles along with Florida Department of Environmental Protection Reference Monuments (R-markers). Sand pumping was performed on the western segment (R-1 to R-41) from 15 September 2021 to 13 February 2022 and the eastern segment (R-62 to R-92) from 22 October 2021 to 16 April 2022. The eastern segment was tilled while the western segment was left untilled as part of a joint research project by the U.S. Fish and Wildlife Service and U.S. Geological Survey.

**Nest Identification and Relocation.** Morning surveys to identify fresh sea turtle crawls were performed from May 1 to September 15. The surveys were done on all-terrain vehicles, and nests

were identified solely from the physical evidence left in the sand by the nesting turtle (body pit and sand mound created by flippers). Beginning on September 16 and continuing through October 6, surveys were limited to checks of existing nests which were monitored daily until they hatched and/or were excavated. Regarding nest relocation, nests found in the nourishment project area, including the reference area (Figure 1), were required to remain in place unless laid next to a storm drain, in which case they could be moved to a safer spot nearby. This was the final year for this requirement which is a three-year post nourishment stipulation.

**Nesting and Hatchling Production.** We found 34 nests and 28 non-nesting emergences (false crawls) during 2024. All nests and false crawls were made by threatened loggerheads. Locations of nests and false crawls are shown in Figure 2, a map of the survey area with each column of symbols representing activity on a 0.5-mile section of beach (35 sections). Tables 1-3 provide detailed information on each nest and false crawl, including the location, date found, date hatched, and nest excavation results. Key results are as follows:

- Combined loggerhead hatchling production was 1830 turtles from 3100 eggs for an overall emergence success of 59% (31 evaluated nests, Figure 3). Average loggerhead nest size was 110 eggs (range 78- 136, 31 nests, excluding three partial washouts, one complete washout, one partially depredated, 2 with no eggs) and average incubation period was 60 days (range 53-71, 22 nests, Figure 4).
- Four nesting loggerhead turtles were tagged during nighttime LNT enforcement (3) or based on a call from local police (1). A metal tag was applied to each front flipper and an electronic PIT tag was injected into the left shoulder.
- Two loggerhead nests were missed by the morning surveys and were later marked. One was found by beach goers when hatchlings appeared on the beach at night and one was found as beach goers found eggs washing away during Tropical Storm Alberto.
- Tropical Storm Alberto flooded 13 nests and partially washed out one nest while it was in the Gulf from June 13-23. Hurricane Francine flooded three nests while in the Gulf from September 12-13. Finally, Hurricane Helene flooded one nest and completely washed out one nest while it was in the Gulf from September 26-27.
- One nest located near the boundary of St Andrews State Park was partially depredated by a coyote, confirmed from tracks, the first such occurrence in more than a decade.
- Public nest excavations were performed at 21 nests following hatching. In addition to 1216 people who attended in person, many more joined virtually for many excavations streamed live on our Facebook page, Panama City Beach Turtle Watch.

**Beachfront Lighting Affecting Nesting and Hatchling Turtles.** Artificial lights from beachfront development continue to pose a serious threat to sea turtles on our urban beach, causing substantial numbers of hatchlings to become disoriented when emerging from nests at night. We submitted disorientation data to FWC's online system and provided a separate summary report with more on this subject, including procedures to monitor nests and estimate lighting effects on nesting and hatchling turtles. Key results are as follows:

- Lights disoriented 1249 of 1830 hatchlings or 68% of those emerging at night from 24 nests.

- Urban glow was the largest contributor at 32%, followed by streetlights and single-family homes (exterior lights) which contributed 12% and 11%, respectively (Figure 5).
- Adult loggerheads were disoriented at three nests (Table 4).

**Beach Furniture Affecting Nesting Turtles.** We documented only two incidents where adult turtles encountered obstructions while attempting to nest or after successfully nesting (Table 5). This good news continues a positive trend within the City limits, thanks to an updated Leave No Trace (LNT) ordinance requiring nightly storage of vendor chairs at the base of the dune. Neither of the obstructed nesting incidents shown in Table 5 occurred on the municipal beach.

**Stranding Incidents.** Fifteen (15) turtles stranded within the survey area between May and October (Table 6). They consisted of 13 loggerheads and 2 Kemp's ridleys. Four were found dead on the beach or in the water. The beach cleaning contractor, Coastal Parasail, removed dead turtles from the beach as part of their beach cleaning duties. Gulf World Marine Institute (GWMI) responded to 11 turtles, found alive along the beach or near the two Gulf piers, with embedded hooks or entangled in fishing gear. These turtles were taken to GWMI for treatment and rehabilitation. We experienced fewer overall strandings partly due to educational efforts made by GWMI and Turtle Watch along with the assistance of our local agencies.

