

St. Andrew Bay
RESOURCE MANAGEMENT ASSOCIATION
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5 November 2015

Kennard Watson, Turtle Watch Coordinator
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Dan Rowe, Director and CEO
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32417

Dear Mr. Rowe:

This letter provides results for the 2015 sea turtle nesting season on Panama City Beach. The information is submitted by the St. Andrew Bay Resource Management Association (RMA) to fulfill requirements of our contract with the Bay County Tourist Development Council. Highlights of the 2015 season include:

- Largest loggerhead nesting (49) and hatchling production (3359) since monitoring began in 1991.
- First appearance of endangered leatherback turtles since 2012, although none of the four nests found this year hatched.
- Reduced disorientation of loggerhead hatchlings by artificial lights, including efforts by Gulf Power to shield pole-mounted lights near turtle nests to reduce light spillover into nesting areas. Beachfront lighting remains a serious threat to sea turtles on this urban beach.
- Increased incidents of nesting loggerheads obstructed by lounge chairs left on the beach at night.
- Reduced number of dead and injured sea turtles stranded on the beach.
- Morning survey procedure adjusted to improve coordination with beach cleaner.

Major results are summarized below. The attachments contain forms submitted to the Florida Fish and Wildlife Conservation Commission (FWC) as part of reporting requirements under our State Permit No. 038.

Survey Area. RMA monitors sea turtle activity along 17.6 miles of Gulf beach between St. Andrews State Park and Camp Helen State Park. Portions of the survey area were nourished in 2011 with sand pumped onto the beach from an off-shore source. At the direction of FWC, special data collection procedures were employed during the past three seasons to check for potential adverse effects of the nourishment project on sea turtle nesting and hatching activity. The 3-year post-nourishment monitoring period ended in 2014, and we returned to standard data collection procedures this season.

Nesting and Hatchling Production. Forty nine (49) nests and 31 non-nesting emergences (false crawls) were made by threatened loggerhead turtles during 2015, representing the highest annual nesting since monitoring began in 1991. Additionally, four nests were made by endangered leatherback turtles, the first appearance of this species since 2012 when two nests were found. No crawls from other species were

found. Figure 1 shows nest and false crawl locations, with each column of symbols representing crawls identified on a 0.5 mile section of beach (GPS locations available elsewhere in this report). Figures 2 and 3 show results of the nest evaluations and incubation periods. The loggerhead nests produced 3359 hatchlings from 4729 eggs for an overall emergence success of 71% (48 evaluated nests). The hatchling production is a new record for loggerheads on our beach. Ten (10) loggerhead nests laid close to the water and one laid near a storm drain were moved to a higher elevation nearby within 12 hours of deposition to protect the eggs from flooding. The relocated nests had an overall emergence success of 68% compared to 72% for the in situ nests. Average nest size was 99 eggs (range 65 to 153), and average incubation period was 62 days (range 53 to 82). Regarding leatherback nesting, none of the four nests hatched. They were excavated after incubating for at least 90 days, and examination of the eggs revealed no evidence of embryonic development. All appeared infertile. Based on our monitoring, we are confident that no harm came to the nests while incubating, such as surf flooding or predator intrusion. Average leatherback nest size was 110 eggs (range 102 to 116). No nesting turtles were tagged this year. Tables 1-5 and Attachments 1-2 provide detailed information on each nest and false crawl, including the location and date found. Note that our final loggerhead nest was found at Pinnacle Port Condominium on October 26. This nest was missed by the morning turtle surveys and discovered from unhatched eggs and dead hatchlings found on the beach after a period of high surf. The clutch was not found but was likely near the west end of the condo.

Stranding Activities. Six sea turtles stranded within the survey area between May and October (Table 6). Two were threatened loggerheads, one was an endangered green turtle, and three were endangered Kemp's ridley turtles. All but one were found dead on the beach or in the surf. A juvenile Ridley was caught by a fisherman at the M.B. Miller County Pier and taken to Gulf World where the hook was removed and the turtle released back into the Gulf. The number of strandings is typical for our survey area and significantly below the 14 strandings recorded last year.

Beachfront Lighting Affecting Hatchling Turtles. Artificial lights from beachfront development continue to be a serious threat to sea turtles on this urban beach. Results showed that lights affected 50% of loggerhead hatchlings that emerged at night (1450 of 2908). While most of the disoriented turtles were rescued by Turtle Watch personnel, some mortality occurred at several nests, the most severe of which was at nest 46, located at 19440 Front Beach Rd, where most of the 77 disoriented turtles were killed by predators (ghost crabs, dogs). Figure 4 shows that condo exterior lights were the largest contributor to hatchling disorientation incidents at 29%. Other significant contributors were urban glow (19%), street lights (14%), and parking lot lights (12%). Gulf Power placed shields on pole lights in the vicinity of some nests prior to hatching at the request of Turtle Watch. The shields reduced light spillover onto the beach and may have helped reduce disorientation from street lights. The combined hatchling disorientation rate of 50% is the lowest since 2013 when the lighting ordinances became effective within our survey area. However, closer examination of the emergence data shows that an unusually large number of nests hatched at dusk, during twilight hours after sunset but before complete darkness. Figure 5 shows the percentage of nests that hatched during the daytime (sunrise to sunset), dusk (up to 45 minutes after sunset), early evening (dusk to 11 pm), and late night (11 pm to sunrise). The results show that 19% our nests hatched at dusk when hatchlings benefited from residual sunset glow on the Gulf horizon. These turtles experienced much less disorientation (28%) than those emerging in complete darkness (56%). See Attachment 3 for more discussion on this subject, including methodology and copies of the disorientation reports.

Beachfront Lighting Affecting Adult Turtles. Nesting loggerheads became disoriented at 10% of the nests found this year (5 of 49 nests). Each of the incidents was assessed based on a wandering track found during the morning survey after the turtle had returned to the water. The most serious incident occurred at nest 29, located at 6617 Gulf Drive, where a loggerhead became disoriented after nesting and

crawled over 700 feet before entering the water, encountering numerous obstacles along the way. Figure 6 shows pictures of the exit track.

Beach Furniture Affecting Nesting Turtles. Nesting loggerheads encountered obstructions on the beach at night at 29% of the nests found this year (14 of 49 nests) and one false crawl. Referring to Table 7 and Figure 7, the obstructions were almost exclusively vendor-owned lounge chairs left on the beach at night, often in tightly spaced rows near the shoreline. These items pose numerous risks for nesting turtles. Rows of chairs can prevent the turtle from accessing the beach, forcing her to nest too close to the water. Four of the 14 nests where turtles encountered lounge chairs had to be moved to a higher spot nearby. These obstacles also can injure or disorient turtles while searching for a nesting site or returning to the water after nesting. The Leave No Trace ordinance should be amended to require stacking of vendor-maintained items at the base of the dune (or off the beach) nightly during the nesting season. No sea turtles encountered personal items such as canopies that are covered by the ordinance. See Attachment 4 for copies of the obstructed nesting attempt reports.

Beach Cleaning Coordination. The morning nesting surveys were adjusted this season to accommodate changes in beach cleaning by Coastal Parasail. The 17.6-mile survey area was divided into six equal-length zones, and mechanical raking was performed during May through August in two zones daily, Monday through Saturday, with no raking on Sunday. As required by state permit, raking must be performed during daylight hours after nesting surveys are completed. The surveys were expedited to allow maximum time for raking before service vendors and tourists began setting up their gear. This was done using additional survey personnel to monitor the zones at the east and west ends of the survey area. These areas were monitored on foot (zones 1 and 6) on days when raking occurred, while areas in between (zones 2-5) were checked by surveyors on all-terrain vehicles. Surveyors notified the beach cleaner by text message when zones were cleared or nests identified. Surveys normally were done by 7 am or earlier each morning.

Shorebird Monitoring Coordination. Turtle surveyors coordinated with FWC personnel who surveyed the beach for shorebird nesting activity and posted nesting areas. Shorebird monitoring was funded by the National Fish and Wildlife Foundation through a grant awarded to FWC. Three locations within the survey area were posted to protect nesting least terns and black skimmers: Sunnyside Beach, Bid-a-Wee Beach, and an undeveloped beachfront parcel near the Chateau Motel. Figure 8 shows one of the posted sites. FWC surveyed the beach twice per week to monitor posted nesting areas and look for new shorebird nesting sites. Turtle surveyors also checked the posted sites and reported any problems to FWC. The Chateau site was the most successful, producing chicks from 11 tern nests. The least successful site was at Sunnyside Beach, where 10 tern nests were destroyed by unleashed dogs. Skimmers abandoned a nest at the Chateau Motel and another at Bid-a-Wee Beach after unleashed dogs entered the posted areas. Dogs running free on the beach were frequently observed by FWC and turtle surveyors, often with owners nearby. Tourists and residents need to be educated about local regulations prohibiting unleashed dogs on the beach, and enforcement by local law enforcement agencies should be increased during early morning hours (6-8 am) when violations are most prevalent.

Other Management Issues. (1) Only eight nests experienced flooding from high surf, and four of the washed nests produced hatchlings. The lack of severe storms contributed to the record hatchling production. (2) Beach driving is prevalent throughout the survey area and occurs day and night, posing numerous risks to sea turtles and shorebirds. Authorized nighttime beach driving by police and emergency vehicles should follow Best Management Practices developed by state and federal agencies which recommend use of red-filtered headlights and low-pressure tires to avoid producing ruts. Tire ruts affected hatchlings at five nests. The tractor/trailer that collects garbage on the beach uses a dragline to smooth ruts but does not appear to be fully effective. (3) No poaching or predator incidents occurred this year, other than some minor nest vandalism and a few nests depredated by ghost crabs.

If you have questions, please contact me during business hours at (850) 234-4643 or at pcbturtle@yahoo.com. Thanks.

Sincerely,

KENNARD WATSON

Kennard Watson
Turtle Watch Coordinator

cc: Lisa Lehnhoff (FWS Panama City), Robbin Trindell (FWC Tallahassee), Beth Brost (FWRI St Petersburg), Kimberly Middlebrooks (FWC Panama City), Robert Majka Jr. (Bay County Manager), Martin Jacobson (Community Development Manager), Kathi Ashman (Bay County Code Enforcement), Jenny McNemar (Bay County Code Enforcement), Mario Gisbert (Panama City Beach City Manager), James Tindle (Panama City Beach Code Enforcement), Lisa Armbruster (Sustainable Beaches), Linda Fitzhugh (RMA), Jeff Whitton (RMA), Secret Holmes (Gulf World), Amber Beddingfield (Gulf Power), Bonnie Samuelson (Florida Audubon), Ron Rogers (Coastal Parasail)

Attachments: (1) Nesting reports, (2) Nest productivity worksheets, (3) Disorientation incident reports, (4) Obstructed nesting attempt reports.

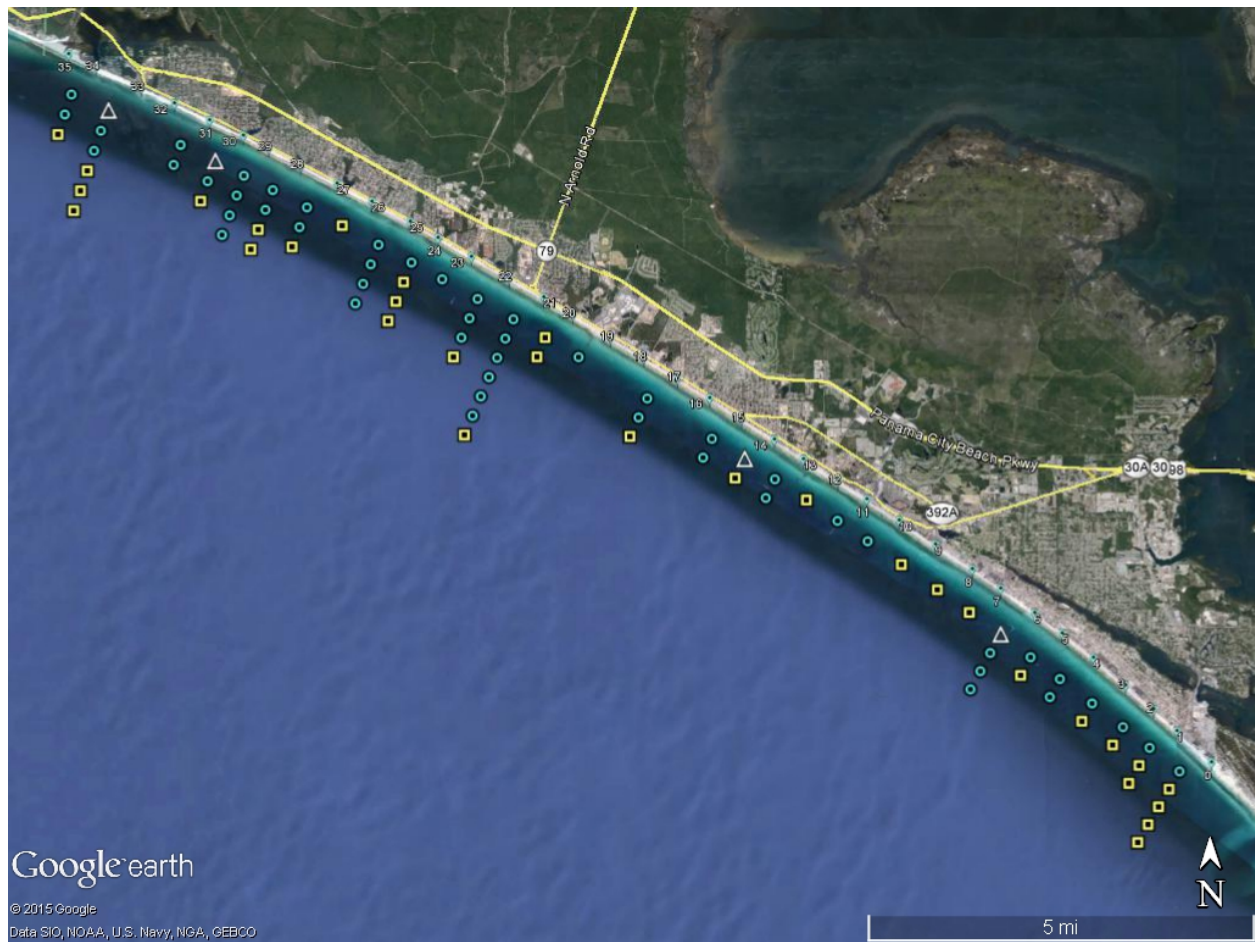
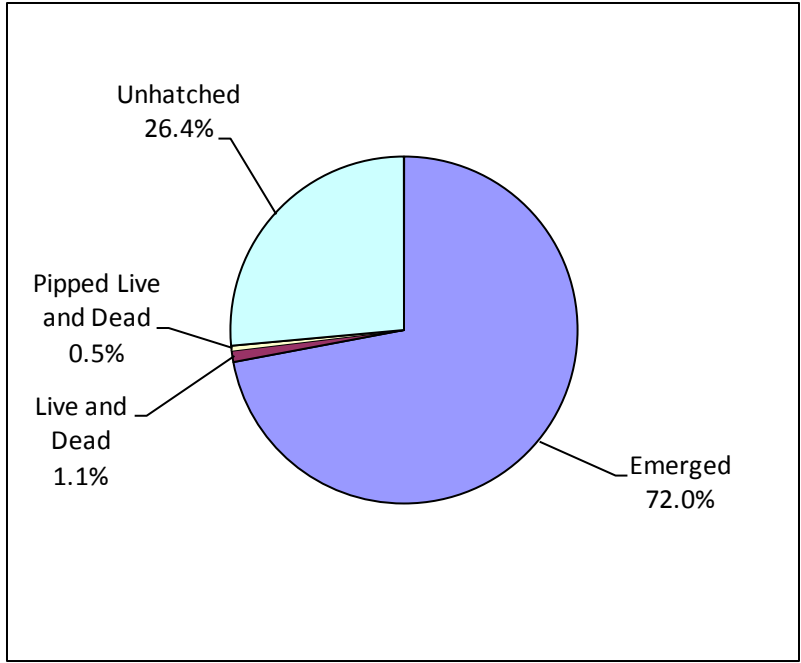
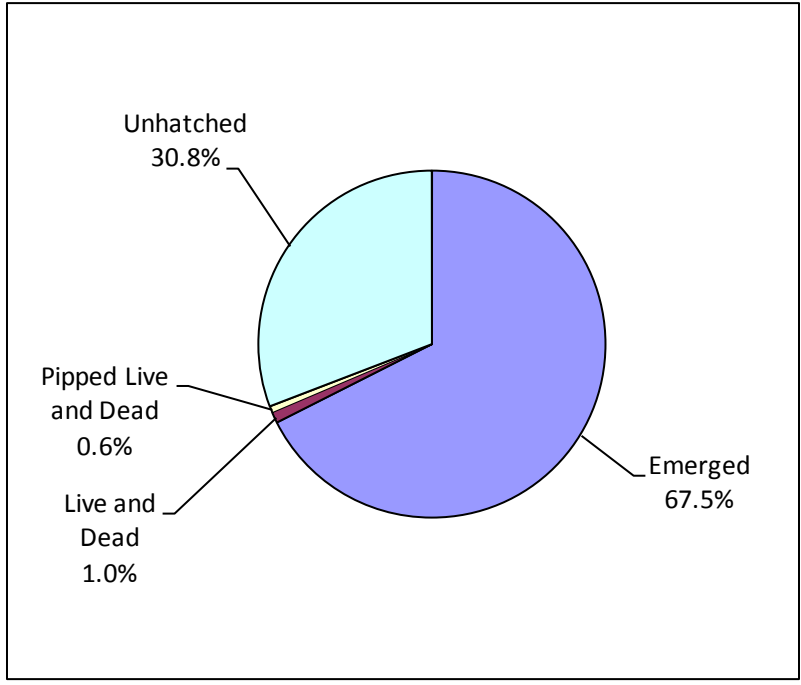


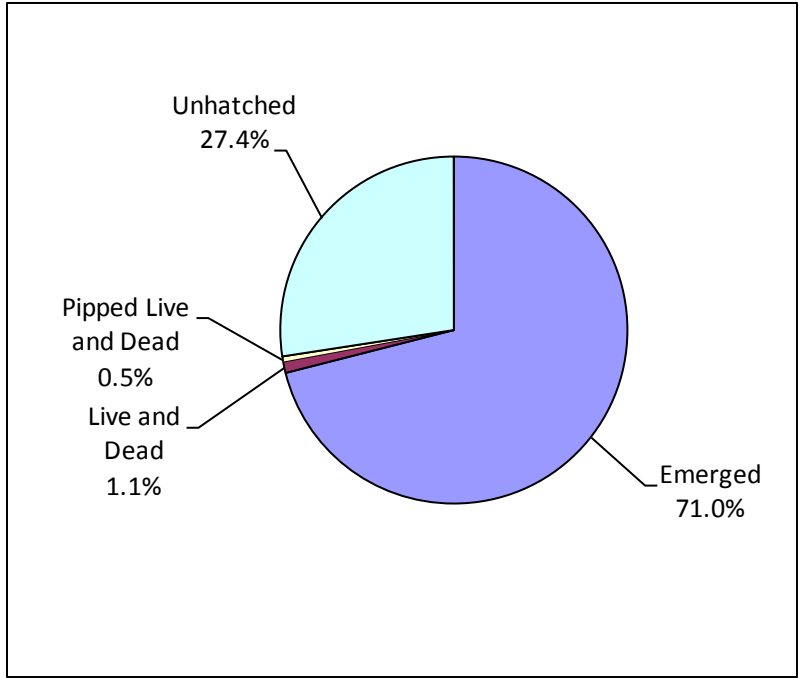
Figure 1. Sea turtle nest and false crawl locations on Panama City Beach in 2015. Each column of symbols represents crawls on 1/2-mile beach segment (circles loggerhead nests, squares loggerhead false crawls, triangles leatherback nests)



(a) In situ loggerhead nests (37)



(b) Relocated loggerhead nests (11)



(c) All loggerhead nests (48)

Figure 2. Emergence success for loggerhead nests on Panama City Beach in 2015 (48 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.

