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FLORIDA PANTHER ANNUAL COUNT 2015

Florida Panther Annual Count 2015

Rancher's Supply Inc: Roy McBride and Cougar McBride

Acknowledgements

Contributions to this year's annual census report involved a large group of dedicated people, including Big Cypress National Preserve (BICY) Pedro Ramos, Ron Clark, and the BICY panther capture team: Deborah Jansen, Houndsman Cougar McBride, John Kellam, Annette Johnson, Dennis Giardina, and Ralph Arwood; Everglades National Park (ENP) staff Mark Parry; Florida Fish and Wildlife Conservation Commission (FWC) staff Darrell Land, Mark Lotz, Dave Onarato, and Marc Criffield; SW FL Nature Conservancy staff Dave Shindle; Fakahatchee Strand Preserve State Park staff Mike Owen and WynLyn McBride; Rancher's Supply Inc. staff Logan Lewis; and Wings of Hope program director Ricky Pires. Veterinarians include Dr. Frank Ridgley, Dr. Ray Ball, Dr. Kevin Castle and Dr. Erin Myers. We are grateful to Larry Williams and Dana Hartley of the U.S. Fish & Wildlife Service (USFWS) for funding the synoptic survey since 2007.Thanks to John Kellam for years of research, data analysis, figures/graphics, and final edits. Special thanks to Deborah Jansen for providing long-term BICY deer survey data. Special thanks also to the Florida Fish and Wildlife Conservation Commission and the thousands of citizens who purchased Florida Panther Trust Fund license plates.

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Background

Historically, Florida panther population numbers were derived from estimates based on unverified sightings, questionnaires, extrapolations, computer models, and personal opinions that ranged from extinction to 300 individuals (Lovett Williams, FWC biologist; and J.N. Layne, ABS biologist, pers. comm.). To address the question of extinction, an effort to find panthers was funded by the World Wildlife Fund in 1972. This investigation proved by the discovery of tracks, urine markers, and the treeing of a panther by hounds that panthers still persisted in a small area of central & south Florida (Nowak and McBride 1974). Upon these findings, the FWC established a clearinghouse in 1976 to evaluate panther sightings (Belden 1978). The FWC concluded that unverified sightings were so unreliable that they could not be used to evaluate the panther's status or distribution. This uncertainty initiated a range-wide population survey from 1981–1985, that was funded by the NPS and 2 oil companies (Exxon and Natural Resources Development; McBride 1985). At that time, based entirely on verifiable evidence, the panther population on the public and private lands of central and south Florida consisted of only 30 animals (Fig. 1a). The panther's current primary range is shown in Figure 1b.