**Seabird and Shorebird Nesting.** Turtle Watch surveyors coordinated with FWC personnel who posted two locations within the survey area at Bid-a-Wee Beach, and Sunnyside Beach to protect seabirds and shorebirds. At peak, the Bid-a-Wee colony had 110 least tern nests and 14 black skimmer nests. FWC estimates approximately 200 nests were laid in total at this site over the course of the season. Approximately 100 least tern chicks and 10 black skimmer chicks successfully fledged. At peak, the Sunnyside Beach colony site had 60 least tern nests. Approximately 30-50 chicks successfully fledged. A single pair of black skimmers had a few nesting attempts but never hatched a chick at Sunnyside. As in prior years, the greatest impacts to the colonies involved human and vehicle impacts. In addition, a handful of nests were lost to over wash during high tide events, and some were lost to ghost crabs. Nesting was more successful than last year.

**Beach Cleaning and LNT Coordination.** Turtle Watch surveyors notified Coastal Parasail each morning when surveys were done and nests marked so that beach cleaning could begin. Additionally, Turtle Watch provided Wildlife Observers (WO) as part of enforcement of the LNT ordinances performed nightly between May 13 and September 15, removing tents and other personal gear covered by the ordinances. Crews received training from Turtle Watch representatives on nighttime operations to minimize impacts on beach wildlife. The WO drove a gator (mule) while watching for nesting and hatchling turtles and other wildlife, including birds. The vehicle stopped, lights were turned off, and crews were advised to halt operations when turtles were observed. During 2024, WO encountered four nesting turtles and one turtle with a non-nesting emergence (false crawl). Additionally, they arrived at five nests to find hatchlings emerging and one nest with disoriented hatchlings on the beach. They contacted Turtle Watch volunteers operating under MTP-271 for hatchling recovery and release activities to be performed before continuing with the nightly operations.

## Distribution

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16. Norman Capra, [nfcapra@gmail.com](mailto:nfcapra@gmail.com), Audubon Bay County