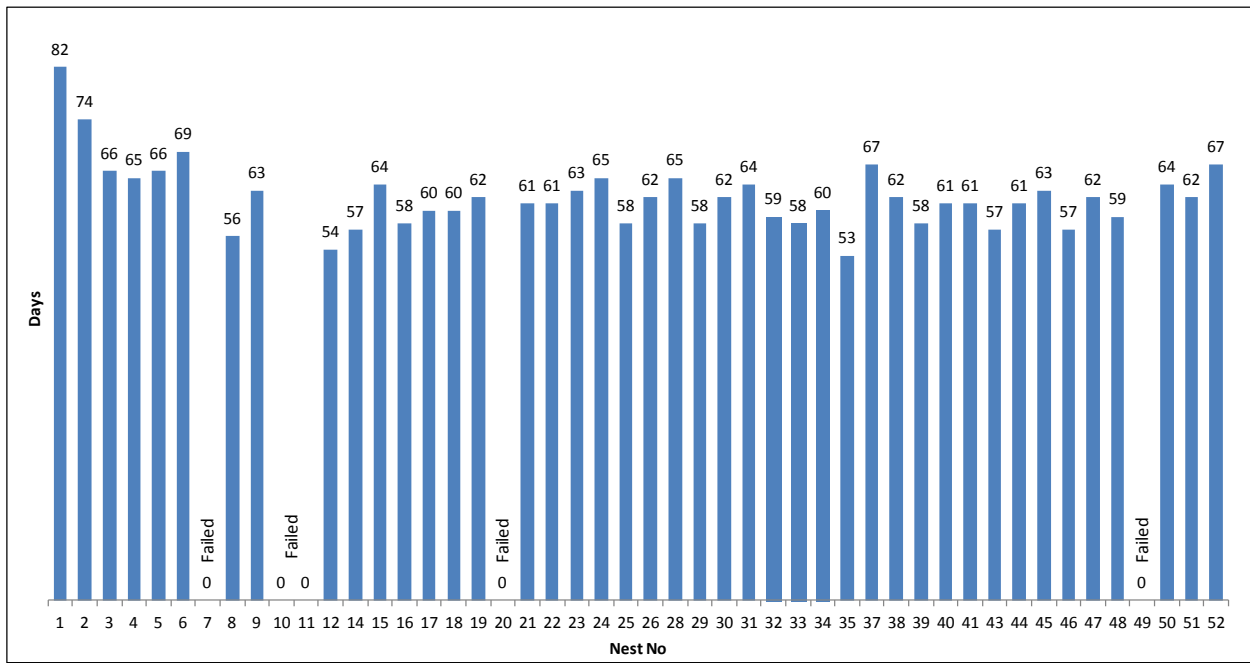


Figure 3. Loggerhead incubation periods on Panama City Beach in 2015 (43 nests).

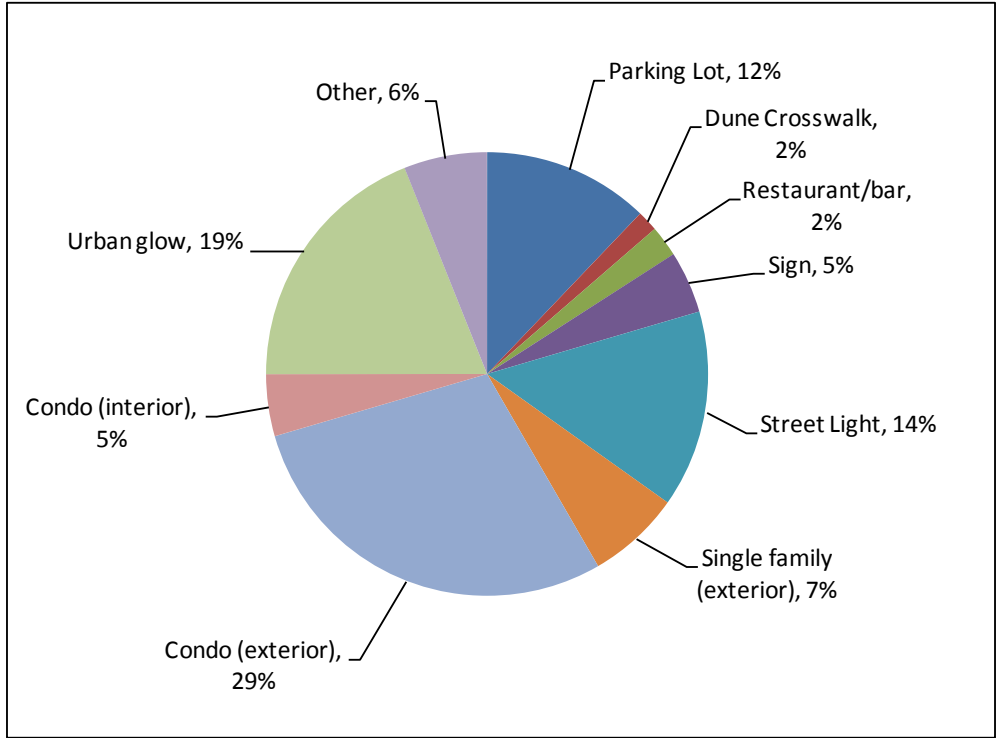


Figure 4. Lights contributing to loggerhead hatchling disorientation incidents on Panama City Beach in 2015 (22 nests).

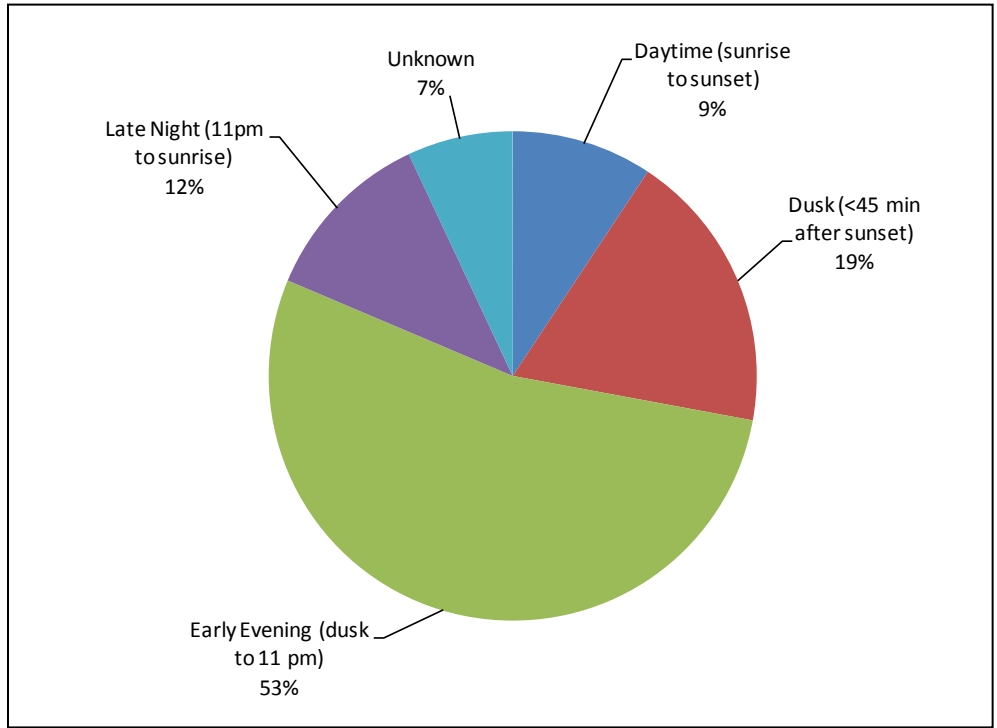


Figure 5. Time of day for loggerhead main hatchling emergence on Panama City Beach in 2015 (43 nests).



Figure 6. Pictures of exit track at nest 29 where loggerhead became disoriented after nesting and wandered over 700 feet before entering the water.



Figure 7. Examples of obstructed loggerhead nesting attempts in 2015.



Figure 8. Black skimmers in posted shorebird nesting area at Bid-a-Wee Beach in 2015 (picture courtesy of Kim Middlebrooks FWC).

Table 1. Loggerhead nest locations and hatching information on Panama City Beach in 2015.
Latitude/longitude data were obtained from a GPS unit.

Nest No. Note 1	Address	In Situ or Relocated	Date Laid	Date Hatch	Incubation (days)	Eggs	Emerge	Latitude	Longitude
1	Townhouse, 22405 Front Beach Rd	In situ	21-Apr	11-Jul	82	126	104	30.25723	-85.96621
2	Beachside Resort, 21905 Front Beach Rd	In situ	12-May	24-Jul	74	69	56	30.25412	-85.95959
3	Seascape Inn, 14929 Front Beach Rd	Relocated	18-May	22-Jul	66	135	124	30.20659	-85.86185
4	House, 21312 Front Beach Rd	In situ	27-May	30-Jul	65	153	135	30.250879	-85.95117
5	House, 19989 Front Beach Rd	In situ	28-May	1-Aug	66	122	59	30.242439	-85.933243
6	Whispering Seas Condo, 8610 Surf Dr	In situ	2-Jun	9-Aug	69	73	68	30.16532	-85.78957
7	Beachcomber by the Sea Motel, 17101 Front Beach Rd	In situ	3-Jun	Failed	Failed	91	0	30.22183	-85.89032
8	House, 5135 Gulf Dr	In situ	4-Jun	29-Jul	56	96	90	30.14101	-85.75528
9	Palazzo Condo, 17281 Front Beach Rd	In situ	7-Jun	8-Aug	63	81	73	30.22466	-85.89603
10	House, 8208 Surf Dr	In situ	8-Jun	Failed	Failed	92	0	30.16206	-85.78458
11	House, 21018 Front Beach Rd	In situ	10-Jun	Failed	Failed	100	0	30.24899	-85.94745
12	Harpoon Harry's, 12627 Front Beach Rd	Relocated	15-Jun	7-Aug	54	105	84	30.19233	-85.83605
14	Days Inn, 12818 Front Beach Rd	Relocated	17-Jun	12-Aug	57	69	68	30.19350	-85.83807
15	House, 16407 Front Beach Rd	In situ	17-Jun	19-Aug	64	126	115	30.21676	-85.8806
16	Sterling Beach Condo, 6627 Thomas Dr	In situ	18-Jun	14-Aug	58	98	87	30.15277	-85.77065
17	Moonspinner Condo, 4425 Thomas Dr	In situ	19-Jun	17-Aug	60	87	72	30.13407	-85.74684
18	Edgewater Beach Resort, 11212 Front Beach Rd	In situ	21-Jun	19-Aug	60	94	69	30.18480	-85.82282
19	Townhouse, 17327 Front Beach Rd	In situ	21-Jun	21-Aug	62	109	71	30.22538	-85.89758
20	House, 21000	Relocated	21-Jun	Failed	Failed	109	0	30.24835	-85.94604

	Front Beach Rd								
21	Aquavista Condo, 17155 Front Beach Rd	In situ	22-Jun	21-Aug	61	108	98	30.22262	-85.89197
22	Palazzo Condo, 17281 Front Beach Rd	In situ	23-Jun	22-Aug	61	81	68	30.22443	-85.89571
23	House, 21320 Front Beach Rd	In situ	23-Jun	24-Aug	63	113	100	30.25085	-85.95149
24	Laguna Beach Christian Retreat, 20016 Front Beach Rd	In situ	24-Jun	27-Aug	65	72	11	30.24413	-85.93672
25	House, 6715 Gulf Dr	Relocated	25-Jun	21-Aug	58	84	80	30.15373	-85.77217
26	Townhouse, 22425 Front Beach Rd	In situ	25-Jun	25-Aug	62	103	83	30.257334	-85.96711
28	Townhouse, 17135 Front Beach Rd	In situ	25-Jun	28-Aug	65	65	26	30.22214	-85.89085
29	House, 6617 Gulf Dr	In situ	25-Jun	21-Aug	58	98	94	30.152968	-85.770922
30	Townhouse, 17327 Front Beach Rd	In situ	26-Jun	26-Aug	62	91	84	30.225432	-85.897748
31	House, 19300 Front Beach Rd	In situ	27-Jun	29-Aug	64	87	72	30.14257	-85.55360
32	House, 6709 Gulf Dr	In situ	29-Jun	26-Aug	59	102	96	30.15376	-85.77206
33	Regency Condo, 5801 Thomas Dr	In situ	30-Jun	26-Aug	58	126	116	30.14593	-85.76175
34	Majestic Beach Resort, 10901 Front Beach Rd	In situ	1-Jul	29-Aug	60	88	17	30.18035	-85.81509
35	House, 19008 Front Beach Rd	Relocated	2-Jul	23-Aug	53	80	58	30.23615	-85.91954
37	Townhouse, 8517 Surf Dr	In situ	4-Jul	8-Sep	67	102	95	30.16475	-85.78857
38	Blue Horizon Lodge, 19016 Front Beach Rd	Relocated	4-Jul	3-Sep	62	93	4	30.23613	-85.91946
39	Aquavista Condo, 17155 Front Beach Rd	In situ	7-Jul	2-Sep	58	114	76	30.22277	-85.89234
40	Landmark Condo, 17501 Front Beach Rd	In situ	8-Jul	6-Sep	61	91	78	30.22861	-85.90405
41	Townhouse, 20647 Front Beach Rd	In situ	9-Jul	7-Sep	61	105	90	30.24605	-85.94083
43	Splash Condo, 17739 Front Beach Rd	In situ	16-Jul	10-Sep	57	97	89	30.23204	-85.91089
44	En Soleil Resort,	Relocated	17-Jul	15-Sep	61	75	28	30.15877	-85.77953

	7509 Thomas Dr									
	House, 344									
45	Beachside Dr, Carillon Beach	In situ	17-Jul	17-Sep	63	99	94	30.26263	-85.97991	
	Carousel Store,									
46	19440 Front Beach Rd	In situ	20-Jul	14-Sep	57	89	77	30.23846	-85.92410	
	Casa Loma Motel,									
47	13615 Front Beach Rd	Relocated	22-Jul	21-Sep	62	87	75	30.19886	-85.84766	
	House, 17757									
48	Front Beach Rd	Relocated	23-Jul	19-Sep	59	121	103	30.23356 Note 2	-85.91372 Note 2	
	Sunnyside Beach and Tennis Resort, 22400									
49	Front Beach Rd	In situ	23-Jul	Failed	Failed	106	0	30.25612	-85.96449	
	Sunrise Beach									
50	Condo, 14825 Front Beach Rd	In situ	24-Jul	25-Sep	64	106	75	30.20667	-85.86201	
	Pinnacle Port									
51	Condo, 23223 Front Beach Rd	In situ	24-Jul	23-Sep	62	112	107	30.26647	-85.9893	
	House, 388									
52	Beachside Dr, Carillon Beach	Relocated	11-Aug	16-Oct	67	99	90	30.26270	-85.98032	
	Pinnacle Port									
53	Condo, 23223 Front Beach Rd	In situ	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	

Note 1: Nests numbered in order they are found. Excludes four leatherback nests (13, 27, 36, 42).

Note 2: Unable to obtain GPS of in situ nest because nest marks were erased. Latitude and longitude are for relocated nest.

Note 3: Unhatched eggs and dead hatchlings discovered on beach at Pinnacle Port Condo on 26 Oct 2015. Could not find nest which was missed by surveys.

Table 2. Leatherback nest locations and hatching information on Panama City Beach in 2015.
Latitude/longitude data were obtained from a GPS unit.

Nest No.	Address	In Situ or Relocated	Date Laid	Date Hatch	Incubation (days)	Eggs	Emerge	Latitude	Longitude
13	House, 8318 Surf Dr	In situ	16-Jun	Failed	Failed	102	0	30.16359	-85.78626
27	House, 13403 Oleander Dr	In situ	25-Jun	Failed	Failed	116	0	30.19769	-85.84550
36	House, 21507 Front Beach Rd	In situ	3-Jul	Failed	Failed	112	0	30.25189	-85.95353
42	House, 280 Beachside Dr, Carillon Beach	In situ	11-Jul	Failed	Failed	108	0	30.26428	-85.98431

Table 3. Loggerhead false crawl locations and crawl dates on Panama City Beach in 2015.
Latitude/longitude data were obtained from a GPS unit.

Crawl No.	Address	Crawl Date	Latitude	Longitude
1	House, 21819 Front Beach Rd	12-May	30.25344	-85.95818
2	Summerhouse Condo, 6505 Thomas Dr	30-May	30.15127	-85.76897
3	Seychelles Beach Resort, 5115 Gulf Dr	3-Jun	30.14010	-85.75424
4	Summit Condo, 8743 Thomas Dr	4-Jun	30.16767	-85.79369
5	House, 104 Beachside Ct, Carillon Beach	6-Jun	30.26209	-85.97861
6	Store, 17840 Front Beach Rd	7-Jun	30.23413	-85.91553
7	House, 19901 Front Beach Rd	7-Jun	30.24063	-85.92938
8	Sugar Sands Motel, 20723 Front Beach Rd	7-Jun	30.24604	-85.94135
9	Townhouse, 17867 Front Beach Rd	9-Jun	30.23443	-85.91625
10	Sugar Sands Motel, 20723 Front Beach Rd	9-Jun	30.24713	-85.94347
11	Tidewater Condo, 16819 Front Beach Rd	10-Jun	30.21955	-85.88612
12	House, 13315 Oleander Dr	12-Jun	30.19739	-85.84523
13	Legacy by the Sea Condo, 15325 Front Beach Rd	17-Jun	30.20923	-85.86691
14	Pinnacle Port Condo, 23223 Front Beach Rd	18-Jun	30.26611	-85.98864
15	Aqua Vista Condo, 17155 Front Beach Rd	19-Jun	30.22315	-85.89320
16	Treasure Island Condo, 5004 Thomas Dr	19-Jun	30.13940	-85.75347
17	Townhouse, 7711 Surf Dr	22-Jun	30.15843	-85.77906
18	House, 20425 Front Beach Rd	22-Jun	30.24446	-85.93759
19	Regency Condo, 5801 Thomas Dr	24-Jun	30.14690	-85.76315
20	House, 17883 Front Beach Rd	25-Jun	30.23473	-85.91688
21	Boardwalk Beach Resort, 9450 Thomas Dr	26-Jun	30.16994	-85.79736
22	Sea Side Villas Condo 4701 Thomas Dr	29-Jun	30.13585	-85.74902
23	House, 5207 Gulf Dr	29-Jun	30.14144	-85.75604
24	House, 17485 Front Beach Rd	7-Jul	30.22785	-85.90273
25	Sterling Reef Condo, 12011 Front Beach Rd	7-Jul	30.18810	-85.82905
26	Tidewater Condo, 16819 Front Beach Rd	15-Jul	30.22025	-85.88689
27	Twin Palms Resort, 10519 Front Beach Rd	17-Jul	30.17815	-85.81144
28	House, 344 Beachside Dr, Carillon Beach	19-Jul	30.26232	-85.97950
29	Moonspinner Condo, 4425 Thomas Dr	22-Jul	30.13473	-85.74770
30	Seaside Villas, 4701 Thomas Dr	31-Jul	30.13588	-85.74893
31	House, 388 Beachside Dr, Carillon Beach	11-Aug	30.26171	-85.97739

Table 4. Loggerhead nest excavation data on Panama City Beach in 2015. 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.