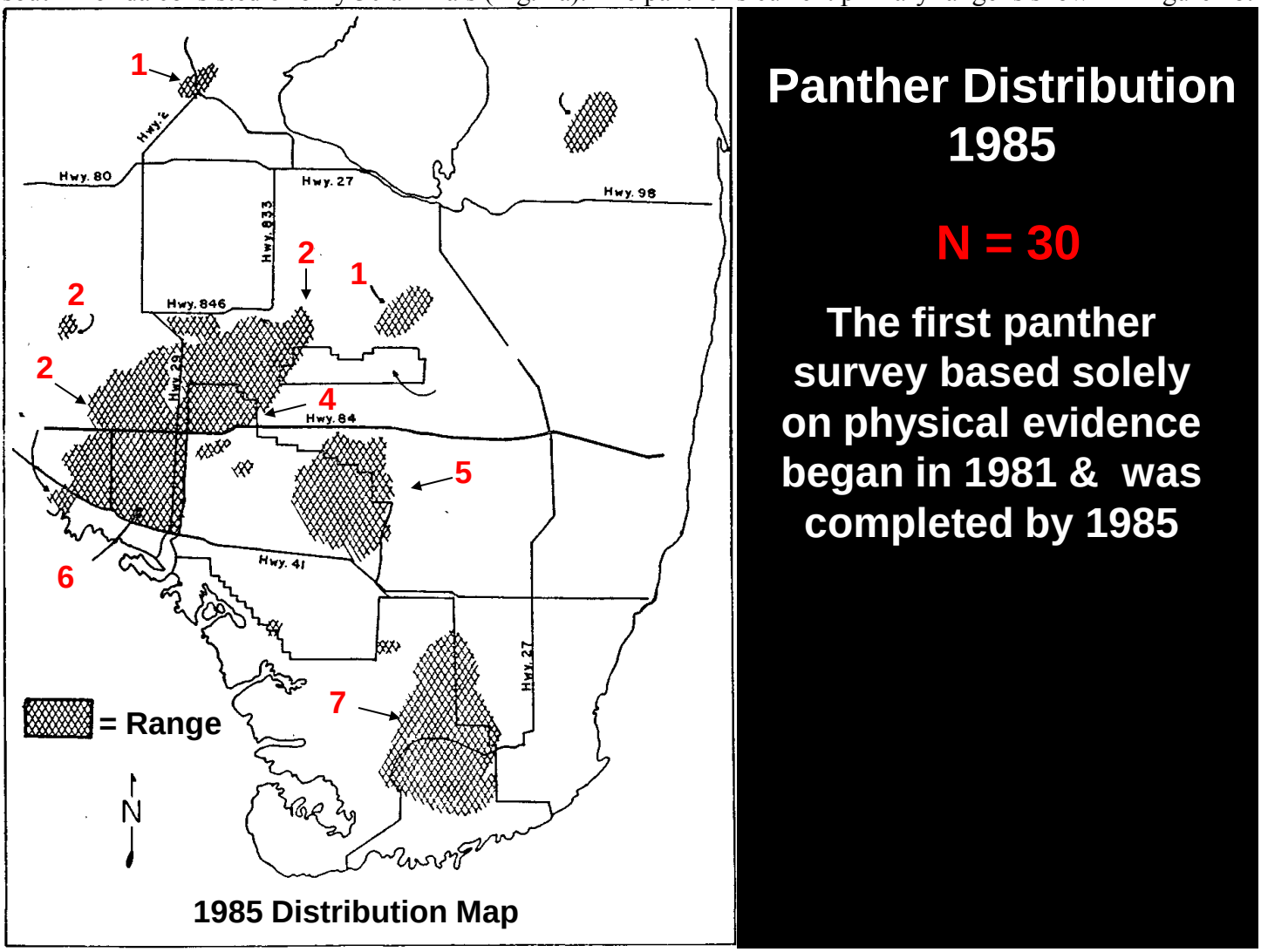

Figure 1a. Florida panther distribution map 1985.