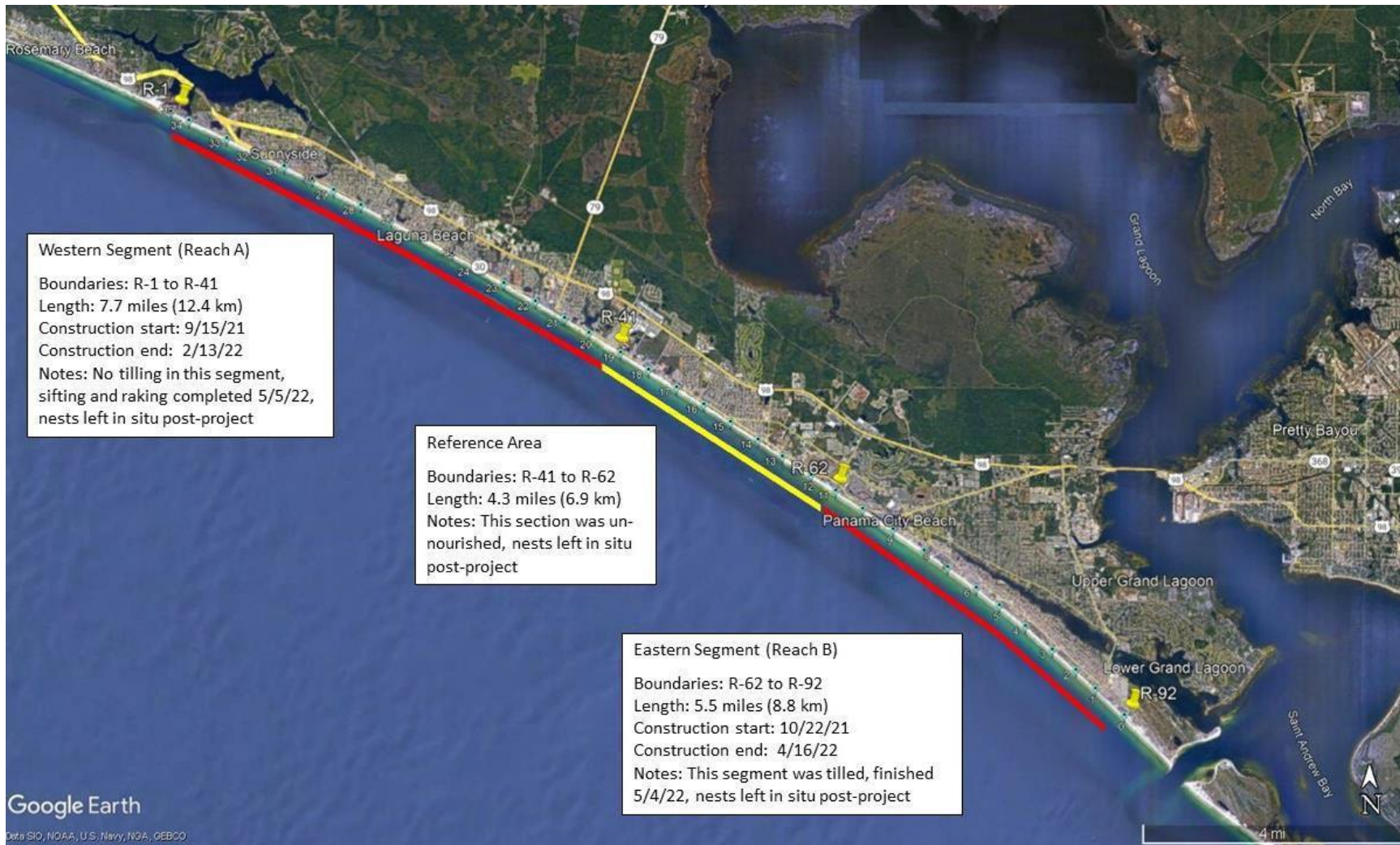
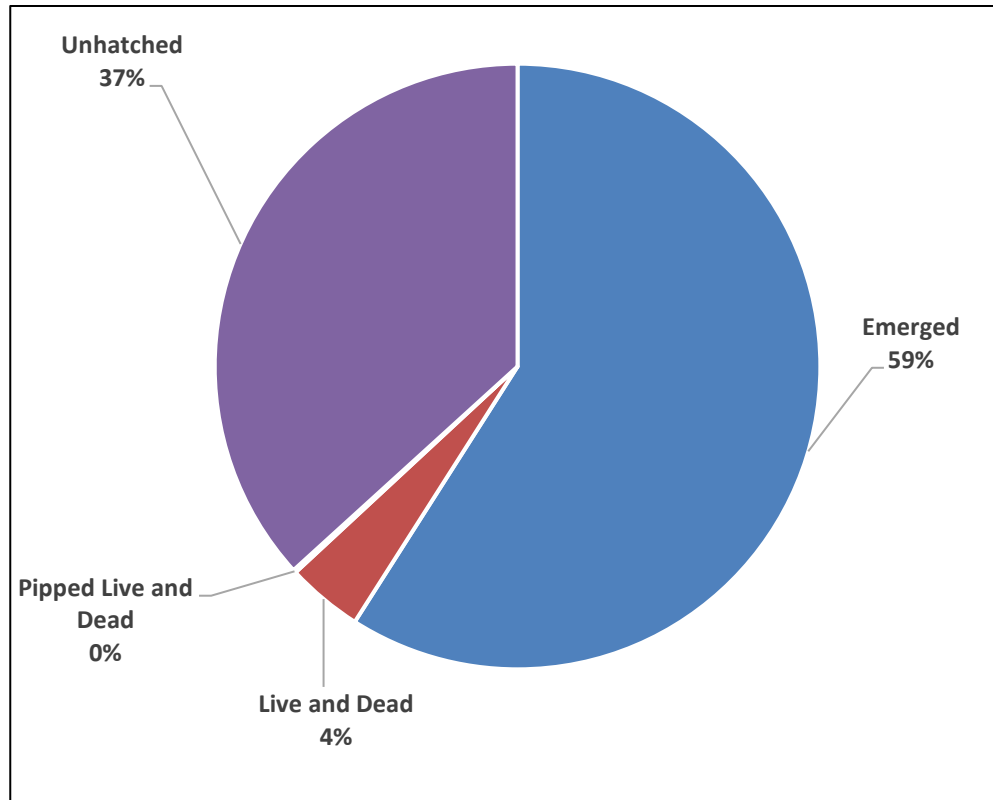


Figure 1. Survey area showing two beach sections nourished in 2021-2022.