Nest No.	Eggs	Emerged	Live in Nest	Dead in Nest	Pipped Live	Pipped Dead	Unhatch	Emergence Success	Relocated or in situ
1	126	104	4	0	0	0	18	0.83	In situ
2	69	56	6	0	1	1	5	0.81	In situ
3	135	124	3	1	0	2	5	0.92	Relocated
4	153	135	0	0	0	0	18	0.88	In situ
5	122	59	0	0	0	0	63	0.48	In situ
6	73	68	0	0	0	0	5	0.93	In situ
7	91	0	0	0	0	0	91	0.00	In situ
8	96	90	0	0	0	0	6	0.94	In situ
9	81	73	1	0	0	0	7	0.90	In situ
10	92	0	1	0	0	0	91	0.00	In situ
11	100	0	0	0	0	0	100	0.00	In situ
12	105	84	3	0	0	3	15	0.80	Relocated
14	69	68	0	0	0	0	1	0.99	Relocated
15	126	115	0	1	0	0	10	0.91	In situ
16	98	87	0	0	0	1	10	0.89	In situ
17	87	72	0	0	0	0	15	0.83	In situ
18	94	69	1	0	0	0	24	0.73	In situ
19	109	71	1	0	0	0	37	0.65	In situ
20	109	0	0	0	0	0	109	0.00	Relocated
21	108	98	0	0	0	2	8	0.91	In situ
22	81	68	0	0	0	0	13	0.84	In situ
23	113	100	3	3	0	1	6	0.88	In situ
24	72	11	0	0	0	0	61	0.15	In situ
25	84	80	0	0	0	1	3	0.95	Relocated
26	103	83	0	0	0	0	20	0.81	In situ
28	65	26	0	0	0	0	39	0.40	In situ
29	98	94	0	0	0	0	4	0.96	In situ
30	91	84	0	0	0	0	7	0.92	In situ
31	87	72	1	1	2	0	11	0.83	In situ
32	102	96	0	0	0	0	6	0.94	In situ
33	126	116	0	1	0	2	7	0.92	In situ
34	88	17	0	0	3	0	68	0.19	In situ
35	80	58	0	0	0	0	22	0.73	Relocated
37	102	95	1	0	0	0	6	0.93	In situ
38	93	4	0	0	0	0	89	0.04	Relocated
39	114	76	12	0	1	1	24	0.67	In situ
40	91	78	2	0	0	0	11	0.86	In situ
41	105	90	0	0	1	0	14	0.86	In situ
43	97	89	0	0	0	0	8	0.92	In situ
44	75	28	0	0	0	0	47	0.37	Relocated
45	99	94	0	0	0	0	5	0.95	In situ
46	89	77	0	0	0	0	12	0.87	In situ
47	87	75	0	0	0	0	12	0.86	Relocated
48	121	103	1	0	0	0	17	0.85	Relocated
49	106	0	0	0	0	0	106	0.00	In situ
50	106	75	0	0	0	0	31	0.71	In situ

51	112	107	0	0	0	1	4	0.96	In situ
52	99	90	3	0	0	0	6	0.91	Relocated
TOTAL	4729	3359	43	7	8	15	1297	0.71	

Table 5. Leatherback nest excavation data on Panama City Beach in 2015. 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.

Nest No.	Eggs	Emerged	Live in Nest	Dead in Nest	Pipped Live	Pipped Dead	Unhatch	Emergence Success	Relocated or in situ
13	102	0	0	0	0	0	102	0	In situ
27	116	0	0	0	0	0	116	0	In situ
36	112	0	0	0	0	0	112	0	In situ
42	108	0	0	0	0	0	108	0	In situ
TOTAL	438	0	0	0	0	0	438	0	

Table 6. Sea turtle strandings on Panama City Beach during 1 May to 31 October 2015. Latitude/longitude data were obtained from a GPS unit.

No.	Date	Location	Latitude	Longitude	Species	Shell Length (inches)	Final Disposition
1	18-May	Public Access 15 off Gulf Dr	30.15464	-85.77294	Loggerhead	38.7	NMFS
2	20-May	Moondrifter Condo, 8815 Thomas Dr	30.16887	-85.79568	Green	35.4	Disposed in landfill
3	24-May	M.B. Miller County Pier	30.18956	-85.83160	Kemp's ridley	18.7	Gulf World
4	26-May	Holiday Inn SunSpree, 11127 Front Beach Rd	30.18213	-85.81844	Kemp's ridley	26	NMFS
5	15-Jul	11979 Front Beach Rd	30.24145	-85.93172	Loggerhead	33.7	Disposed in landfill
6	6-Aug	Holiday Inn SunSpree, 11127 Front Beach Rd	30.18194	-85.81838	Kemp's ridley	20.8	NMFS

Table 7. Obstacles encountered by loggerheads during nesting attempts on Panama City Beach in 2015. Latitude/longitude data were obtained from a GPS unit.

Crawl No.	Crawl Type	Address	Latitude	Longitude	Incident Date	Obstacles Encountered
2	Nest	Beachside Resort, 21905 Front Beach Rd	30.25412	-85.95959	12-May	lounge chairs
3	Nest	Seascape Inn, 14929 Front Beach Rd	30.20659	-85.86185	18-May	lounge chairs
6	Nest	Whispering Seas Condo, 8610 Surf Dr	30.16532	-85.78957	1-Jun	lounge chairs
8	Nest	House, 5135 Gulf Dr	30.14101	-85.75528	4-Jun	lounge chairs
9	Nest	Palazzo Condo, 17281 Front Beach Rd	30.22466	-85.89603	7-Jun	lounge chairs
12	Nest	Harpoon Harry's, 12627 Front Beach Rd	30.19233	-85.83605	15-Jun	lounge chairs
14	Nest	Days Inn, 12818 Front Beach Rd	30.19350	-85.83807	17-Jun	lounge chairs
21	Nest	Aquavista Condo, 17155 Front Beach Rd	30.22262	-85.89197	22-Jun	lounge chairs
22	Nest	Palazzo Condo, 17281 Front Beach Rd	30.22443	-85.89571	22-Jun	lounge chairs
29	Nest	House, 6617 Gulf Dr	30.15297	-85.77092	25-Jun	lounge chairs, flag pole, vendor box, condo sign
33	Nest	Regency Condo, 5801 Thomas Dr	30.14593	-85.76175	30-Jun	lounge chairs, escarpment
38	Nest	Blue Horizon Lodge, 19016 Front Beach Rd	30.23613	-85.91946	4-Jul	tent, umbrellas, flag pole
40	Nest	Landmark Condo, 17501 Front Beach Rd	30.22861	-85.90405	8-Jul	lounge chairs
43	Nest	Splash Condo, 17739 Front Beach Rd	30.23204	-85.91089	16-Jul	lounge chairs
30	False crawl	Seaside Villas, 4701 Thomas Dr	30.13588	-85.74893	31-Jul	lounge chairs

Attachment 1

Nesting reports

5 November 2015

Prepared by:

Kennard Watson
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Prepared for:

Dan Rowe
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32413



**FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
FISH AND WILDLIFE RESEARCH INSTITUTE
ANNUAL REPORT FOR THE STATEWIDE NESTING BEACH SURVEY, 2015**

1. PRINCIPAL PERMIT HOLDER INFORMATION

Principal Permit Holder:		Permit Number:	
Organization:			
Address:			
County:		Email Address:	
Day Telephone (include area code):		Night Telephone:	
Beach Name:			
Point of Contact & Phone #		Email Address for Point of Contact: (if different from above)	

2. GENERAL SURVEY INFORMATION

Survey Boundary Information: Please describe survey boundaries geographically. If boundaries have changed, please enter the new boundaries in the space below. Be specific and use known landmarks that can be found on a map (or include a marked map).

Beginning Survey Boundary:			
Ending Survey Boundary:			

Beach Length: KM (miles):		Was this the same survey area as last year? (Y or N)	
---------------------------	--	---	--

IF NO, please explain the specific differences, new survey length, AND why the survey area changed:

Start Date of Survey (mm/dd/yy):		End Date of Survey (mm/dd/yy):	
Time of Day Surveyed: Start (include AM or PM)		Finish (include AM or PM)	
Number of Days Per Week Surveyed:			
Total # of Days Surveyed in 2015 (this is the total # of days between start and end dates MINUS any missed days):			

If you did not survey 7 days per week throughout the nesting season, please describe your survey schedule (how many days per week, what days of the week). It is recommended to adhere to a fixed schedule if 7 days/week is not possible (e.g., 5 days/week every week), and these days would preferably be consecutive.

If you did not survey 7 days per week, how were tracks counted on the day that surveys resumed after a missed day?

Were all non-nesting crawls (false crawls) counted during your survey? Yes or No	
---	--

How many people were involved in surveying your nesting beach this season?	
--	--

3. NESTING BEACH MANAGEMENT INFORMATION

Do you collect GPS data for your nests? (Y / N)		Do you save (electronic or paper files) these data? (Y/N)	
If nests were RELOCATED, were they relocated Individually (Ex: simply moving the nest directly landward of the original location or otherwise maintaining natural nest spacing) or in a Group with other relocated nests (i.e., self-releasing and/or restraining hatchery)?			
Please give reasons for relocating nests. (Example: nest located below high tide line, in high foot traffic area, etc.)			
If a HATCHERY was used, please give reasons AND specific location:			
Do you mark nests for inventory to determine hatching success?		Yes or No	
If yes , how many nests were inventoried in 2015? (Note: data for all inventoried nests must be submitted on the Nest Inventory spreadsheet)		Yes or No	
Do you participate in FWRI's Nest Productivity Assessment?		Yes or No	

4. FATE OF NEST INFORMATION (for marked and unmarked nests)

How many nests were negatively affected by predators other than humans during the course of the season? Note: this includes both partially and completely predated nests		
List all non-human predators that were documented predated nests this season:		
If predator control methods <i>other than screening/caging</i> were employed, please describe below:		
How many nests were negatively affected by the nesting female or another nesting sea turtle?		
How many nests were negatively affected by roots (i.e., <i>damaged eggs, impeded hatchling emergence</i>) ?		
How many nests were negatively affected by erosion, accretion, inundation, and storm-related events PRIOR to hatching? <i>Note: this <u>does not</u> include stake loss.</i>		
Please give details:		
How many nests were taken or disturbed by humans (Example: nest dug into, eggs removed, etc.)? <i>Note: this <u>does not</u> include stake removal.</i>		
Please give details:		
If human disturbances occurred, were they reported to law enforcement?		Yes or No
How many disorientation events occurred on this survey area in 2015?		
If disorientation events occurred, have all disorientation reports been submitted to FWC?		Yes or No

I certify the above information to be true and accurate to the best of my knowledge. (type in name & date)

	Date:
--	--------------



**FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION
FISH AND WILDLIFE RESEARCH INSTITUTE
ANNUAL REPORT FOR THE STATEWIDE NESTING BEACH SURVEY, 2015**

1. PRINCIPAL PERMIT HOLDER INFORMATION

Principal Permit Holder:	Permit Number:
Beach Name:	

2. GENERAL NESTING DATA for All nests on this survey area (Marked, Unmarked, & Misidentified Nests)

	<i>C. caretta</i> (Loggerhead)	<i>C. mydas</i> (Green Turtle)	<i>D. coriacea</i> (Leatherback)	<i>E. imbricata</i> (Hawksbill)	<i>L. kempii</i> (Kemp's Ridley)
Total # of Nests					
Total # of Non-Nesting Emergences (False Crawls)					
Date (mm/dd/yy) of First Documented Nest					
Date (mm/dd/yy) of Last Documented Nest					

Total # of Nests Prior to 15 May:					
Total # of Nests After 31 Aug:					

Comments:	
------------------	--

In the spaces below, please provide information on the initial nest treatment (e.g., in situ, screened, relocated, etc.). For example, if the initial treatment was in situ with no protection, it should be included in "(a) # of Nests left in place without additional protection" even if you later relocate the nest due to erosion.

Nest Data for nests left in place (where the turtle deposited the clutch): These nests may be left without additional protection, screened with a self-releasing flat screen, or covered with self-releasing or restraining above-ground cages.

Record the number of nests by category and species. For each species, rows a+b+c+d should equal the total number of nests left in place. Please check to make sure this is the case.	<i>C. caretta</i> (Loggerhead)	<i>C. mydas</i> (Green Turtle)	<i>D. coriacea</i> (Leatherback)	<i>E. imbricata</i> (Hawksbill)	<i>L. kempii</i> (Kemp's Ridley)
TOTAL # OF NESTS LEFT IN PLACE (a + b + c + d)					
(a) # of Nests left in Place without Additional Protection					
(b) # of Nests left in Place with Self-Releasing Flat Screen					
(c) # of Nests left in Place with Self-Releasing Cage					
(d) # of Nests left in Place with Restraining Cage					

Relocated Nest Data: Relocated nests are those where the clutch is removed from its original site of deposition and reburied at another site. These nests may be relocated to individual sites or as a group to a hatchery (a permanent or semi-permanent fenced or caged area where many nests are re-buried as a group). As with nests left in place, relocated nests may be left without additional protection, covered with self-releasing flat screen, or covered with a self-releasing for restraining above-ground cages. Hatcheries may be self-releasing (hatchlings escape unaided) or restraining (hatchlings cannot escape unaided).

Record the number of nests by category and species. For each species, rows a+b+c+d+e+f should equal the total number of relocated nests. Please check to make sure this is the case.	<i>C. caretta</i> (Loggerhead)	<i>C. mydas</i> (Green Turtle)	<i>D. coriacea</i> (Leatherback)	<i>E. imbricata</i> (Hawksbill)	<i>L. kempii</i> (Kemp's Ridley)
TOTAL # OF NESTS RELOCATED (a + b + c + d + e + f)					
(a) # of Relocated Nests without Additional Protection					
(b) # of Relocated Nests with Self-Releasing Flat Screen					
(c) # of Relocated Nests with Self-Releasing Cage					
(d) # of Relocated Nests with Restraining Cage					
(e) # of Relocated Nests to Self-Releasing Hatchery					
(f) # of Relocated Nests to Restraining Hatchery					

Attachment 2

Nest productivity worksheets

5 November 2015

Prepared by:

Kennard Watson
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Prepared for:

Dan Rowe
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32413

Attachment 3

Disorientation incident reports and cover letter

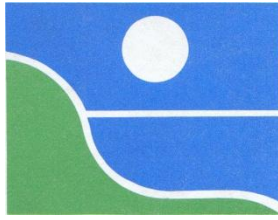
5 November 2015

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Prepared for:

Dan Rowe
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32413



St. Andrew Bay
RESOURCE MANAGEMENT ASSOCIATION
Post Office Box 15028
Panama City, Florida 32406
www.sabrma.org

2 November 2015

Kennard Watson, Turtle Watch Coordinator
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Robbin Trindell, Ph.D.
Imperiled Species Management
Florida Fish and Wildlife Conservation Commission
620 South Meridian Street
Tallahassee, Florida 32399-1600

Dear Robbin:

This letter summarizes results of disorientation incidents during the 2015 nesting season on Panama City Beach (Permit 038). We estimated a combined disorientation rate of 50% for hatchlings that emerged from 38 loggerhead nests that hatched at night. Additionally, five adult female loggerheads were disoriented on the beach while returning to the water after nesting. These incidents were documented in 22 hatchling reports and five adult nesting turtle reports. All have been provided to local code enforcement with copies to the Florida Fish and Wildlife Conservation Commission (FWC). The following provides detailed results and includes a description of the survey area, methodology used to quantify disorientations, and types of lights contributing to disorientation incidents.

Survey Area, Nest Marking, and Monitoring Procedure. The survey area extends 17.6 miles between St. Andrews State Park to Camp Helen State Park. This entire area is under two lighting ordinances, passed in 2009 by the City of Panama City Beach and Bay County. The ordinances became effective in 2013. We found 49 loggerhead nests here in 2015. All but one were marked with four stakes, orange survey tape, and an informational sign with the nest number. We checked the marked nests for signs of emergence each morning (6-8 am), early evening (7-9 pm), and late night (10-12 pm). The early morning checks were done by the nesting surveyors, while volunteers performed the early evening and late-night checks. The start date for nighttime monitoring was determined from the measured sand temperature in the vicinity of the nest (typically after incubation day 50). Nighttime monitoring of the nests is not required by our permit but is performed due to the serious lighting problems in our survey area.

Method to Quantify Hatchling Disorientations. We submit disorientation reports only for main emergences and not for small numbers of hatchlings that may emerge afterward. All reports are submitted electronically to local code enforcement officers and FWC during the season, usually within three days of the incident. Most incidents are documented during night surveys by volunteers who are at the nest when the hatchlings emerge or arrive shortly after the emergence while hatchlings are still on the beach and tracks are fresh. Volunteers collect disoriented hatchlings and estimate the number of turtles reaching the water by observing the animals or counting tracks. Volunteers note the location of lights affecting the hatchlings and document the sky condition at the time of emergence, including the presence or absence of moonlight. When volunteers are present during the emergence, the number of disoriented

hatchlings is determined by how many the volunteers collect, in addition to any turtles observed reaching the water after wandering. Nest excavation data are used to adjust some disorientation estimates. For example, if volunteers arrive after an emergence and see all tracks leading away from the water, the nest is assumed to have 100% disorientation and the number of disoriented hatchlings is obtained from the excavation data. Disoriented turtles collected at the nest site are released the same night at Sunnyside Beach, the darkest part of our survey area.

During the 2015 season, Shigetomo Hiram from FWC provided training on an alternative method to quantify hatchling disorientation, based on the paper “A Hatchling Orientation Index for Assessing Orientation Disruption from Artificial Lighting,” by Witherington, Crady, and Bolen (1996). The method uses a hand-held sighting compass to measure the angular range of hatchling tracks emerging from the nest. The measurements are intended to be made in the early morning following the previous night’s hatchling emergence. Unfortunately, on our urban beach, hatchling tracks can quickly disappear under foot traffic. Most of our nests hatch in the early evening before 11 pm (see Figure 4), thus increasing the odds of people being present when hatchlings emerge. As a result, tracks were mostly obscured when found during the morning survey, and we were able to collect data using this method at only five nests.

Hatchling Disorientation Results. Of the 49 loggerhead nests found in 2015, main emergence results for 38 nests that hatched at night are shown in Table 1, including those at which no disorientation occurred. Eight nests were excluded because five failed to hatch (nest no. 7, 10, 11, 20, 49), four hatched during the day and thus experienced negligible disorientation (4, 9, 16, 17), and one nest was excluded because we could not determine if hatchlings emerged during daylight or evening hours (30). The column for “Total Emerged” represents the main emergence which excludes stragglers that may have emerged afterwards. Information also is provided on the time of hatchling emergence, if known, and the method used to document the emergence. Results show that 1450 of 2908 hatchlings were disoriented by artificial lights, giving a combined disorientation of 50%. Turtle Watch personnel observed the main emergence at 27 nests. The remaining 11 were documented by tracks observed and hatchlings collected after the emergence, either at night or during the morning survey. While most of the disoriented turtles were rescued by Turtle Watch personnel, some mortality occurred at several nests, the most severe of which was at nest 46, located at 19440 Front Beach Rd, where most of the 77 disoriented turtles were killed by predators (ghost crabs, dogs). Figure 1 shows locations of all disorientation incidents in 2015.