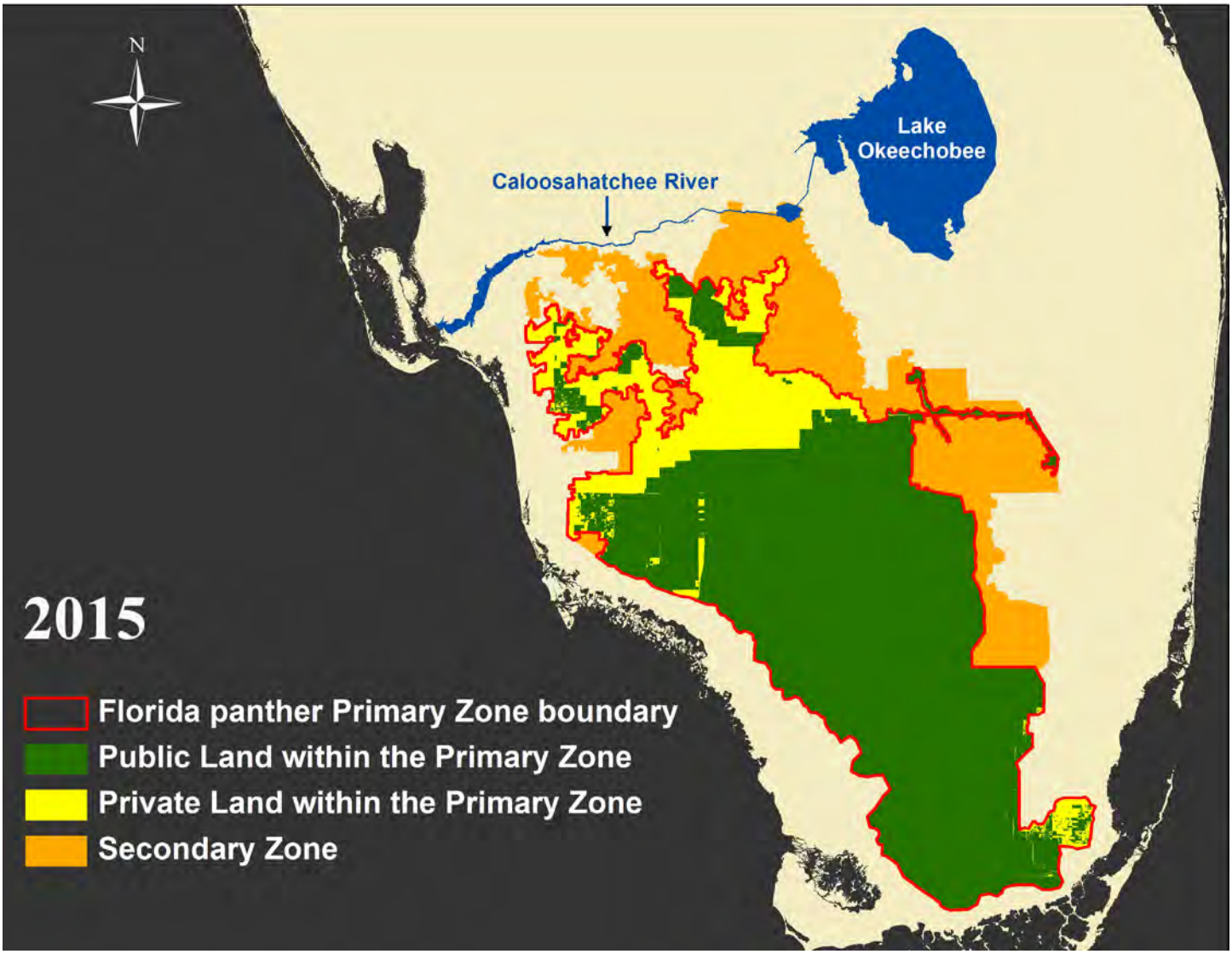

Figure 1b. Florida panther primary zone and secondary zone including public and private lands.

Objectives

Our objective is to offer an alternative to the speculative nature of panther population numbers. To accomplish this goal, we attempted to detect and record the physical evidence of as many panthers as possible during one calendar year. The type of evidence accepted includes:

- photos of panther sign (e.g., tracks, scats, urine markers, kills)
- photos of panthers treed by hounds
- photos of panthers from trail cameras
- photos of panther mortalities
- photos of panthers from telemetry planes
- photos of panthers taken from helicopter deer surveys
- photos of panthers taken by video security cameras
- photos of panthers taken by random chance

This list of criteria is arranged in descending order of discovery and significance. Originally, tracks were by far the most abundant and productive source of evidence for counting panthers. However, trail camera

use is steadily increasing as well as the amount of the photographic evidence collected. Examples of this evidence are found throughout the data sheets that are attached to the rear of the 2014 annual count.

Methods

To facilitate the survey, we divided the occupied range of the panther into 9 units, easily recognized by landmarks such as highways, canals, and rivers (Fig. 2).