Figure 2. Sea turtle nest and false crawl locations on Panama City Beach in 2024 (34 loggerhead nests, 28 loggerhead false crawls). Each column of symbols represents crawls on ½-mile beach segment (yellow nests, blue false crawls).



Loggerhead (34 nests)

Figure 3. Emergence success for sea turtle nests on Panama City Beach in 2024 (31 loggerhead nests). Contents are unhatched eggs, live and dead hatchlings found in nest, pipped eggs where hatchling partially broke free of shell, and emerged hatchlings that escaped the nest.

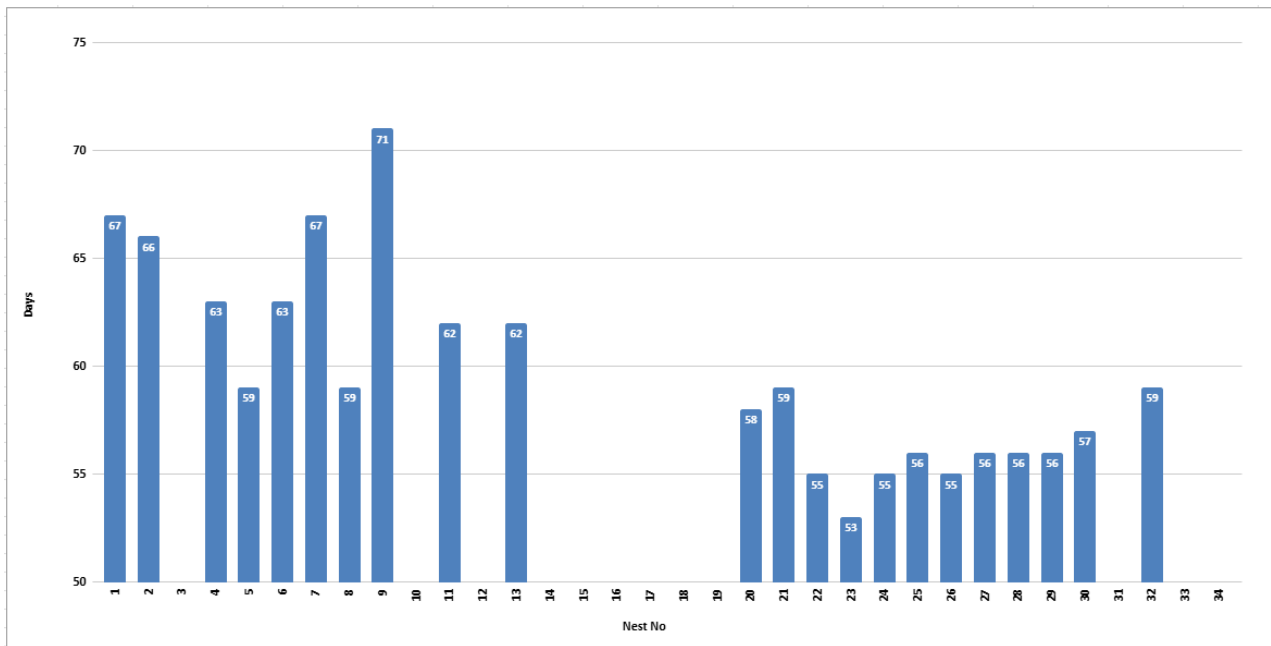


Figure 4. Nest incubation periods on Panama City Beach in 2024 (22 loggerhead nests).  
Blanks indicate nests that failed to hatch or had unknown incubation periods.