Adult Disorientation Results. Nesting loggerheads became disoriented at 10% of the nests found this year (5 of 49 nests). Table 2 shows results of the five disorientation incidents. Each was assessed based on a wandering track found during the morning survey after the turtle had returned to the water. The most serious incident occurred at nest 29, located at 6617 Gulf Drive, where a loggerhead became disoriented after nesting and crawled over 700 ft before entering the water, encountering numerous obstacles along the way. Figure 2 shows pictures of the exit track when the nest was found.

Lights Contributing to Hatchling Disorientation. Figure 3 shows the types of lights contributing to hatchling disorientation incidents this year. Condo exterior lights were the largest contributor at 29%. Other significant contributors were urban glow (19%), street lights (14%), and parking lot lights (12%). Gulf Power Company placed shields on pole lights in the vicinity of some nests prior to hatching at the request of Turtle Watch. The shields reduced light spillover onto the beach and may have helped reduce disorientation from street lights.

Discussion. We saw improvements in hatchling disorientation incidents this year. In fact, the value of 50% is the lowest combined disorientation percentage since 2013 when the lighting ordinances became effective. However, closer examination of the emergence data reveals an important caveat. An unusually large number of nests hatched at dusk, during twilight hours after sunset but before complete darkness. Figure 4 shows the percentage of nests that hatched during the daytime (sunrise to sunset), dusk (up to 45

minutes after sunset), early evening (dusk to 11 pm), and late night (11 pm to sunrise). The results show that 19% of our nests hatched at dusk when hatchlings benefited from residual sunset glow on the Gulf horizon. Hatchlings that emerged from these nests experienced significantly less disorientation (28% from 8 nests hatched at dusk) compared to those emerging in total darkness (56% from 30 nests that hatched in early evening and late night). Another potential mitigating factor is the role of moonlight, which is known to reduce disorientation when hatchlings emerge at night on developed beaches in the presence of artificial lights. It is possible that a higher proportion of nests hatched in the presence of moonlight compared to previous years, although this is hard to confirm since volunteers aren't present at all hatchings. In any case, beachfront lighting remains a serious threat to sea turtles on this developed beach.

We will continue to work with Mr. Hirama to find better ways to quantify hatchling disorientation. Mr. Hirama's method is likely more reliable than our technique of estimating disorientation from turtles collected and observations made by volunteers with varying levels of experience. We need a way to adapt his technique to our urban beach where hatchling tracks quickly disappear under human footprints.

If you have questions on this material, please contact me during business hours at (850) 234-4643 or at pcbturtle@yahoo.com. Thanks.

Sincerely,

Kennard Watson

Kennard Watson
Turtle Watch Coordinator

cc: Tomo Hirama FWC

Table 1. Nighttime loggerhead hatchling emergences on Panama City Beach in 2015 (38 nests).

Nest No.	Nearest Landmark	Incident Date	Emergence Time	Total Emerged	Number Disoriented	Percent Disoriented	Method Used to Document Hatchling Emergence	Report Filed
1	Townhouse, 22405 Front Beach Rd	11-Jul	10:25 PM	104	63	61%	Night survey: tracks identified and hatchlings collected	Yes
2	Beachside Resort, 21905 Front Beach Rd	24-Jul	9:57 PM	56	1	2%	Night survey: hatchlings observed emerging from nest	No
3	Seascape Inn, 14929 Front Beach Rd	22-Jul	11:41 PM	124	117	94%	Night survey: hatchlings observed emerging from nest	Yes
5	House, 19989 Front Beach Rd	1-Aug	8:05 PM	59	20	34%	Night survey: hatchlings observed emerging from nest	Yes
6	Whispering Seas Condo, 8610 Surf Dr	9-Aug	10:15 PM	68	68	100%	Night survey: hatchlings observed emerging from nest	Yes
8	House, 5135 Gulf Dr	29-Jul	9:10 PM	90	18	20%	Night survey: hatchlings observed emerging from nest	Yes
12	Harpoon Harry's, 12627 Front Beach Rd	7-Aug	8:29 PM	84	84	100%	Night survey: hatchlings observed emerging from nest	Yes
14	Days Inn, 12818 Front Beach Rd	12-Aug	10:05 PM	68	68	100%	Night survey: hatchlings observed emerging from nest	Yes
15	House, 16407 Front Beach Rd	19-Aug	7:41 PM	115	0	0%	Night survey: hatchlings observed emerging from nest	No
18	Edgewater Beach Resort, 11212 Front Beach Rd	19-Aug	8:03 PM	69	55	80%	Night survey: hatchlings observed emerging from nest	Yes
19	Townhouse, 17327 Front Beach Rd	21-Aug	8:57 PM	71	29	41%	Night survey: hatchlings observed emerging from nest	Yes
21	Aquavista Condo, 17155 Front Beach Rd	21-Aug	7:47 PM	98	0	0%	Night survey: tracks identified	No
22	Palazzo Condo, 17281 Front Beach Rd	22-Aug	7:52 PM	68	0	0%	Night survey: hatchlings observed emerging from nest	No
23	House, 21320 Front Beach Rd	24-Aug	7:26 PM	100	0	0%	Night survey: hatchlings observed emerging from nest	No
24	Laguna Beach Christian Retreat, 20016 Front Beach Rd	27-Aug	10:00 PM	11	0	0%	Night survey: hatchlings observed emerging from nest	No
25	House, 6715 Gulf Dr	21-Aug	9:08 PM	80	7	9%	Night survey: hatchlings observed emerging from nest	No
26	Townhouse, 22425 Front	25-Aug	8:45 PM	83	0	0%	Night survey: hatchlings observed	No

	Beach Rd						emerging from nest	
28	Townhouse, 17135 Front Beach Rd	28-Aug	11:00 PM	26	7	27%	Night survey: hatchlings observed emerging from nest	No
29	House, 6617 Gulf Dr	21-Aug	11:32 PM	94	91	97%	Night survey: hatchlings observed emerging from nest	Yes
31	House, 19300 Front Beach Rd	29-Aug	10:10 PM	72	4	6%	Night survey: tracks identified and hatchlings collected	No
32	House, 6709 Gulf Dr	26-Aug	9:31 PM	96	0	0%	Night survey: hatchlings observed emerging from nest	No
33	Regency Condo, 5801 Thomas Dr	26-Aug	8:05 PM	116	0	0%	Night survey: hatchlings observed emerging from nest	No
34	Majestic Beach Resort, 10901 Front Beach Rd	29-Aug	9:00 PM	17	12	71%	Night survey: tracks identified and hatchlings collected	Yes
35	House, 19008 Front Beach Rd	23-Aug	10:20 PM	58	22	38%	Night survey: hatchlings observed emerging from nest	Yes
37	Townhouse, 8517 Surf Dr	8-Sep	7:20 PM	95	92	97%	Night survey: hatchlings observed emerging from nest	Yes
38	Blue Horizon Lodge, 19016 Front Beach Rd	3-Sep	7:40 PM	4	1	25%	Night survey: hatchlings observed emerging from nest	No
39	Aquavista Condo, 17155 Front Beach Rd	2-Sep	11 PM to 7:50 AM	76	1	1%	Morning survey: tracks identified and hatchlings collected	No
40	Landmark Condo, 17501 Front Beach Rd	6-Sep	8:30-9:30 PM	78	54	69%	Night survey: hatchlings collected	Yes
41	Townhouse, 20647 Front Beach Rd	7-Sep	7:46 PM	90	9	10%	Night survey: hatchlings observed emerging from nest	No
43	Splash Condo, 17739 Front Beach Rd	10-Sep	12:14 AM	89	89	100%	Night survey: hatchlings observed emerging from nest	Yes
44	En Soleil Resort, 7509 Thomas Dr	15-Sep	7:30-11:45 PM	28	28	100%	Night survey: tracks identified	Yes
45	House, 344 Beachside Dr, Carillon Beach	17-Sep	9:14 PM	94	94	100%	Night survey: hatchlings observed emerging from nest	Yes
46	Carousel Store, 19440 Front Beach Rd	14-Sep	11:20PM-7:10 AM	77	77	100%	Morning survey: tracks identified and hatchlings collected	Yes
47	Casa Loma Motel, 13615 Front Beach Rd	21-Sep	10:45 PM	75	74	99%	Night survey: hatchlings observed emerging from nest	Yes
48	House, 17757 Front Beach Rd	19-Sep	8:25 PM	103	99	96%	Night survey: tracks identified and hatchlings collected	Yes
50	Sunrise Beach Condo, 14825 Front Beach Rd	25-Sep	7:25 PM	75	75	100%	Night survey: hatchlings observed emerging from nest	Yes

51	Pinnacle Port Condo, 23223 Front Beach Rd	23-Sep	9:20 PM	107	1	1%	Night survey: hatchlings observed emerging from nest	No
52	House, 388 Beachside Dr, Carillon Beach	16-Oct	9 PM to 7:15 AM	90	90	100%	Morning survey: tracks identified and hatchlings collected	Yes
TOTAL				2908	1450	49.9%		

Table 2. Adult loggerhead disorientation incidents on Panama City Beach in 2015 (5 nests).

Crawl No.	Crawl Type	Nearest Landmark	Incident Date	Observations	Report Filed
1	Nest	Townhouse, 22405 Front Beach Rd	21-Apr	Turtle disoriented during return to water after nesting.	Yes
7	Nest	Beachcomber by the Sea Motel, 17101 Front Beach Rd	3-Jun	Turtle crawled about 100 ft along shoreline before returning to water after nesting.	Yes
11	Nest	House, 21018 Front Beach Rd	10-Jun	Turtle became disoriented after nesting, making 2 small circles and then crawling parallel to shoreline before entering water.	Yes
29	Nest	House, 6617 Gulf Dr	25-Jun	Turtle crawled over 700 ft after nesting, went into dune and between rows of lounge chairs, around flag pole, condo sign and vendor box before returning to water.	Yes
45	Nest	House, 344 Beachside Dr, Carillon Beach	17-Jul	Turtle disoriented during return to water after nesting.	Yes

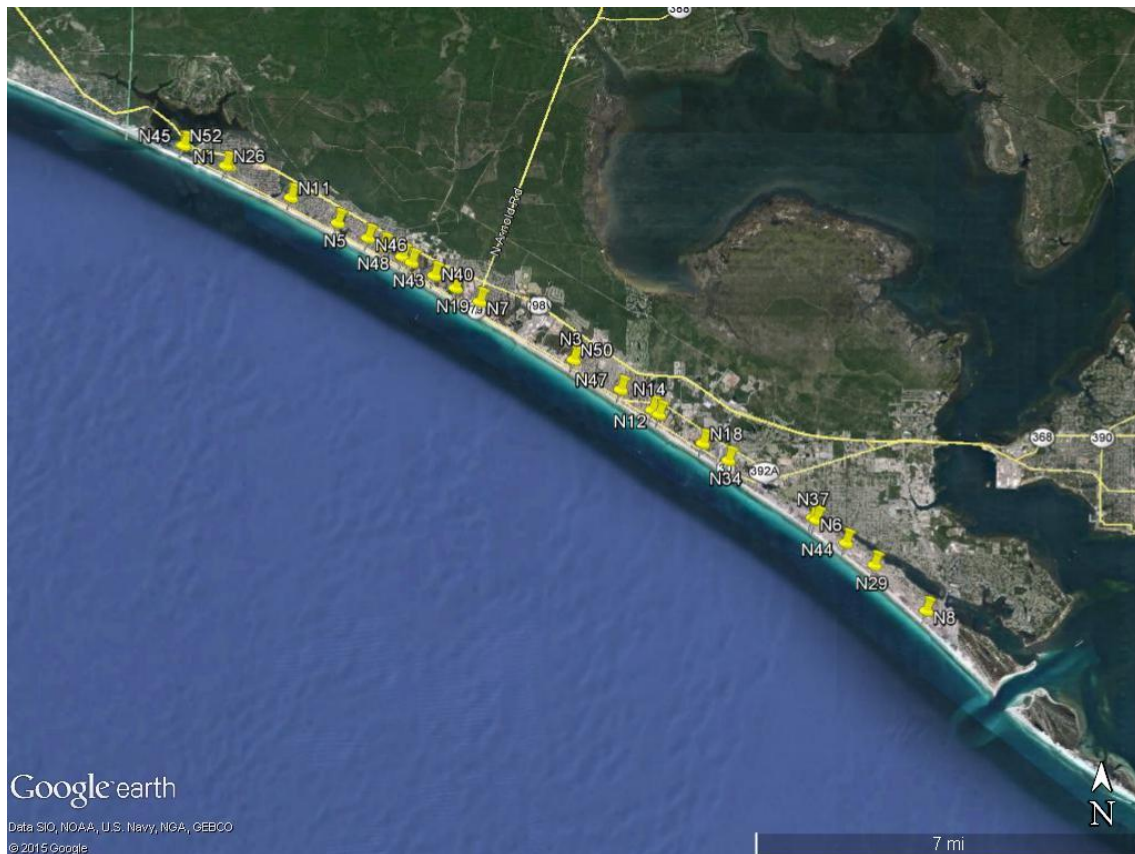


Figure 1. Map showing locations at which loggerhead hatchling and adult turtle disorientation occurred and reports filed on Panama City Beach in 2015 (24 nests).



Figure 2. Pictures of exit track at nest 29 where loggerhead became disoriented after nesting and wandered over 700 feet before entering the water.

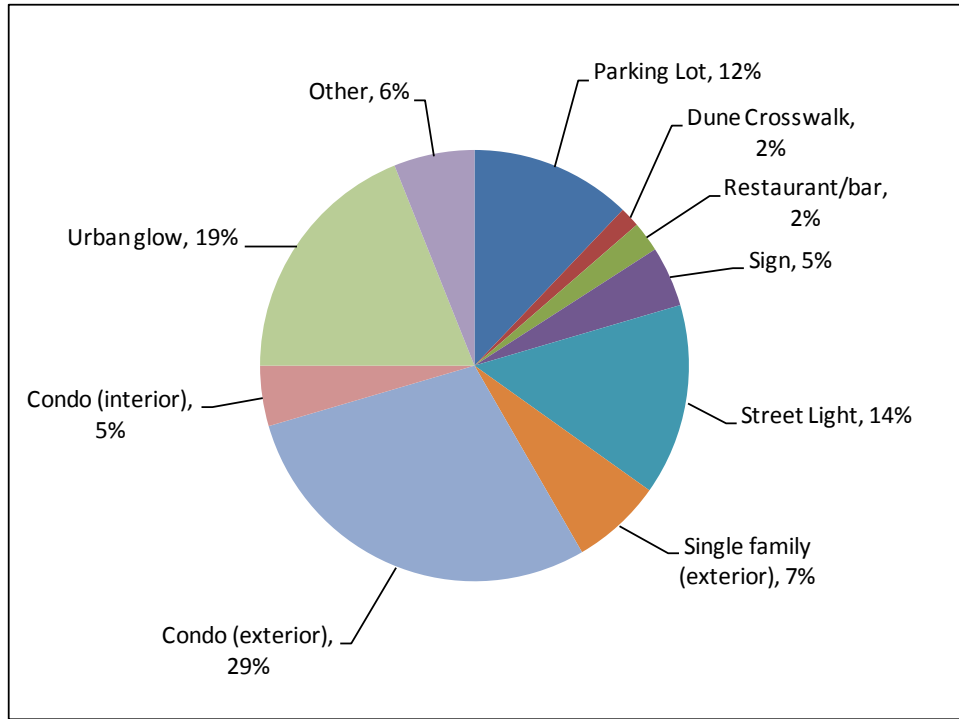


Figure 3. Lights contributing to loggerhead hatchling disorientation incidents on Panama City Beach in 2015 (22 nests).

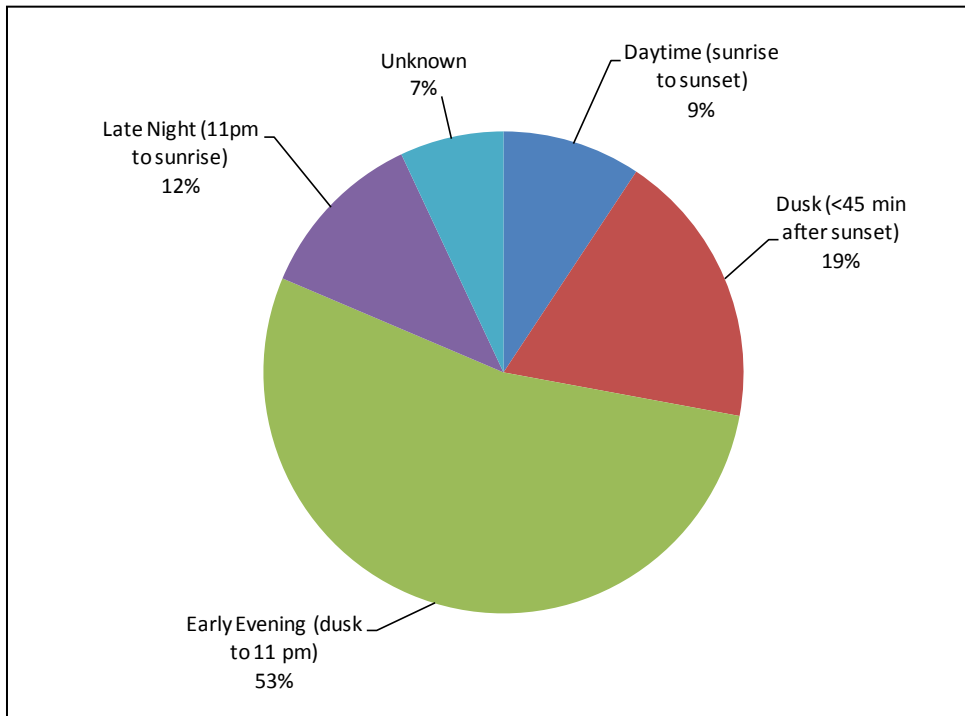


Figure 4. Time of day for loggerhead main hatchling emergence on Panama City Beach in 2015 (43 nests).

Adult turtle disorientation incident reports

KPW-15-04-21-01-BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 4/21/15

Observer's Name: LYNDA YATES

Telephone (include area code): 850-230-4168 E-mail address: lyatespcb@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): Access 93-

22405 B FRONT BEACH RD, PCB

City: PANAMA CITY BEACH County: BAY

Local nest ID#: 1 Zone nest was located in: 32

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.25723 Longitude: -85.96621

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input checked="" type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

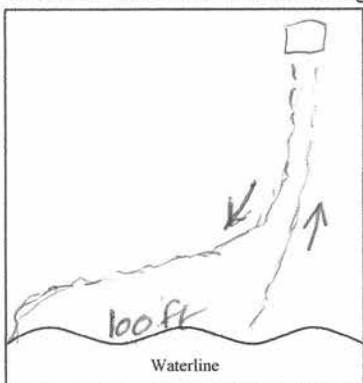
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: _____



Number of turtles disoriented: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: _____

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): NESTING FEMALE DISORIENTED ON WAY BACK TO WATER

Local authority provided a copy of this report: City County FWC Other: _____

Lynda Yates
Signature of Observer

4-21-2015
Date

K P W 1 5 0 6 0 3 0 1 B A Y

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 6/3/15

Observer's Name: Annette DeSercey

Telephone (include area code): (850) 235-5483 E-mail address: annette.desercey@navy.mil

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

Townhouse complex at 17135 Front Beach Rd

City: Panama City Beach County: Bay

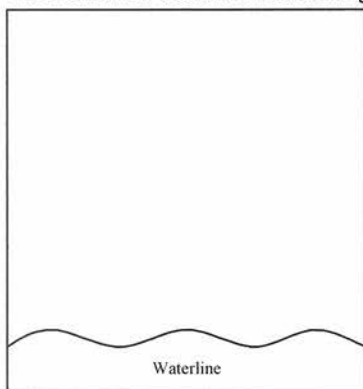
Local nest ID#: 7 Zone nest was located in: 22

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.22183 Longitude: -85.89032

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input checked="" type="checkbox"/> Adult – Nesting Emergence <input type="checkbox"/> Adult – False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: _____

Number of turtles disoriented: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: _____

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Turtle crawled along the shoreline for about 100 ft before returning to the water after nesting

Local authority provided a copy of this report: City County FWC Other: _____

Annette DeSercey
Signature of Observer

6/12/2015
Date

— — — — —

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: _____ Date of Incident: _____

Observer's Name: _____

Telephone (include area code): _____ E-mail address: _____

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

City: _____ County: _____

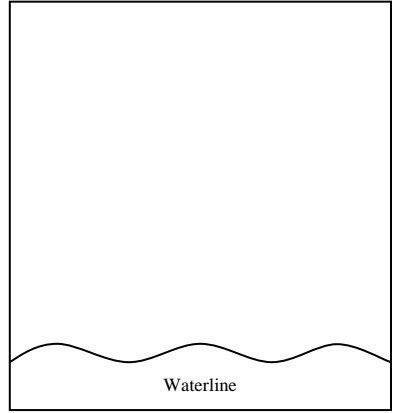
Local nest ID#: _____ Zone nest was located in: _____

Nest GPS Coordinates (*use decimal degrees: i.e., Lat 26.845412 Long -80.458796*):

Latitude: _____ Longitude: _____

SPECIES: (check one) <input type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult – Nesting Emergence <input type="checkbox"/> Adult – False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
--	---	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: _____

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: _____

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): _____

Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer

Date

K P W 1 5 0 6 2 5 0 1 B A Y

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 6/25/15

Observer's Name: Pamela Colson

Telephone (include area code): (850) 276-7206 E-mail address: pam.colson@noaa.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): House, 6617 Gulf Drive 32408

City: Panama City Beach County: Bay

Local nest ID#: 29 Zone nest was located in: 5

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.152968 Longitude: -85.770922

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input checked="" type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

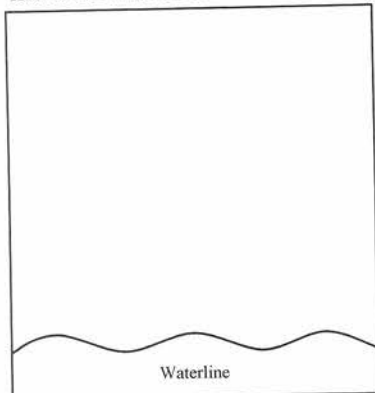
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: _____



Number of turtles disoriented: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Sterling Beach Condo, 6627 Thomas Drive 32408

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): After nesting turtle crawled east over 700 ft into dune and between rows of lounge chairs, around flag pole, condo sign, and vendor box before returning to water

Local authority provided a copy of this report: City County FWC Other: _____

Pamela Colson
Signature of Observer

8/31/15
Date

— — — — —

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: _____ Date of Incident: _____

Observer's Name: _____

Telephone (include area code): _____ E-mail address: _____

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

City: _____ County: _____

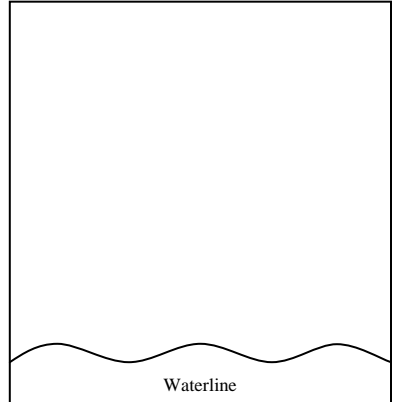
Local nest ID#: _____ Zone nest was located in: _____

Nest GPS Coordinates (*use decimal degrees: i.e., Lat 26.845412 Long -80.458796*):

Latitude: _____ Longitude: _____

SPECIES: (check one) <input type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult – Nesting Emergence <input type="checkbox"/> Adult – False Crawl <input type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
--	---	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: _____

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: _____

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): _____

Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer

Date

Hatchling disorientation incident reports

KPW 15 07 15 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 38 Date of Incident: 7-11-15

Observer's Name: YATES/EVOU/NOVAK/EVOU

Telephone (include area code): 850-774-2361 E-mail address: lyates.fwc@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): _____

22405 FRONT BEACH RD

City: PANAMA CITY BEACH County: BAY

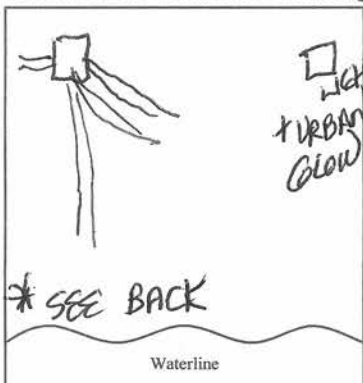
Local nest ID#: 1 Zone nest was located in: 32

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.257232 Longitude: -85.966209

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 7/14/15

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: TBD - SEE COMMENTS * WILL ATTEMPT TO LOCATE SOURCE

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|---|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input checked="" type="checkbox"/> single family home (exterior) | <input checked="" type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

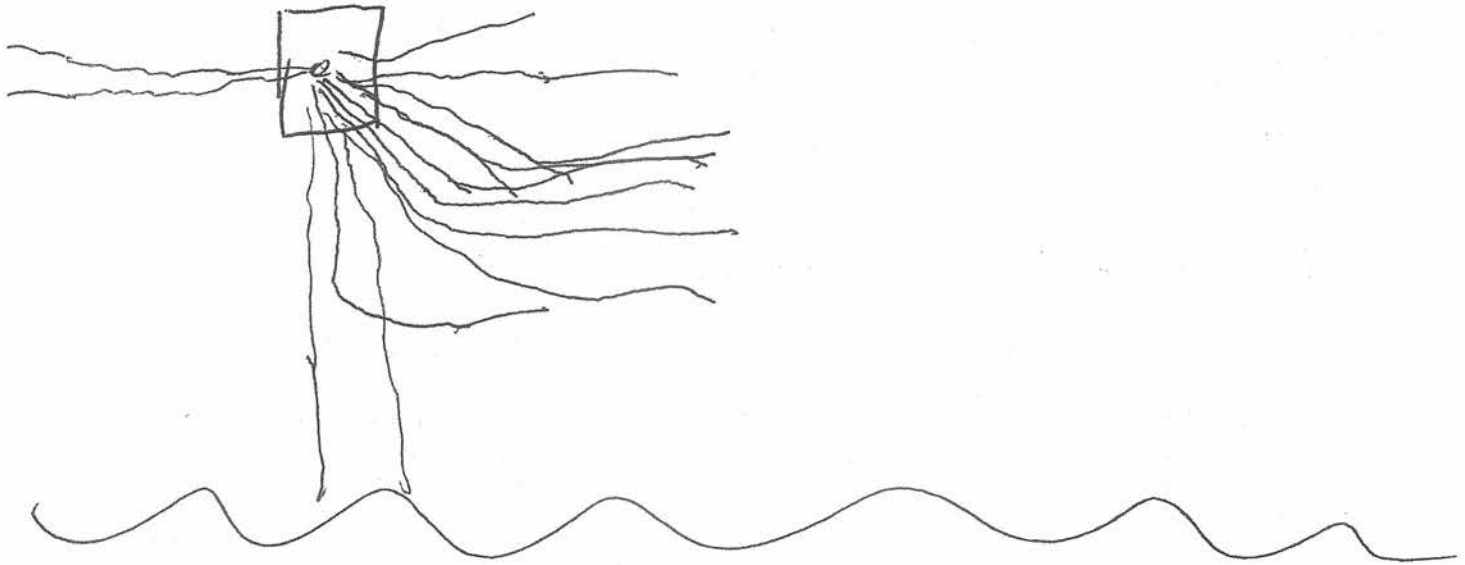
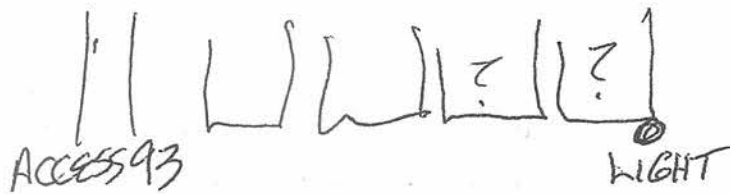
Additional comments (use back if necessary): * OUTSIDE PORCH LIGHT ON HOUSE EAST OF NEST WAS ON DURING HATCH - IT WAS TURNED OFF AFTER DAMAGE WAS DONE SO WE COULDN'T IDENTIFY IT. WILL ATTEMPT TO DURING DAY OR ANOTHER NIGHT. URBAN GLOW AROUND PIER PARK COULD ALSO HAVE BEEN A FACTOR

Local authority provided a copy of this report: City County FWC Other: _____

Rynda Yates
Signature of Observer

7-11-15
Date

22465



- 2 PICKED UP WEST (INCLUDED IN 57)
- 6 PICKED UP BY RESIDENT & PUT IN WATER BEFORE WE GOT THERE
- 3 FOLLOWED TO WATER BY RESIDENT KIDS
- 57 PICKED UP & RELEASED @ SUNNY SIDE 4th ST 11:45 PM

OTHER TRACKS LOOKED LIKE THEY GOT TO WATER
BUT TOO TRAMPLED TO COUNT

57 RELEASED

9 CONFIRMED INTO GULF

66 TOTAL

MOST CAME OUT SE QUADRANT & TURNED TOWARD LIGHT.
PEOPLE BY NEST WILL TRY TO GET HOUSE # WITH LIGHT

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 7-22-15

Observer's Name: Shelley Sellin, Jennifer Sullivan

Telephone (include area code): 404-285-6535 E-mail address: jennifers@rosemarybeachfl.org

Location of Disorientation Event: (address, beach name and/or nearest landmark): Sunrise Beach Cards

14825 Front Beach Rd, PCB, FL

City: Panama City Beach County: Bay

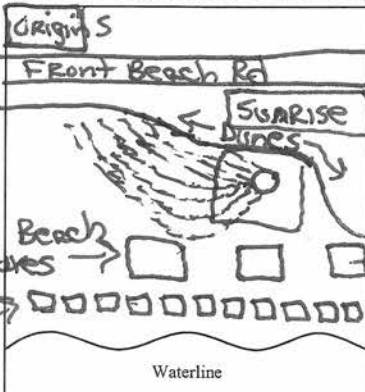
Local nest ID#: 03 Zone nest was located in: 18

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.206698 Longitude: -85.861473

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO

If "YES" report date of excavation: 7/25/15

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "YES" indicate the number: _____	

Addresses/landmarks turtle(s) disoriented towards: Origins 15100 Front Beach Rd, PCB, FL

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> parking lot <u>Sunrise</u> | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input checked="" type="checkbox"/> sky glow/urban glow <u>Origins (north of Front Beach Rd)</u> |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Dunes on 2 sides made crowd control challenging, but crowd followed instructions well. The sky/urban glow of Origins north of Front Beach Rd appeared to impact the direction the turtles went.

Local authority provided a copy of this report: City County FWC Other: _____

Jennifer Sullivan
 Signature of Observer

7-22-15
 Date

KPW-15-08-01-01-BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MYFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 08-01-2015

Observer's Name: Shane Wisneski / Christine Lawrence

Telephone (include area code): 850 624 5932 E-mail address: c.law@earthlink.net

Location of Disorientation Event: (address, beach name and/or nearest landmark): Public Access 77
19989 Front Beach Rd

City: Panama City Beach FL County: BAY

Local nest ID#: 5 Zone nest was located in: 28

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.242439 Longitude: -85.933243

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

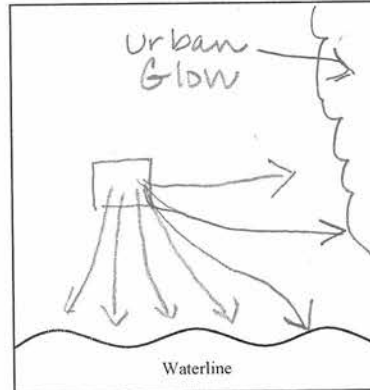
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? lights only YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 8/4/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Ambient lights from populated commercial area of the beach @ east end direction

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input checked="" type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Hatchlings were allotted time and and 30+ feet to crawl and re-orient before they were collected.

Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer

08-01-2015

Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8/9/2015

Observer's Name: Lisa Lehnhoff (FWS) Julie Fountain

Telephone (include area code): 304-806-1344 E-mail address: _____

Location of Disorientation Event: (address, beach name and/or nearest landmark): 8601 Surf Side Dr.

City: Panama City, FL County: Bay

Local nest ID#: 6 Zone nest was located in: 7

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.165324 Longitude: -85.789556

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
		<input type="checkbox"/> Daytime <input checked="" type="checkbox"/> Night Survey

Incident was documented during: (check one) Morning Survey Night Survey



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 3/12/15

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Shielded pool light & 1st story condo light (write) unshielded.
Ocean terrace

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input checked="" type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): _____

Local authority provided a copy of this report: City County FWC Other:

Lisa Lehnhoff FWS 8/10/2015

KPW 15 07 29 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 7-29-15

Observer's Name: Marilyn Agee

Telephone (include area code): (917) 594-3016 E-mail address: marilynagee@aol.com

Location of Disorientation Event: (address, beach name and/or nearest landmark):
5135 Gulf Dr (just west of Schooners) Pub Ac 4

City: Panama City Beach County: Bay

Local nest ID#: 8 Zone nest was located in: 2

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.2541244 Longitude: -85.9595913

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

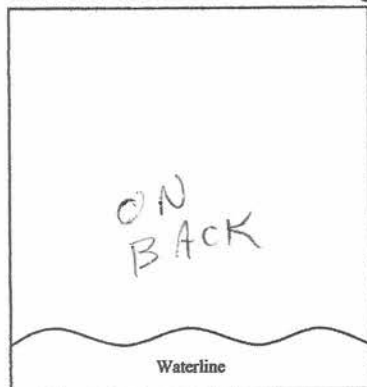
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 8/1/15



Number of turtles disoriented:

1
 2-10
 11-50
 >50

Disoriented turtles reaching the water:

All
 Some
 None
 Not investigated

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Seychelle Condo, pool lights & first condo west of Schooners - 5127 Gulf Dr. - exterior porch lights

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|---|--|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input checked="" type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

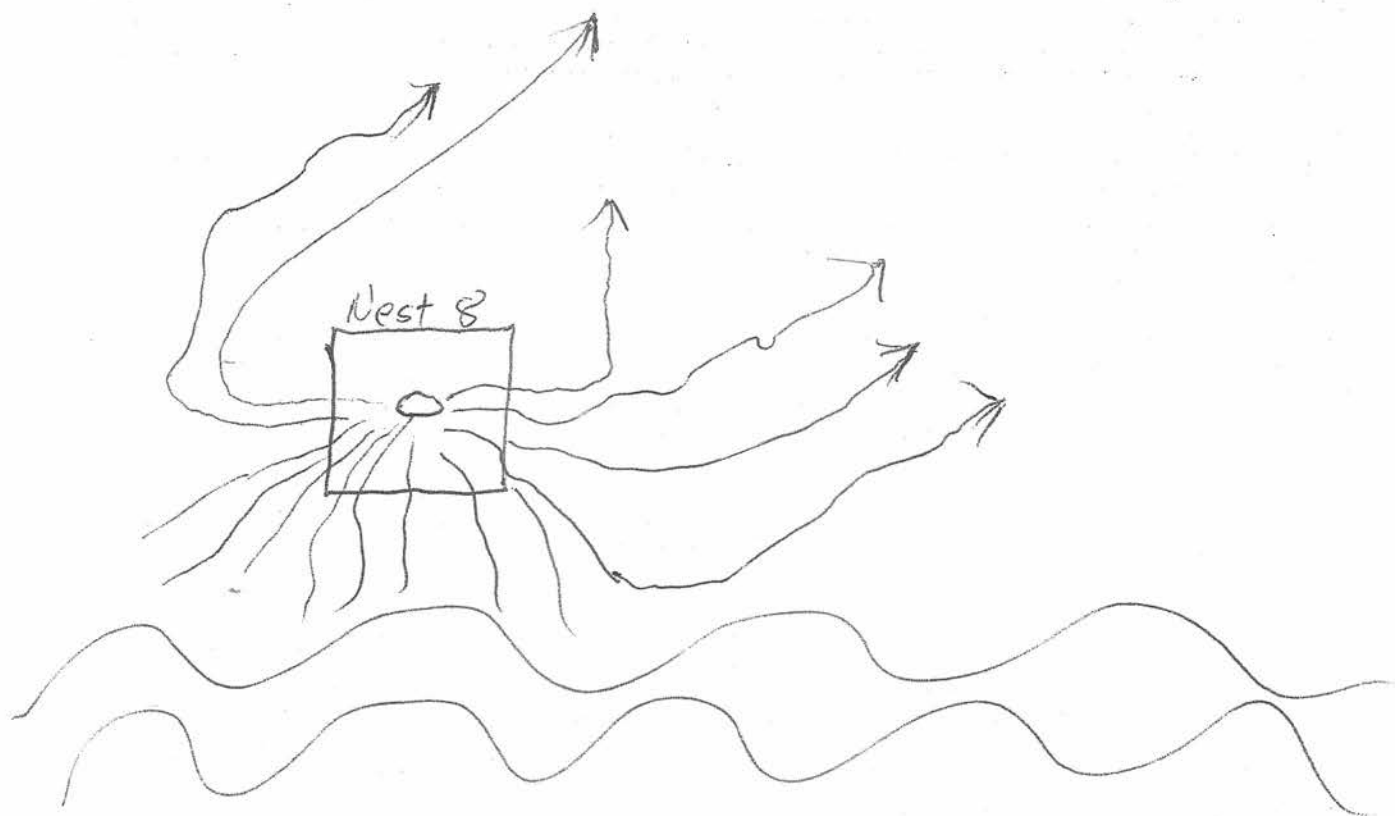
Additional comments (use back if necessary): An invested bystander there each night provided a critical alert about a sudden depression, which resulted in several volunteers arriving just in time for the emergence. (2) large house at 5141 Gulf Dr at first had many lights, but cooperated completely to darken it and notify next renters as well.

Local authority provided a copy of this report: City County FWC Other: _____

Marilyn S. Agee
Signature of Observer

7-29-15
Date

Gulf Drive



- ③ Beach patrol truck was headed for nest. Officer readily agreed to drive behind nest, instead of in front and turned off some bright lights. 😊
- ④ Bystander crowd was extremely cooperative and helpful. They were very conscientious about tracking disoriented hatchlings and "policing" each other about doing things the right way.