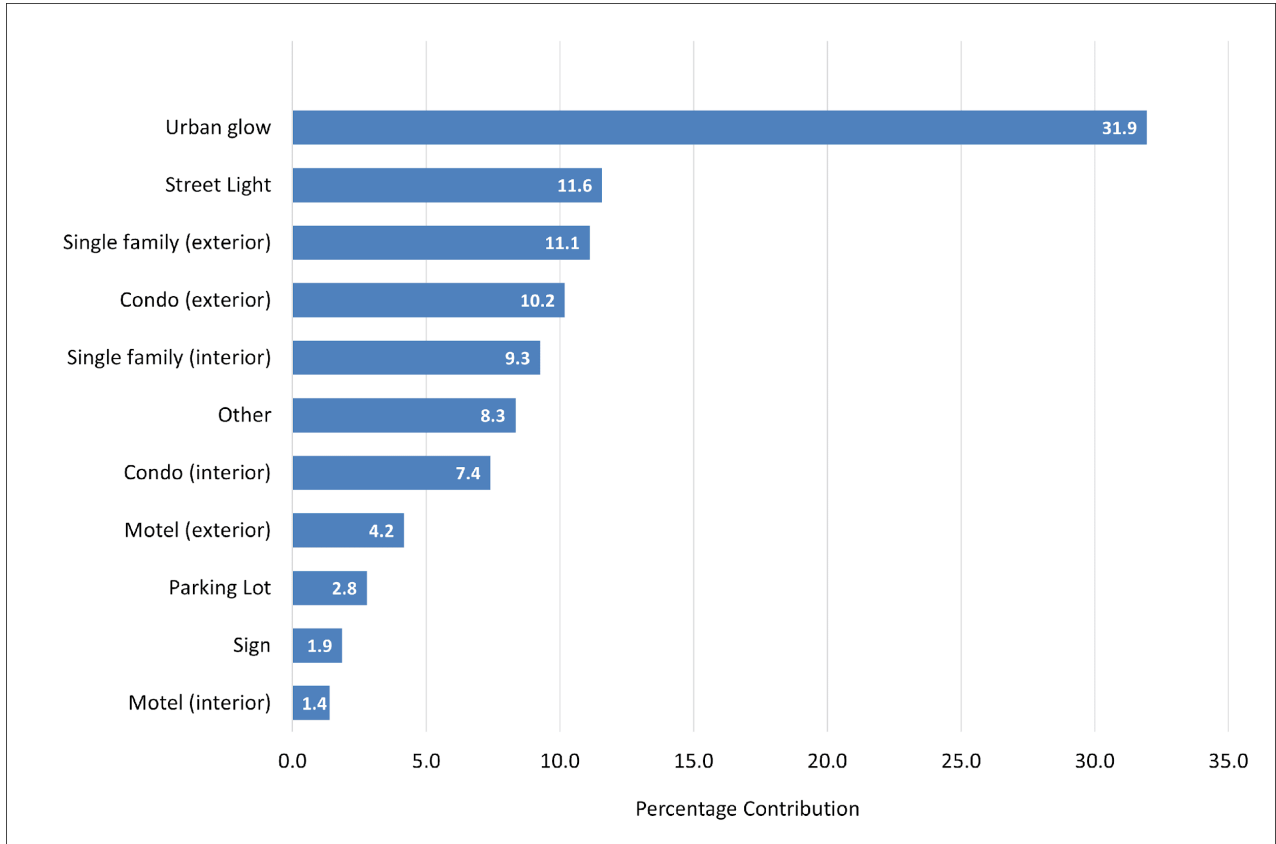


Figure 5. Lights contributing to hatchling disorientation incidents on Panama City Beach in 2024 (18 loggerhead nests).

Table 1. Sea turtle nest locations and hatching information on Panama City Beach in 2024.  
Cc loggerhead, UNK unknown