KPW 15 08 07 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

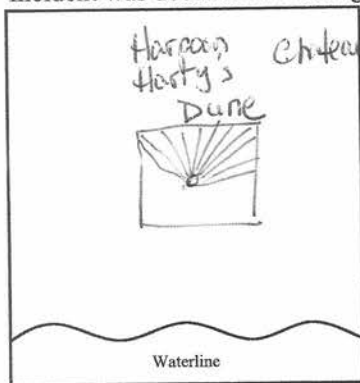
Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8/7/15
Observer's Name: Lynda Yates/Laura & Kevin Novak
Telephone (include area code): 443-895-3744 E-mail address: lauranovak6@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark):
12627 Front Beach Rd. - Behind Harpoon Harry's
City: Panama City Beach County: Bay
Local nest ID#: 12 Zone nest was located in: 14
Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
Latitude: 30.192410 Longitude: -85.835843

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
Was the source nest found? YES NO
Was the nest excavated? YES NO
If "YES" report date of excavation: 8/10/15

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "YES" indicate the number: _____	

Addresses/landmarks turtle(s) disoriented towards: 12627 Front Beach Rd. went to lights @ Harpoon Harry's & The Chateau.

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) |
| <input checked="" type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Harpoon Harry's did turn off most of their bar lights for us.

Local authority provided a copy of this report: City County FWC Other: _____

Laura Novak
Signature of Observer

8/7/15
Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8/12/2015
 Observer's Name: Lisa Lehnhoff (FWS) / Julie Fountain
 Telephone (include area code): 334-806-7392 E-mail address: lisa-lehnhoff@fws.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): 12818 Front Beach Rd. Days Inn

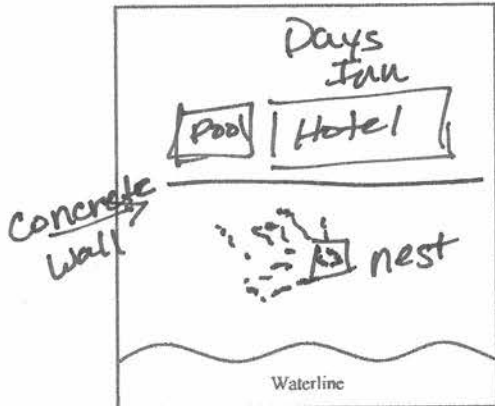
City: Panama City Beach, FL County: Bay
 Local nest ID#: 14 Zone nest was located in: 14

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
 Latitude: 30.193748 Longitude: -85.838088

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 8/15/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Pool area of Days Inn
12818 Front Beach Road

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input checked="" type="checkbox"/> other: <u>pool</u>

Additional comments (use back if necessary): _____

Local authority provided a copy of this report: City County FWC Other: FWS Staff on site

KPW 15 08 20 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8-20-2015

Observer's Name: Isis Koendler

Telephone (include area code): 819-1648 E-mail address: ISISK@USA.net

Location of Disorientation Event: (address, beach name and/or nearest landmark): 11212 Front Beach Rd (Edgewater condos) PCB, FL

City: PCB County: Bay

Local nest ID#: 18 Zone nest was located in: 12

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.184789 Longitude: -85.822818

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 8/23/15



see back

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "YES" indicate the number: _____	

Addresses/landmarks turtle(s) disoriented towards: most disoriented hatchlings went west towards other buildings & went towards bldg behind nest - Bldg 2 Edgewater

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

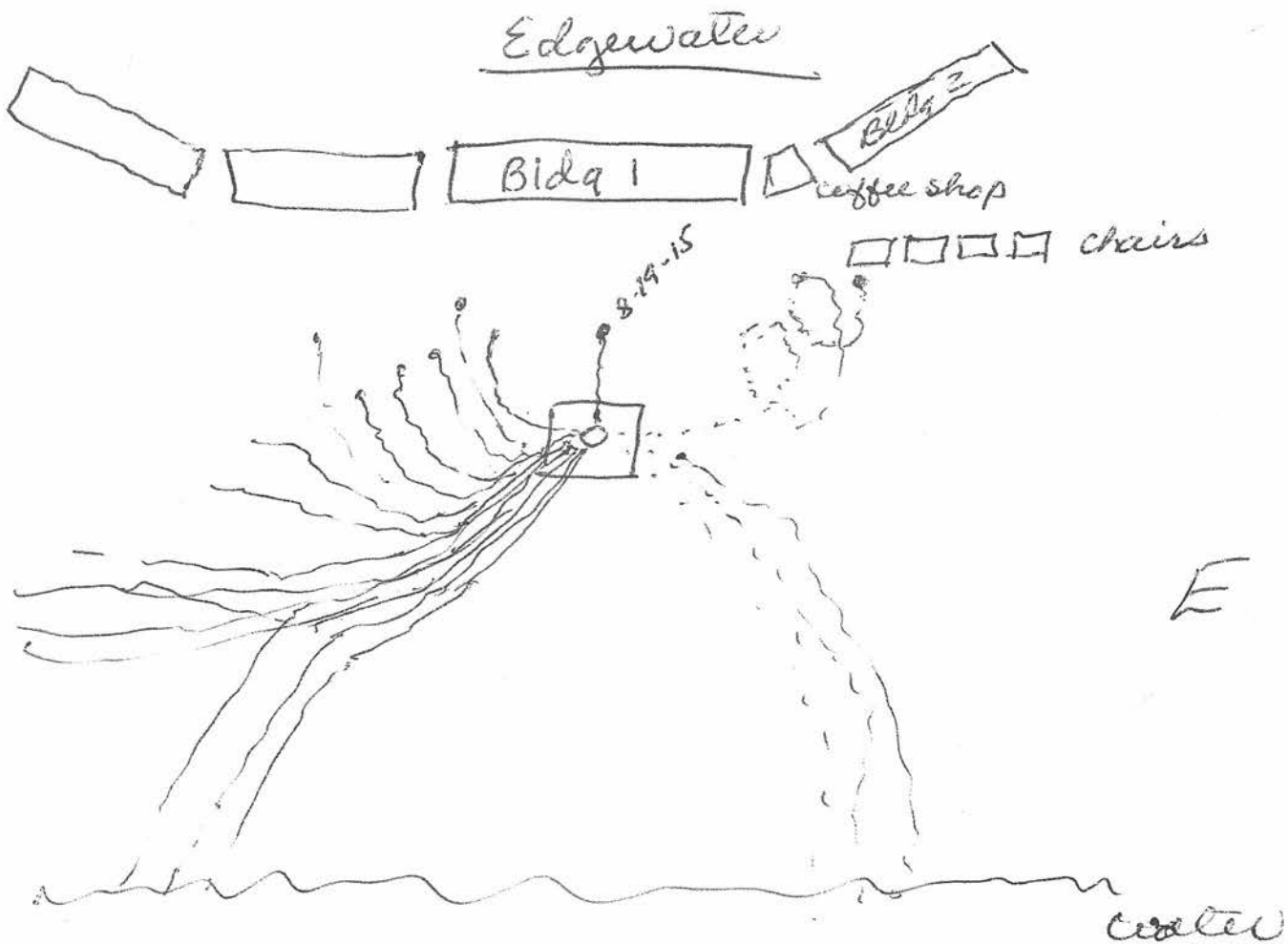
- | | | |
|---|--|--|
| <input type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light <u>several blocks W</u> | <input checked="" type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input checked="" type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): There was a fairly bright moon (not full). All turtles started out going towards moon, and going towards lights after coming out of nest perimeter

Local authority provided a copy of this report: City County FWC Other: _____

Isis Koendler
Signature of Observer

8-20-15
Date



6 that went in the water were out of
"cone"

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8-21-2015

Observer's Name: Betsy & Roger Straley

Telephone (include area code): 850-769-7244 E-mail address: possummama53@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): 17327 Front Beach Road

City: Panama City Beach County: Bay

Local nest ID#: 19 Zone nest was located in: 23

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.225357 Longitude: -85.897594

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

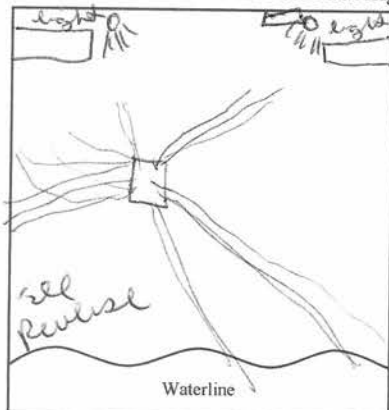
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 8/24/15



Number of turtles disoriented:

- 1
 2-10
 11-50
 >50

Disoriented turtles reaching the water:

- All
 Some
 None
 Not investigated

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Street light across street from SeaChase Condo, Streetlight to billboard across West end of Palazzo Condo

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input checked="" type="checkbox"/> sign ← | <input type="checkbox"/> other: <u>bill board</u> |

Additional comments (use back if necessary): The billboard was advertising Panera Bread in Pier Park

Local authority provided a copy of this report: City County FWC Other: _____

Signature of Observer

21 August 2015
Date

Bright billboard
bright white
Streetlight

Boat
Head

yellow, but bright,
street light

Front Beach Road

17351 Front Beach Road
Sea Chase Condo
East Tower

Palazzo
Condo

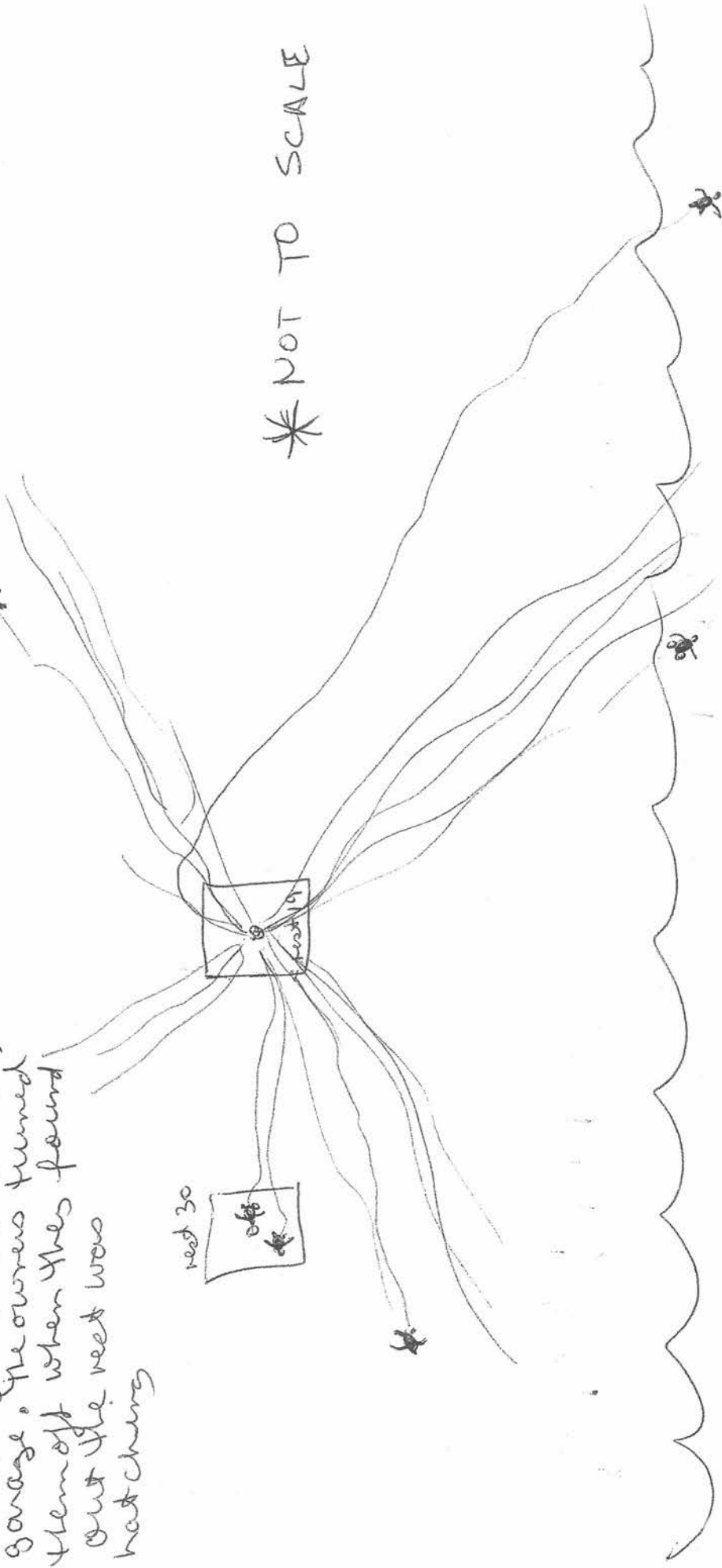
dark town home

* Sea Chase Condo was bright, white lights in their parking garage. The owners turned them off when they found out the nest was hatching

nest 30

nest 19

* NOT TO SCALE



Daily @ Mexico

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8-21-15

Observer's Name: Isis Koenders

Telephone (include area code): 352-381-8838 E-mail address: IS15K@USA.NET

Location of Disorientation Event: (address, beach name and/or nearest landmark): 6617 Gulf Drive

City: PCB County: Bay

Local nest ID#: # 29 Zone nest was located in: 5

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.152968 Longitude: -85.770922

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 8/24/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50 <u>91</u>	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: House had no # estimated to be 6625 Gulf Drive. It is next to empty lot at the corner of (East) Gulf + Safari

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

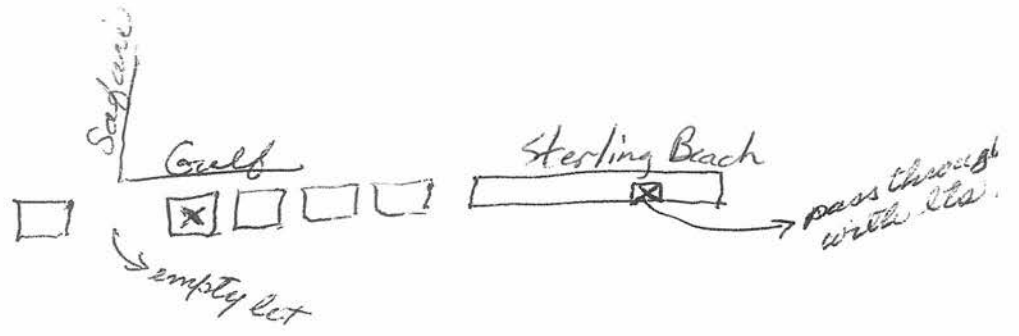
<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior) <u>a hall (walk through) to pool</u>
<input type="checkbox"/> restaurant/bar	<input checked="" type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): House with flood lights was the biggest problem - had motion sensor that came on about the time the nest was getting ready to hatch. The moon had gone down by the time

Local authority provided a copy of this report: City County FWC Other: _____ hatching occurs.

Isis Koenders
Signature of Observer

8-21-15
Date



water

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8/29/15

Observer's Name: Lorna Patrick

Telephone (include area code): (850) 265-8531 E-mail address: timorlorna@comcast.net

Location of Disorientation Event: (address, beach name and/or nearest landmark): 10901 Front beach Road, Majestic condos, at access 39

City: Panama City Beach County: Bay

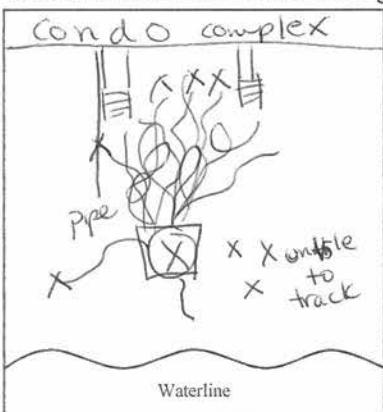
Local nest ID#: Nest 34 Zone nest was located in: 11

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.180331 Longitude: -85.815119

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult – Nesting Emergence <input type="checkbox"/> Adult – False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 9/1/15

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
 If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: 19016 Front beach Road, Majestic condos

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

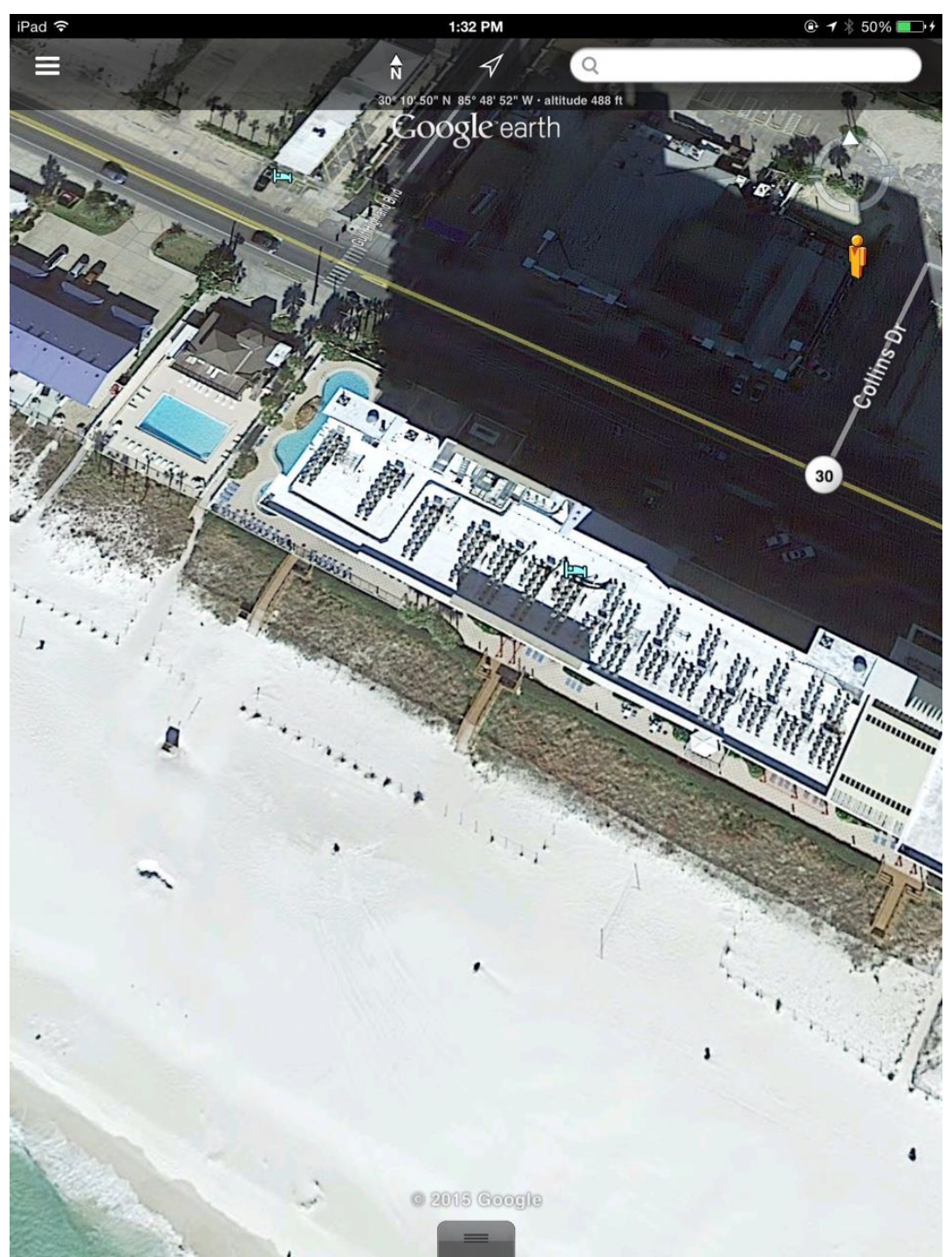
<input type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input checked="" type="checkbox"/> condominium (interior)
<input checked="" type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): At least 50% of the interior (curtains open) and exterior balcony light on; balcony lights were not wildlife friendly; pool lights and stairway/dune/beach lights bright and did not appear to

Local authority provided a copy of this report: City County FWC Other: _____


 Signature of Observer

8/30/15
 Date



KPW 15 08 23 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

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Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 8-23-15