Nest No	Species	Address	In Situ or Relocated	Date Laid	Date Hatched	Incubation (days)	Total Eggs	Turtles Emerged	Latitude	Longitude
1	Cc	Majestic Condo, 10901 Front Beach Rd	In Situ	13-May	18-Jul	67	131	129	30.17999	-85.814433
2	Cc	Pirates Cove Villas, 23001 Front Beach Rd	In Situ	16-May	20-Jul	66	102	96	30.259295	-85.971616
3	Cc	Townhouse, 17467 Front Beach Rd	In Situ	20-May	UNK	UNK	89	4	30.2275	-85.901998
4	Cc	Townhouse, 17135 Front Beach Rd	In Situ	22-May	23-Jul	63	109	90	30.221842	-85.890449
5	Cc	House, 22115 Front Beach Road	In Situ	29-May	26-Jul	59	111	104	30.255217	-85.962295
6	Cc	Vacant Lot, 21000 Front Beach Road	In Situ	29-May	30-Jul	63	123	113	30.24827	-85.945593
7	Cc	Townhouse, 9610 Beach Blvd	In Situ	29-May	3-Aug	67	105	50	30.17197	-85.80117
8	Cc	Seachase Condo, 17351 Front Beach Rd	In Situ	2-Jun	30-Jul	59	133	103	30.225899	-85.898922
9	Cc	Polynesian Village Condo, 16621 Front Beach Rd	In Situ	3-Jun	13-Aug	71	136	9	30.218357	-85.883921
10	Cc	House, 16505 Front Beach Road	In Situ	6-Jun	UNK	UNK	2	0	30.21603	-85.879497
11	Cc	House, 21326 Front Beach Road	In Situ	8-Jun	8-Aug	62	127	48	30.250858	-85.951618
12	Cc	House, 8209 Surf Drive	In Situ	10-Jun	UNK	UNK	0	0	30.162134	-85.784907
13	Cc	House, 20804 Front Beach Rd	In Situ	10-Jun	10-Aug	62	104	99	30.247371	-85.943907
14	Cc	Nautical Watch, 6205 Thomas Drive	In Situ	11-Jun	UNK	UNK	103	0	30.148971	-85.765892
15	Cc	House, 22017 Front Beach Road	In Situ	11-Jun	UNK	UNK	130	0	30.254563	-85.960814
16	Cc	House, 5415 Gulf Drive	In Situ	14-Jun	UNK	UNK	0	0	30.142774	-85.757739
17	Cc	Sandpiper Beacon, 17403 Front Beach Rd	In Situ	14-Jun	UNK	UNK	78	0	30.226849	-85.900811
18	Cc	House, 378 Beachside Dr, Carillon Beach	In Situ	17-Jun	UNK	UNK	135	0	30.261809	-85.978118
19	Cc	Sands of Laguna, 20711 Front Beach Rd	In Situ	UNK	UNK	UNK	58	0	30.246303	-85.941772

20	Cc	Laguna Beach, 19334 Front Beach Rd	In Situ	20-Jun	16-Aug	58	83	74	30.237839	-85.923066
21	Cc	Laguna Beach, 19720 Front Beach Rd	In Situ	20-Jun	18-Aug	59	105	102	30.240133	-85.927827
22	Cc	House, 13661 Front Beach Rd	In Situ	22-Jun	15-Aug	55	103	36	30.199336	-85.848324
23	Cc	Vacant lot, 17561 Front Beach Rd	In Situ	23-Jun	14-Aug	53	113	102	30.229262	-85.905392
24	Cc	Moonspinner, 4425 Thomas Drive	In Situ	24-Jun	18-Aug	55	27	19	30.133493	-85.746265
25	Cc	House, 6623 Gulf Drive	In Situ	25-Jun	19-Aug	56	107	99	30.153072	-85.771229
26	Cc	Beachcomber, 17101 Front Beach Rd	In Situ	30-Jun	23-Aug	55	128	106	30.221588	-85.890006
27	Cc	House, 20107 Front Beach Rd	In Situ	30-Jun	25-Aug	56	92	82	30.24317	-85.934659
28	Cc	Sugar Beach Condo, 8727 Thomas Dr	In Situ	3-Jul	27-Aug	56	101	95	30.166725	-85.792221
29	Cc	The Shores Condo, 22519 Front Beach Rd	In Situ	12-Jul	5-Sep	56	108	102	30.258017	-85.968936
30	Cc	Shoreline Villas, 23007 Front Beach Rd	In Situ	18-Jul	13-Sep	57	88	3	30.259709	-85.973294
31	Cc	House, 21603 Front Beach Rd	In Situ	19-Jul	UNK	UNK	52	0	30.251988	-85.95425
32	Cc	Pinnacle Port Condo, 23223 Front Beach Rd	In Situ	22-Jul	18-Sep	59	121	76	30.264597	-85.985215
33	Cc	Vacant lot, 14929 Front Beach Rd	In Situ	24-Jul	UNK	UNK	0	0	30.206766	-85.862063
34	Cc	Venture Out, 4345 Thomas Dr	In Situ	UNK	26-Jul	UNK	96	89	30.134728	-85.747658

Table 2. Sea turtle false crawl locations and crawl dates on Panama City Beach in 2024.  
Cc loggerhead

Crawl No	Species	Address	Crawl Date	Latitude	Longitude
1	Cc	Edgewater Beach Resort, 11212 Front Beach Rd	24-May	30.18501	-85.82261
2	Cc	House, 13908 Front Beach Rd	10-Jun	30.20069	-85.8511
3	Cc	House, 21022 Front Beach Rd	10-Jun	30.24894	-85.94746
4	Cc	House, 21803 Front Beach Rd	10-Jun	30.25305	-85.95703
5	Cc	Boardwalk Beach Resort, 9600 S Thomas Dr	10-Jun	30.17135	-85.80048
6	Cc	Wyndham Beach Resort, 14700 Front Beach Rd	12-Jun	30.20485	-85.85857
7	Cc	Beachcomber Hotel, 17101 Front Beach Rd	12-Jun	30.221	-85.88914
8	Cc	Tropic Winds Condo, 17643 Front Beach Rd	12-Jun	30.23047	-85.90807
9	Cc	Laguna Beach Christian Retreat, 20225 Front Beach Rd	13-Jun	30.24367	-85.93604
10	Cc	Carousel (store), 19440 Front Beach Rd	14-Jun	30.23829	-85.92426
11	Cc	Treasure Island Condo, 5004 Thomas Dr	24-Jun	30.13915	-85.75288
12	Cc	Harpoon Harry's Restaurant, 12627 Front Beach Rd	25-Jun	30.1925	-85.83614
13	Cc	House, 9618 Beach Blvd	25-Jun	30.17233	-85.80189
14	Cc	Sandpiper Beacon Beach Resort, 17403 Front Beach Rd	28-Jun	30.22631	-85.89981
15	Cc	House, 13013 Oleander Drive	29-Jun	30.19545	-85.84158
16	Cc	Holiday Inn Resort, 11127 Front Beach Rd	29-Jun	30.18224	-85.8186
17	Cc	Twin Palms, 10519 Front Beach Rd	29-Jun	30.17773	-85.81093
18	Cc	House, 6701 Gulf Dr	1-Jul	30.15317	-85.77158
19	Cc	Park Place Condo, 4421 Thomas Dr	10-Jul	30.13284	-85.74565
20	Cc	Celadon Condo, 17757 Front Beach Rd	11-Jul	30.23259	-85.91241
21	Cc	Carousel (store), 19440 Front Beach Rd	11-Jul	30.23825	-85.92408
22	Cc	House, 20623 Front Beach Rd	16-Jul	30.2454	-85.93972
23	Cc	Vacant lot, 8325 Surf Dr	17-Jul	30.16375	-85.78656
24	Cc	Vacant lot, 19935 Front Beach Rd	18-Jul	30.24154	-85.9303
25	Cc	House, 20015 Front Beach Rd	18-Jul	30.24287	-85.9343
26	Cc	Beachside Resort, 21905 Front Beach Rd	18-Jul	30.25379	-85.95882
27	Cc	Pinnacle Port Condo, 23223 Front Beach Rd	18-Jul	30.26529	-85.98685
28	Cc	House, 13309 Oleander Dr	23-Jul	30.19271	-85.84466

Table 3. Loggerhead nest excavation data on Panama City Beach in 2024 (31 evaluated nests).

Contents are unhatched eggs, live and dead hatchlings found in nest, pipped eggs where hatchling partially broke free of shell, and emerged hatchlings that escaped the nest. **Red indicates nest partially depredated (DEP) or partially washed out with recovered eggs relocated during washout (PWOR).**

Nest No	Eggs	Turtles Emerged	Live in Nest	Dead in Nest	Pipped Live	Pipped Dead	Unhatched	Emergence Success	In Situ or Relocated
1	131	129	1	0	0	0	1	0.98	In situ
2	102	96	1	0	0	0	5	0.94	In situ
3	89	4	0	0	0	0	85	0.04	In situ
4	109	90	0	1	0	0	18	0.83	In situ
5	111	104	1	0	0	0	6	0.94	In situ
6	123	113	0	0	0	0	10	0.92	In situ
7	105	50	1	0	0	0	54	0.48	In situ
8	133	103	15	0	0	0	15	0.77	In situ
9	136	9	0	0	0	0	127	0.07	In situ
10	2	0	0	0	0	0	2	0.00	In situ/PWOR
11	127	48	6	2	0	0	71	0.38	In situ
13	104	99	0	0	0	0	5	0.95	In situ
14	103	0	0	0	0	0	103	0.00	In situ
15	130	0	0	0	0	0	130	0.00	In situ
17	78	0	0	0	0	0	78	0.00	In situ
18	135	0	0	0	0	0	135	0.00	In situ
19	58	0	0	0	0	0	58	0.00	In situ/PWOR
20	83	74	0	0	0	0	9	0.89	In situ
21	105	102	0	0	0	0	3	0.97	In situ
22	103	36	0	0	0	0	67	0.35	In situ
23	113	102	0	0	0	0	11	0.90	In situ
24	27	19	0	0	0	0	8	0.70	In situ/DEP
25	107	99	0	0	0	0	8	0.93	In situ
26	128	106	0	0	0	0	22	0.83	In situ
27	92	82	0	0	0	0	10	0.89	In situ
28	101	95	0	0	0	0	6	0.94	In situ
29	108	102	0	0	0	0	6	0.94	In situ
30	88	3	0	84	0	1	0	0.03	In situ
31	52	0	0	0	0	0	52	0.00	In situ/PWOR
32	121	76	5	8	0	3	29	0.63	In situ
34	96	89	0	1	0	0	6	0.93	In situ
<b>TOTAL</b>	<b>3100</b>	<b>1830</b>	<b>30</b>	<b>96</b>	<b>0</b>	<b>4</b>	<b>1140</b>	<b>0.59</b>	