Observer's Name: Isis Klaenders

Telephone (include area code): 850-381-8838 E-mail address: ISISK@USA.net

Location of Disorientation Event: (address, beach name and/or nearest landmark): 19016 Front Beach Rd. PCB
across the street from Blue Horizon Lodge

City: PCB County: Bay

Local nest ID#: 35 Zone nest was located in: 26

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.236470 Longitude: -85.919547

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
		<input type="checkbox"/> Morning Survey <input checked="" type="checkbox"/> Night Survey <input type="checkbox"/> Daytime

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 8/26/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
--	---

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Several street light both
to the right + left of nest location

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|---|---|
| <input type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input checked="" type="checkbox"/> sign <u>grocery store</u>
<u>also possibly</u> | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary):

Local authority provided a copy of this report: City County FWC Other: _____

Isis Klaenders
Signature of Observer

8-23-15
Date

grocery store
with sign



Assorted houses

Blue

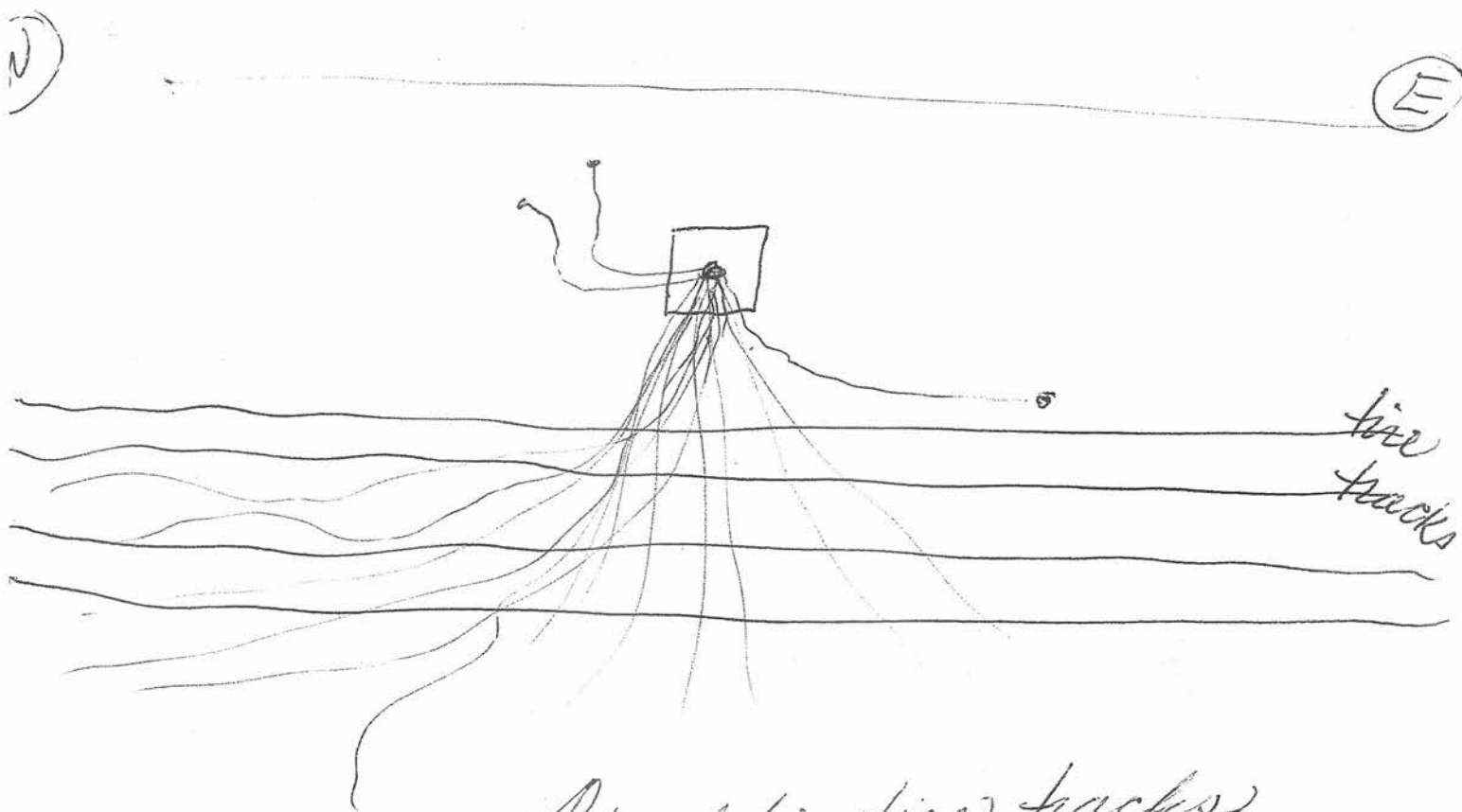
Horizontal
ridge

Assorted houses

Coast

Front
beach

Dunes



Lots of big tire tracks
that caused several turtles
to get stuck in them & go west

KPW 15 09 08 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

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Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@FWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 09-08-2015

Observer's Name: Shane Wisneski / Christine Lawrence

Telephone (include area code): 850 624 5932 E-mail address: c.law@earthlink.net

Location of Disorientation Event: (address, beach name and/or nearest landmark): 8517 Surf Dr

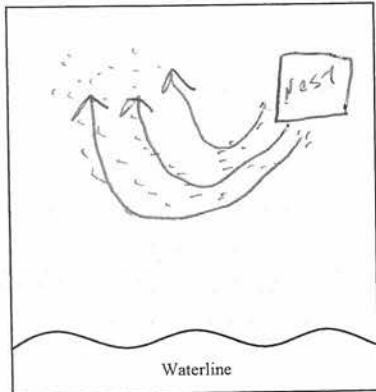
City: Panama City, FL County: BAY

Local nest ID#: 37 Zone nest was located in: 7

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
Latitude: 30.164749 Longitude: -85.788585

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 9/11/15

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input type="checkbox"/> Some <input checked="" type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: 90% of disoriented hatchlings went to Grande Surf Club Condo, 8601 Surf Dr

Were probable/possible light source(s) identified? YES NO
If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input checked="" type="checkbox"/> parking lot	<input checked="" type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): Multiple light sources, photos to be emailed to Kennard

Local authority provided a copy of this report: City County FWC Other: _____

[Signature]
Signature of Observer

09-08-2015
Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

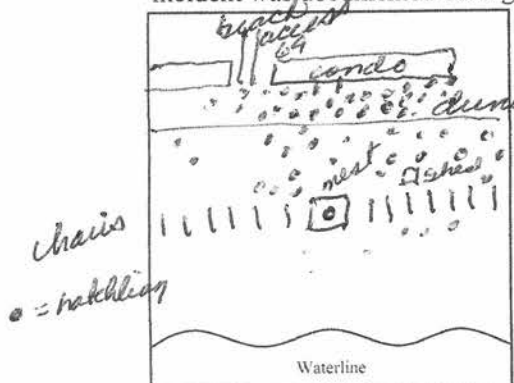
Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 9-6-15
 Observer's Name: Isis Kaenders
 Telephone (include area code): 810-381-8838 E-mail address: ISISK@USA.NET

Location of Disorientation Event: (address, beach name and/or nearest landmark): 17501 Front Beach Rd, Big Landmark Condo, beach access 69
 City: PCB, FL County: Bay
 Local nest ID#: # 40 Zone nest was located in: 23
 Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):
 Latitude: 30.228589 Longitude: -85.904043

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime
 Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO
 If "YES" report date of excavation: 9/9/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All that we found. <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>at that time</i> If "YES" indicate the number: _____	

Addresses/landmarks turtle(s) disoriented towards: mostly Landmark Condo but rain prior to emergence made it impossible to see any tracks!

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____
Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)
 parking lot street light condominium (interior)
 dune crossover single family home (interior) condominium (exterior)
 restaurant/bar single family home (exterior) sky glow/urban glow
 pier sign other: _____

Additional comments (use back if necessary): There was no moon, sky was overcast

Local authority provided a copy of this report: City County FWC Other: _____

Isis Kaenders
 Signature of Observer

9/7/15
 Date

KPW 15 09 10 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: MTP-15-038 Date of Incident: 9/10/15

Observer's Name: Laura + Kevin Novak / Jennifer Sullivan

Telephone (include area code): 443-895-3744 E-mail address: lauranovak6@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): 17759 Front Beach Rd.

Behind Splash Condo

City: Panama City Beach County: Bay

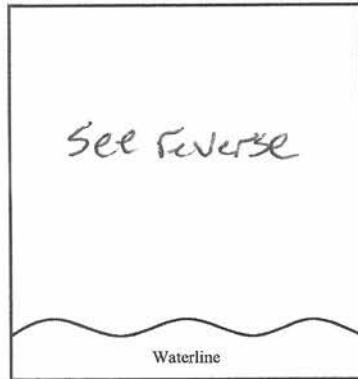
Local nest ID#: 43 Zone nest was located in: 24

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.232015 Longitude: -85.910863

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
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Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO

If "YES" report date of excavation: _____

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO
If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Lights at pool at Splash Condos

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|--|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): We moved chairs within 20 feet of nest. all turtles went towards lights at Condos.

Local authority provided a copy of this report: City County FWC Other: _____

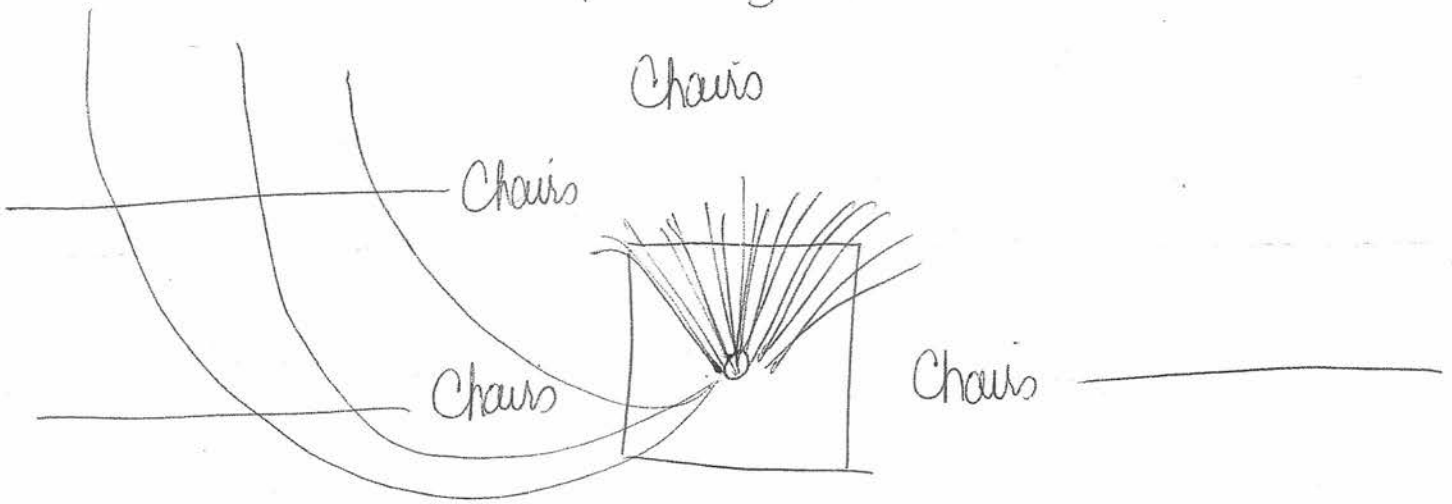
Laura Novak
Signature of Observer

9/10/15
Date

Splash Condos

Pool Lights

Chairs



Water

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 38 Date of Incident: 9/15/2015

Observer's Name: Stephanie Wilson

Telephone (include area code): (810) 319-6139 E-mail address: stephanie.wilson@myfwc.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): En Soleil Condo

7509 Thomas Drive

City: Panama City Beach County: Bay

Local nest ID#: 44 Zone nest was located in: 6

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.158945 Longitude: -85.779327

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO

If "YES" report date of excavation: 9/18/15

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "YES" indicate the number: _____	

Addresses/landmarks turtle(s) disoriented towards: En Soleil dunes (address above +)
and 7827 Surf DRIVE parking area spot light.

Were probable/possible light source(s) identified? YES NO
 If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input checked="" type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): All hatchlings were disoriented

Nest hatched before we got there @ 11:25 pm. No indication that nest was going to hatch previously. Shark fishermen found 4 hatchlings crawling west toward the water and assisted them into gulf. We found 2 near the beach service box. 1 was fairly unresponsive. Released onsite away from light sources down the beach

Local authority provided a copy of this report: City County FWC Other: _____

Stephanie Wilson
 Signature of Observer

9/16/2015
 Date

KPW 15 09 15 02 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

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Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 9-15-15

Observer's Name: Nancy Evon

Telephone (include area code): 850-624-4239 E-mail address: Nancy.evon@noaa.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): 19400 Front Beach Rd. Carousel Store

City: Panama City Beach County: Bay

Local nest ID#: 46 Zone nest was located in: 26

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.238468 Longitude: -85.924096

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
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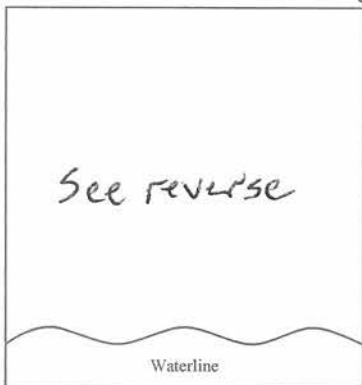
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/17/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input checked="" type="checkbox"/> 11-50 <input type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: 2

Addresses/landmarks turtle(s) disoriented towards: 19208 Front Beach Rd
Thomas Donut Shop

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input checked="" type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Some disoriented hatchlings were caught in the nets. dead turtles found mid beach between nest & last trap @ Thomas Donuts Shop. dead turtles collected. Refer to map.

Local authority provided a copy of this report: City County FWC Other: _____

Nancy Evon
Signature of Observer

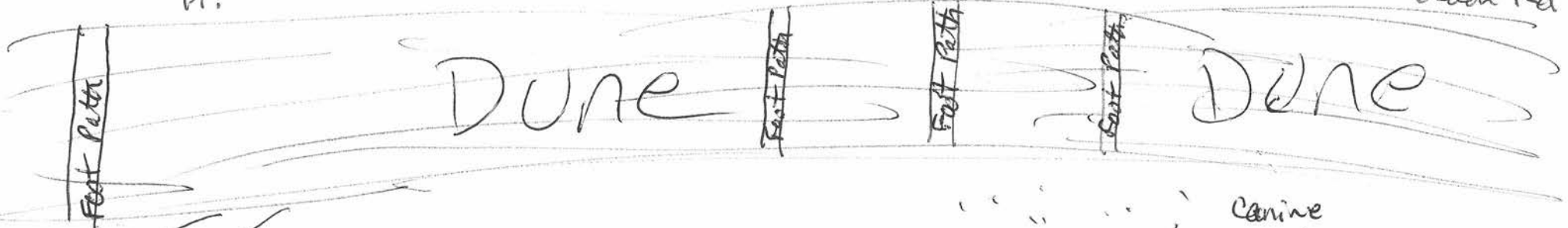
9-15-15
Date

Carousel
19440 Front Beach
Pr.

house house house house
st. lights

st. lights

Thomas Donut
19208 Front
Beach Rd
st. lights



Tire ruts

Canine tracks

x dead hatchling

x dead hatchling

nest 46

10 turtle confirmed to water
between nest + Thomas Donuts

Water

Storm Drain

KPW 15 09 21 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

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Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 9/21/15

Observer's Name: Laura + Kevin Novak Jenn Simms

Telephone (include area code): 443-895-3744 E-mail address: lauranovak6@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): 13615 Front Beach Rd. West of Casa Loma Motel

City: Panama City Beach County: Bay

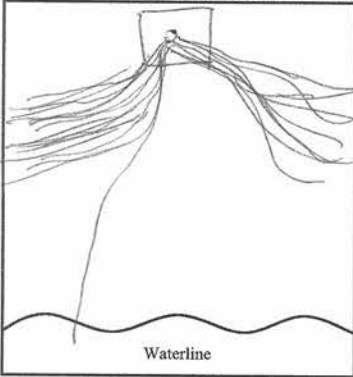
Local nest ID#: 47 Zone nest was located in: 16

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.199209 Longitude: -85.847868

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO
 Was the source nest found? YES NO
 Was the nest excavated? YES NO

If "YES" report date of excavation: _____

Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
Were any disoriented turtles found dead? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "YES" indicate the number: _____	

Addresses/landmarks turtle(s) disoriented towards: All turtles except one went towards "glow" of lights both east & west of nest.

Were probable/possible light source(s) identified? YES NO -

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|--|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input checked="" type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input checked="" type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input type="checkbox"/> other: _____ |

Additional comments (use back if necessary): Some hatchlings were affected by fire tracks as well as the lights.

Local authority provided a copy of this report: City County FWC Other: _____

Laura Novak
Signature of Observer

9/21/15
Date

KPW 15 09 19 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MvFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 9-19-15

Observer's Name: Patty Kelly & Lydia Ambrose

Telephone (include area code): 850-873-7738 E-mail address: lydia-ambrose@fwc.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): 17757 Front Beach Rd.

In front of and slightly East of Access 76A

City: Panama City Beach County: Bay

Local nest ID#: 48 Zone nest was located in: 25

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.233536 Longitude: -85.913722

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input checked="" type="checkbox"/> Relocated
---	--	--

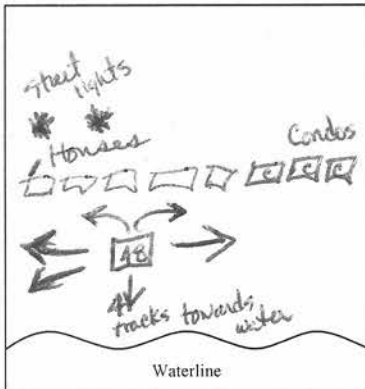
Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/22/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input type="checkbox"/> All <input checked="" type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Street lights W of nest, Splash Condo East of nest; there is a beam of bright light just west of nest of Street light shining between 2 houses.

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input type="checkbox"/> parking lot	<input checked="" type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): One of the houses was having a wedding with guests holding sparklers + 3 hatchlings went towards wedding sparklers. The main source of issues seemed to be the street lights, especially the ones at/near the access 76A, that caused the beam of bright light. In addition, 2 street lights on West side were very bright.

Local authority provided a copy of this report: City County FWC Other: _____

Lydia Ambrose
Signature of Observer

9-19-15
Date

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 9/25/15

Observer's Name: John + Karen Simonsen

Telephone (include area code): (850) 233-4457 E-mail address: spetia@k3@gmail.com

Location of Disorientation Event: (address, beach name and/or nearest landmark): Sunrise Beach Condo
14825 Front Beach Rd. / PCB, FL.