Table 4. Disorientation by sea turtles during nesting attempts on Panama City Beach in 2024.  
Cc = loggerhead

Crawl No	Species	Crawl Type	Address	Latitude	Longitude	Incident Date	Light Sources
6	Cc	Nest	Vacant Lot, 21000 Front Beach Road	30.24827	-85.945593	5/28/2024	Street light, condo exterior, urban glow
12	Cc	Nest	House, 8209 Surf Drive	30.162134	-85.784907	6/10/2024	Unknown
28	Cc	Nest	Sugar Beach Condo, 8727 Thomas Dr	30.166725	-85.792221	7/3/2024	Condo exterior, urban glow

Table 5. Obstacles encountered by sea turtles during nesting attempts on Panama City Beach in 2024.  
Cc = loggerhead

Crawl No	Species	Crawl Type	Address	Latitude	Longitude	Incident Date	Obstacles Encountered
12	Cc	Nest	House, 8209 Surf Drive	30.162134	-85.784907	6/10/2024	Vendor beach loungers
24	Cc	Nest	Moonspinner, 4425 Thomas Drive	30.133493	-85.746265	6/24/2024	Temporary double red flag pole

Table 6. Sea turtle strandings on Panama City Beach from May to October 2024.  
Cc loggerhead, Lk Kemp's ridley

No.	Date	Location	Latitude	Longitude	Species	Shell Length (cm)	Final Disposition
1	3-May	M.B. Miller County Pier, 12213 Front Beach Rd	30.18653	-85.833885	Cc	60.8	GWMI Rehab
2	4-May	M.B. Miller County Pier, 12213 Front Beach Rd	30.18796	-85.83244	Lk	67.5	Buried, off beach
3	15-May	Regency Condo, 5801 Thomas Dr	30.14595	-85.76192	Cc	87.0	Buried, off beach
4	25-Jun	Flamingo Motel, 15525 Front Beach Rd	30.21087	-85.87002	Cc	68.4	Buried, off beach
5	1-Jul	Russell-Fields City Pier, 16201 Front Beach Rd	30.213035	-85.879153	Cc	77.4	GWMI Rehab
6	6-Jul	M.B. Miller County Pier, 12213 Front Beach Rd	30.18651	-85.833678	Cc	76.4	GWMI Rehab
7	8-Jul	Russell-Fields City Pier, 16201 Front Beach Rd	30.213612	-85.878011	Cc	102	GWMI Rehab
8	9-Aug	M.B. Miller County Pier, 12213 Front Beach Rd	30.18756	-85.8331205	Cc	70.8	GWMI Rehab
9	29-Aug	Russell-Fields City Pier, 16201 Front Beach Rd	30.212005	-85.879571	Cc	77.4	GWMI Rehab
10	4-Sep	Seagull Villas, 17735 Front Beach Rd	30.23173	-85.91065	Cc	90.5	Buried, off beach
11	5-Sep	Access 84 20703 Front Beach Rd	30.245556	-85.941413	Cc	91.9	GWMI Rehab
12	11-Sep	M.B. Miller County Pier, 12213 Front Beach Rd	30.186615	-85.834022	Cc	77.6	GWMI Rehab
13	20-Sep	Russell-Fields City Pier, 16201 Front Beach Rd	30.213888	-85.87888	Lk	51.5	GWMI Rehab
14	23-Sep	Russell-Fields City Pier, 16201 Front Beach Rd	30.213671	-85.878392	Cc	71	GWMI Rehab
15	25-Oct	16701 Front Beach Rd (Sterling Breeze)	30.218672	-85.885299	Cc	101.4	GWMI Rehab