City: Panama City Beach, FL. County: Bay

Local nest ID#: 50 Zone nest was located in: 18

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.206657 Longitude: -85.862007

SPECIES: (check one) <input checked="" type="checkbox"/> Cc = Loggerhead <input type="checkbox"/> Cm = Green Turtle <input type="checkbox"/> Dc = Leatherback <input type="checkbox"/> Un = Unidentified <input type="checkbox"/> O = Other _____	TYPE OF EVENT: (check one) <input type="checkbox"/> Adult - Nesting Emergence <input type="checkbox"/> Adult - False Crawl <input checked="" type="checkbox"/> Hatchling	NEST TREATMENT: (check all used) <input type="checkbox"/> Restraining Cage <input type="checkbox"/> Self-releasing Screen/Cage <input type="checkbox"/> Light Barrier (i.e., silt screen) <input type="checkbox"/> Relocated
---	--	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime

Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 9/28/15



Number of turtles disoriented: <input type="checkbox"/> 1 <input type="checkbox"/> 2-10 <input type="checkbox"/> 11-50 <input checked="" type="checkbox"/> >50	Disoriented turtles reaching the water: <input checked="" type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None <input type="checkbox"/> Not investigated
---	--

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Sunrise Beach Condo and
Origins (at Seahaven) Condo

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

<input checked="" type="checkbox"/> parking lot	<input type="checkbox"/> street light	<input type="checkbox"/> condominium (interior)
<input type="checkbox"/> dune crossover	<input type="checkbox"/> single family home (interior)	<input checked="" type="checkbox"/> condominium (exterior)
<input type="checkbox"/> restaurant/bar	<input type="checkbox"/> single family home (exterior)	<input type="checkbox"/> sky glow/urban glow
<input type="checkbox"/> pier	<input type="checkbox"/> sign	<input type="checkbox"/> other: _____

Additional comments (use back if necessary): Turtle hatchlings emerged at 7:25 pm
and immediately began heading North (away from the water)
and toward the two condominiums with the bright parking
lot lights. It was a very clear night with a full moon, but all 75
turtles followed the lights that dominated over the moonlight.

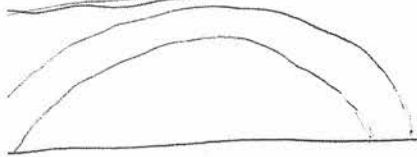
Local authority provided a copy of this report: City County FWC Other: _____

Karen Simonsen
Signature of Observer

9/25/15
Date

Origins at Seahaven (Lights) Parking Lot

9/25/15
7:25 PM



Hwy. 98

(Front Beach Rd)

Barefoot Inn

Sunrise Beach
Condos



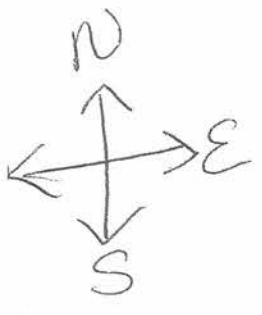
Sea Oats



Stairway
Lights

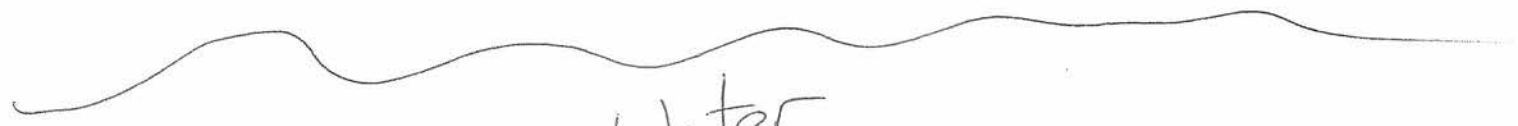
Parking Lot

Sea Oats



Nest

All 75 hatchlings emerged and went directly North toward the Condo lights. There was almost a full moon out, but the Condo lights dominated over the clear moonlit night.



Water

KPW 15 10 17 01 BAY

Permit Holder Initials Year Month Day Dis. # by Day County Code

FWC MARINE TURTLE DISORIENTATION REPORT

If you have any questions, please contact FWC at the Tequesta Field Laboratory (561) 882-5975

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: Disorientation Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33469

Marine Turtle Permit #: 038 Date of Incident: 10-17-15

Observer's Name: Nancy Evon

Telephone (include area code): 850-624-4239 E-mail address: nancy.evon@noaa.gov

Location of Disorientation Event: (address, beach name and/or nearest landmark): 338 Beachside Dr

Carillon Beach

City: Panama City County: Bay

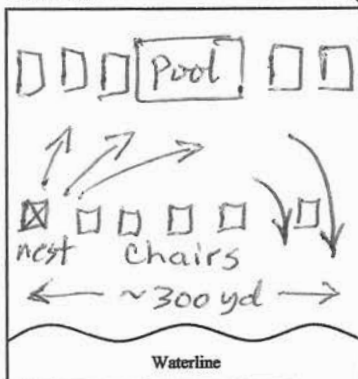
Local nest ID#: 52 Zone nest was located in: 34

Nest GPS Coordinates (use decimal degrees: i.e., Lat 26.845412 Long -80.458796):

Latitude: 30.262861 Longitude: -85.980239

<p>SPECIES: (check one)</p> <p><input checked="" type="checkbox"/> Cc = Loggerhead</p> <p><input type="checkbox"/> Cm = Green Turtle</p> <p><input type="checkbox"/> Dc = Leatherback</p> <p><input type="checkbox"/> Un = Unidentified</p> <p><input type="checkbox"/> O = Other _____</p>	<p>TYPE OF EVENT: (check one)</p> <p><input type="checkbox"/> Adult - Nesting Emergence</p> <p><input type="checkbox"/> Adult - False Crawl</p> <p><input checked="" type="checkbox"/> Hatchling</p>	<p>NEST TREATMENT: (check all used)</p> <p><input type="checkbox"/> Restraining Cage</p> <p><input type="checkbox"/> Self-releasing Screen/Cage</p> <p><input type="checkbox"/> Light Barrier (i.e., silt screen)</p> <p><input checked="" type="checkbox"/> Relocated</p>
--	---	---

Incident was documented during: (check one) Morning Survey Night Survey Daytime



Was the incident photographed? YES NO

Was the source nest found? YES NO

Was the nest excavated? YES NO

If "YES" report date of excavation: 10/19/15

Number of turtles disoriented:

- 1
- 2-10
- 11-50
- >50

Disoriented turtles reaching the water:

- All
- Some
- None
- Not investigated

Were any disoriented turtles found dead? YES NO

If "YES" indicate the number: _____

Addresses/landmarks turtle(s) disoriented towards: Community Pool area.

Were probable/possible light source(s) identified? YES NO

If "NO" indicate why: (check one) No lights present Too many lights Other: _____

Indicate categories of light(s) identified as probable/possible lighting sources: (check all that apply)

- | | | |
|---|--|---|
| <input type="checkbox"/> parking lot | <input type="checkbox"/> street light | <input type="checkbox"/> condominium (interior) |
| <input type="checkbox"/> dune crossover | <input type="checkbox"/> single family home (interior) | <input type="checkbox"/> condominium (exterior) |
| <input type="checkbox"/> restaurant/bar | <input type="checkbox"/> single family home (exterior) | <input checked="" type="checkbox"/> sky glow/urban glow |
| <input type="checkbox"/> pier | <input type="checkbox"/> sign | <input checked="" type="checkbox"/> other: <u>Swimming pool</u> |

Additional comments (use back if necessary): turtle crawled toward pool then continued east toward Panama City Beach. Tracks indicated hatchlings made it to water after crawling approximately 300 yds. 2 live hatchlings found & released.

Local authority provided a copy of this report: City County FWC Other: _____

Nancy Evon
Signature of Observer

10-17-15
Date

Attachment 4

Obstructed Nesting Attempt reports

5 November 2015

Prepared by:

Kennard Watson
St. Andrew Bay Resource Management Association
6509 Palm Court
Panama City Beach, Florida 32408

Prepared for:

Dan Rowe
Bay County Tourist Development Council
P.O. Box 9473
Panama City Beach, Florida 32413

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 0 38 Date of Incident: 2 May 2015
Observer's Name: Nancy Evo
Telephone (include area code): (850) 624-4239 E-mail address: nancy.evo u@oaa.gov
Species: Loggerhead Green Leatherback Other: _____
Crawl resulted in: Nest False Crawl
Location of nest or false crawl (address, beach name and/or nearest landmark): Beachside Resort, 21905 Front Beach Rd

GPS Coordinates of nest or false crawl location:
(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):
Latitude 30.25412 Longitude -85.9 599
City: Panama City Beach County: Bay
Local nest ID#: 2 Zone nest/false crawl was located in: 31
Obstruction(s) encountered: (please circle)

- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe): _____
Describe Event: Turtle nested 5- 10 ft seaward of a row of wooden lounge chairs

Nancy Evo 6-15-15
Signature of Observer Date

Event photograph attached

**FWC MARINE TURTLE
OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM**

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: May 18, 2015
Observer's Name: Jeff Krepper
Telephone (include area code): 850-814-8236 E-mail address: jabberwock1@me.com
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl
Location of nest or false crawl (address, beach name and/or nearest landmark): _____

14825 Front Beach Rd
Panama City Beach FL

GPS Coordinates of nest or false crawl location:
(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):
Latitude 30.20659 Longitude -85.86185

City: Panama City Beach County: Bay
Local nest ID#: 3 Zone nest/false crawl was located in: 18

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe):
Describe Event: Line of beach chairs provided a barrier so turtle
nested 27 feet from water. Nest was relocated.

Signature of Observer Date 5-18-15

Event photograph attached

**FWC MARINE TURTLE
OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM**

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MTP-15-038 Date of Incident: 6/1/15

Observer's Name: Annette de Sercey

Telephone (include area code): 850-252-0683 E-mail address: annette.de@comcast.net

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): 8610 SURF DRIVE
WISPRING SPAS CONDO

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.16532 Longitude -85.78957

City: PANAMA CITY BEACH County: BAY

Local nest ID#: 6 Zone nest/false crawl was located in: 7

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe): _____

Describe Event: _____

Annette de Sercey
Signature of Observer

6/12/2015
Date

Event photograph attached

**FWC MARINE TURTLE
OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM**

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MTP-15-038 Date of Incident: 6/4/15

Observer's Name: Annette de Sercey

Telephone (include area code): 850 252 0688 E-mail address: Annette.de@comcast.net

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): 5135 GULF DRIVE
Beach Exit #4 west of Schooners

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.14101 Longitude -85.75528

City: PANAMA CITY BEACH County: FLA

Local nest ID#: 8 Zone nest/false crawl was located in: 2

Obstruction(s) encountered: (please circle)

- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe): _____

Describe Event: _____

Annette de Sercey
Signature of Observer

6/12/2015
Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: _____ Date of Incident: _____

Observer's Name: _____

Telephone (include area code): _____ E-mail address: _____

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): _____

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude _____ Longitude _____

City: _____ County: _____

Local nest ID#: _____ Zone nest/false crawl was located in: _____

Obstruction(s) encountered: (please circle)

Beach furniture	Dune Crossover	Escarpment	Rock Outcropping	Special Events Equipment
Boat	Groins	Marine Debris	Rock Revetment	Tent
Cabana	Geotube/Sandbags	Nourishment Equipment	Seawall	Umbrella

Other Obstruction (please describe): _____

Describe Event: _____

Signature of Observer

Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 38 Date of Incident: 6-15-15

Observer's Name: Nancy Evin

Telephone (include area code): 850-624-4239 E-mail address: Nancy.Evin@noaa.gov

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): 12627 Front Beach Rd. Harpoon Harry's

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.19233° Longitude 085.83605°

City: Panama City Beach County: Bay

Local nest ID#: 12 Zone nest/false crawl was located in: 14

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe): _____

Describe Event: Turtle came out of water and was blocked by beach chairs, but nested. Photos taken. Water coming in and erased tracks, only small part of tracks left.

Nancy Evin
Signature of Observer

6-15-15
Date

Event photograph attached

**FWC MARINE TURTLE
OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM**

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: 6-17-15
Observer's Name: Jess Keenders
Telephone (include area code): 850-381-8838 E-mail address: 1513K@USA.NET
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl
Location of nest or false crawl (address, beach name and/or nearest landmark):
12818 Front Beach Rd - PCB
Behind Days Inn

GPS Coordinates of nest or false crawl location:
(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):
Latitude 30.193748 Longitude -85.838088
City: Panama City Beach County: Bay
Local nest ID#: 14 Zone nest/false crawl was located in: 14

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe):
Describe Event: turtle had to go around beach chairs to nest.
nest had to be moved because it was in direct line
with a drain from the Days Inn
Jess Keenders 6-17-15
Signature of Observer Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MvFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MTP-15-038 Date of Incident: 06-22-2015
Observer's Name: Christine Lawrence
Telephone (include area code): 850-674-5932 E-mail address: c.law@earthlink.net
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): Aquavista Condo
17155 Front Beach Rd., Panama City Beach, FL 32413

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.222604 Longitude -85.891965

City: Panama City Beach County: Bay

Local nest ID#: 21 Zone nest/false crawl was located in: 22

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe):

Describe Event: Nest was located directly in front of heavy
wooden beach chairs and appeared to stop turtle
crawl and ~~push~~ force nest at that location

Christine Lawrence
Signature of Observer

06-22-2015
Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: MTP-15-038 Date of Incident: 06-22-2015

Observer's Name: Christine Lawrence

Telephone (include area code): 850-624-5932 E-mail address: C.LAW@earthlink.net

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): Palazzo Condo
17281 Front Beach Rd., Panama City Beach, FL 32413

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.224432 Longitude -85.895684

City: Panama City Beach County: Bay

Local nest ID#: 22 Zone nest/false crawl was located in: 22

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe):

Describe Event: Tourists witnessed turtle crawl up to chairs
that stopped her ingress and turned her around
to nest.

Signature of Observer

Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

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Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: 6/25/15

Observer's Name: Pamela Colson

Telephone (include area code): (850) 276-7206 E-mail address: pam.colson@noaa.gov

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): House, 6617 Gulf Drive 32408

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.152968 Longitude -85.770922

City: Panama City Beach County: Bay

Local nest ID#: 29 Zone nest/false crawl was located in: 5

Obstruction(s) encountered: (please circle)

- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe): flag pole for surf condition, volleyball net, vendor box, sign for Coral Reef Condo

Describe Event: After nesting turtle crawled east over 700 ft into dune and between rows of lounge chairs, around flag pole, condo sign, and vendor box before returning to water.

Pamela Colson
Signature of Observer

6/25/15
Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: 6-30-15
Observer's Name: Shelly Sellin & Jeff Knepp
Telephone (include area code): 520-271-6411 E-mail address: shellysellin@myfwc.com
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl
Location of nest or false crawl (address, beach name and/or nearest landmark): Regency Towers
5801 Thomas Dr

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.14593 Longitude -85.76175
City: Panama City Beach County: Bay
Local nest ID#: 33 Zone nest/false crawl was located in: 3

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input checked="" type="checkbox"/> Escarpment 12"	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe): _____
Describe Event: _____

Signature of Observer 8-4-15
Date

Event photograph attached

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: 7-4-15
Observer's Name: Shelly Seltin / Jeff Kreppel
Telephone (include area code): 561-291-0411 E-mail address: _____
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl
Location of nest or false crawl (address, beach name and/or nearest landmark): 19016 Front Beach Rd

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.23613 Longitude -85.91946

City: Panama City Beach County: Bay

Local nest ID#: 38 Zone nest/false crawl was located in: 26

Obstruction(s) encountered: (please circle)

Beach furniture	Dune Crossover	Escarpment	Rock Outcropping	Special Events Equipment
Boat	Groins	Marine Debris	Rock Revetment	<u>Tent</u>
Cabana	Geotube/Sandbags	Nourishment Equipment	Seawall	<u>Umbrella</u>

Other Obstruction (please describe): Flag Pole

Describe Event: _____

[Signature]
Signature of Observer

7-4-15
Date

Event photograph attached

**FWC MARINE TURTLE
OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM**

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: 7/8/15
Observer's Name: Yates & Boe (EVOU)
Telephone (include area code): 7039016312 E-mail address: kab12d@my.fsu.edu
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): Landmark Condo
17501 Front Beach Rd Panama City Beach, FL
Beach Access 69

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude 30.228589 Longitude -85.904043

City: Panama City Beach County: Bay

Local nest ID#: 40 Zone nest/false crawl was located in: 23

Obstruction(s) encountered: (please circle)

<input checked="" type="checkbox"/> Beach furniture	<input type="checkbox"/> Dune Crossover	<input type="checkbox"/> Escarpment	<input type="checkbox"/> Rock Outcropping	<input type="checkbox"/> Special Events Equipment
<input type="checkbox"/> Boat	<input type="checkbox"/> Groins	<input type="checkbox"/> Marine Debris	<input type="checkbox"/> Rock Revetment	<input type="checkbox"/> Tent
<input type="checkbox"/> Cabana	<input type="checkbox"/> Geotube/Sandbags	<input type="checkbox"/> Nourishment Equipment	<input type="checkbox"/> Seawall	<input type="checkbox"/> Umbrella

Other Obstruction (please describe): _____

Describe Event: Turtle was blocked by wooden beach chairs

Yvonne Boe
Signature of Observer

7/8/15
Date

Event photograph attached

(Surrey or EVOU took pictures)

FWC MARINE TURTLE OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407

Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com

Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: _____ Date of Incident: _____

Observer's Name: _____

Telephone (include area code): _____ E-mail address: _____

Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl

Location of nest or false crawl (address, beach name and/or nearest landmark): _____

GPS Coordinates of nest or false crawl location:

(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):

Latitude _____ Longitude _____

City: _____ County: _____

Local nest ID#: _____ Zone nest/false crawl was located in: _____

Obstruction(s) encountered: (please circle)

Beach furniture	Dune Crossover	Escarpment	Rock Outcropping	Special Events Equipment
Boat	Groins	Marine Debris	Rock Revetment	Tent
Cabana	Geotube/Sandbags	Nourishment Equipment	Seawall	Umbrella

Other Obstruction (please describe): _____

Describe Event: _____

Signature of Observer

Date

Event photograph attached

**FWC MARINE TURTLE
OBSTRUCTED NESTING ATTEMPT (ONA) REPORT FORM**

If you have any questions please contact FWC at the Tequesta Field Laboratory (561) 575-5407
Fax reports to: (561) 743-6228 or Email reports to: SeaTurtleLighting@MyFWC.com
Send reports to: ONA Reports, FWC, 19100 SE Federal Highway, Tequesta, FL 33455

Turtle Permit #: 038 Date of Incident: 31/JUL/15
Observer's Name: Nervais Medina
Telephone (include area code): 407-319-3241 E-mail address: nervais.medina@upr.edu
Species: Loggerhead Green Leatherback Other: _____

Crawl resulted in: Nest False Crawl
Location of nest or false crawl (address, beach name and/or nearest landmark): Sea Side Villas Rentals, Thomas Dr, Panama City Beach, FL

GPS Coordinates of nest or false crawl location:
(in the WGS projection in decimal degrees i.e., Lat 26.845412 Long -80.458796):
Latitude 30.13588 Longitude -85.74893
City: Panama City Beach County: Bay
Local nest ID#: 30 Zone nest/false crawl was located in: 1
Obstruction(s) encountered: (please circle)

- | | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> Beach furniture | <input type="checkbox"/> Dune Crossover | <input type="checkbox"/> Escarpment | <input type="checkbox"/> Rock Outcropping | <input type="checkbox"/> Special Events Equipment |
| <input type="checkbox"/> Boat | <input type="checkbox"/> Groins | <input type="checkbox"/> Marine Debris | <input type="checkbox"/> Rock Revetment | <input type="checkbox"/> Tent |
| <input type="checkbox"/> Cabana | <input type="checkbox"/> Geotube/Sandbags | <input type="checkbox"/> Nourishment Equipment | <input type="checkbox"/> Seawall | <input type="checkbox"/> Umbrella |

Other Obstruction (please describe): _____
Describe Event: Emergence of turtle obstructed by beach chairs.
wood beach chairs.

Nervais Medina _____
Signature of Observer Date

Event photograph attached