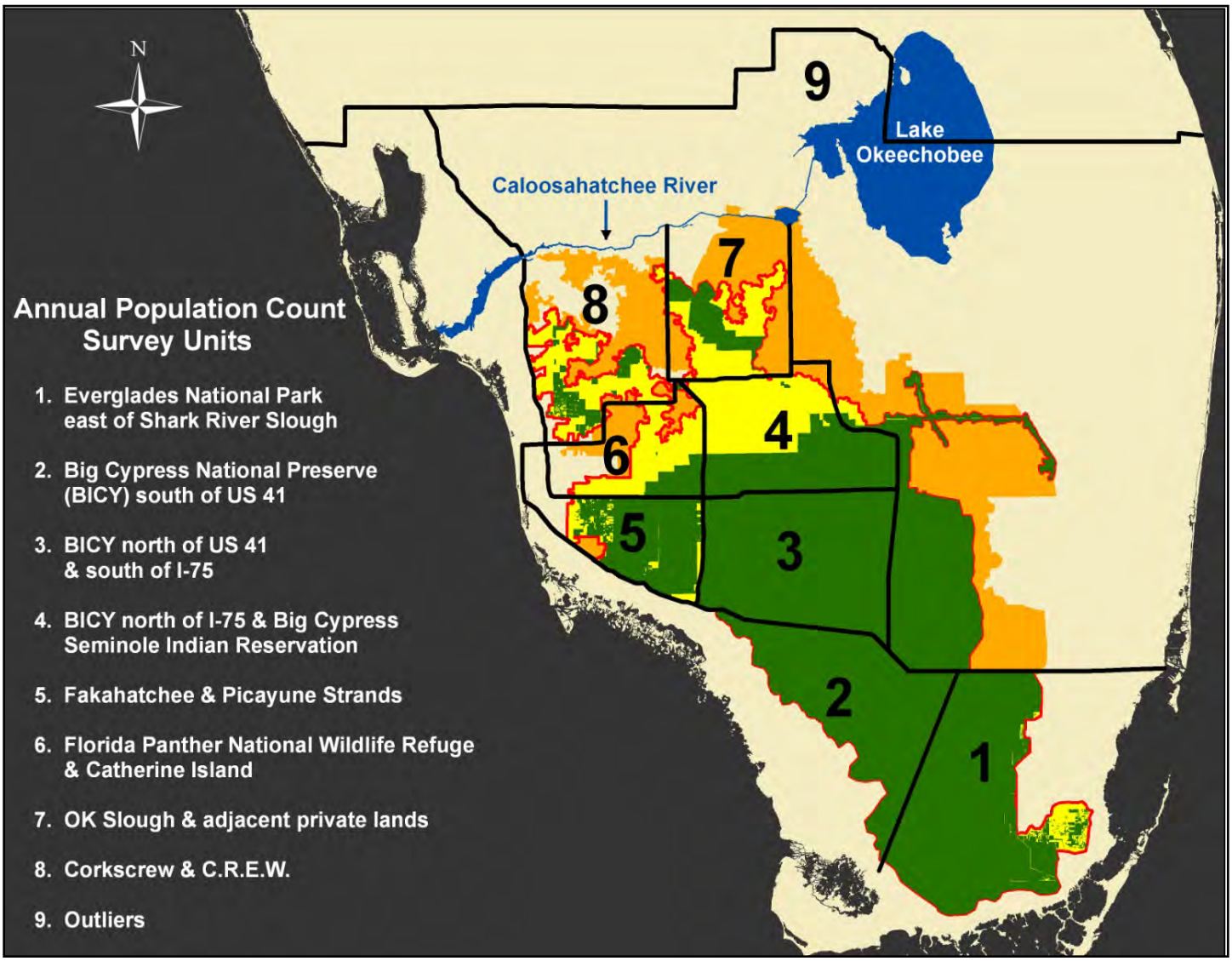

Figure 2. Survey Units.

It is well known that panthers have large home ranges (i.e., 456.0 km2 for males; $n = 91$, and 132.0km2 For females; $n = 108$). The preceding 100% minimum convex polygon (MCP) home range areas were calculated from an analysis of panther telemetry data (1981–2012) from individual panthers that were alive during each month of a calendar year and had at least 1 location each year within either the northern Addition Lands of BICY (283.3 km2) or the Florida Panther National Wildlife Refuge (106.8 km2). When individual panther telemetry location(s) were recorded in both study areas during the same calendar year, only 1 home range area was used in the analysis to avoid double counting.

Panthers are constantly on the move (i.e., hunting, mating, rearing young, and dispersing) and leave abundant evidence in the form of tracks and urine markers scattered over these large territories. Finding their

tracks and other sign is not difficult for a professional puma hunter, even when the population is extremely low. The difficulty arises when trying to determine how many individuals are responsible for making these tracks and sign. Without a safeguard of definitive parameters, an accumulation of tracks/sign left by a single panther may be easily mistaken as a small population. To avoid over counting, we devised a method of exclusion that enabled us to distinguish between individual panthers using a gender, time, and distance rule. We located panther tracks from slow-moving ATVs, swamp buggies, and by walking fire breaks, logging trams, canal banks, and dirt roads. We categorized this data to identify the total number of panthers represented. In 2007, we improved the efficacy of the annual count by incorporating a greater number of surveyors working simultaneously over large areas (synoptic technique; McBride et al. 2008).

The Gender, Time and Distance Rule

Gender. We used track size only to differentiate sex (Fjelline and Mansfield 1989, Ross and Jalkotzy 1992, Stoner et al. 2006). We also did not attempt to identify individuals by measuring track size and acknowledge the difficulties of this technique (Grigione et al. 1999, Karanth et al. 2003). Logan and Sweanor (2001) reported that in a sample of 61 females >17 months old, the width of their hind pads did not exceed 4.8 cm. In a sample of 46 males >17 months old, only 2 were <4.9 cm. Out of their sample of 107 pumas of this age group, pad sizes of only 2 males overlapped those of females. None of the female pad sizes overlapped those of males. To further assist in gender identification we used length of stride by measuring from the heel of the left front foot to the toe of the right front foot (i.e., in a slow walk adult female strides ranged from 46 cm to 55.5 cm, and adult male strides ranged from 61 cm to 74 cm; Fig. 4). During the slow walk, the hind foot is placed closely in front of the front foot (overstep). Other gaits include the hind foot being placed in the track of the front foot or side by side when jumping, etc. *As a cautionary note length of stride should be measured using only the slow walk and only on level ground. The comparison of different gaits vs. the slow walk will invalidate the method.* Before juvenile males reach dispersal age, their tracks and strides have developed sufficiently for gender identification. Once gender was determined, our system used time and distance to differentiate between adult individuals of the same sex. We did not use urine markers to determine gender, even though both sexes make this sign (Fig. 3). However, urine markers are an important and common indicator of panther occupancy.

Figure 3. Male and female panthers' urine marking.

Figure 4. Measuring length of stride.

Time. Rather than relying on subjective track decomposition to determine freshness, our method relied on simply determining if the tracks had been made within the past 24 hours. Thus to age tracks and to make our method accessible to less experienced trackers, we used known events that had occurred within the previous 24 hours (e.g., tracks made after a rain the previous day, clear tracks in loose sand following wind, tracks found on top of our vehicle tracks, or roads we had brushed with a drag the day before, and tracks with lingering scent that could still be detected by trained hounds; even when tracks <24 hours old were visible to observers, our hounds were not able to detect scent trails >12 hours old; Fig. 5).

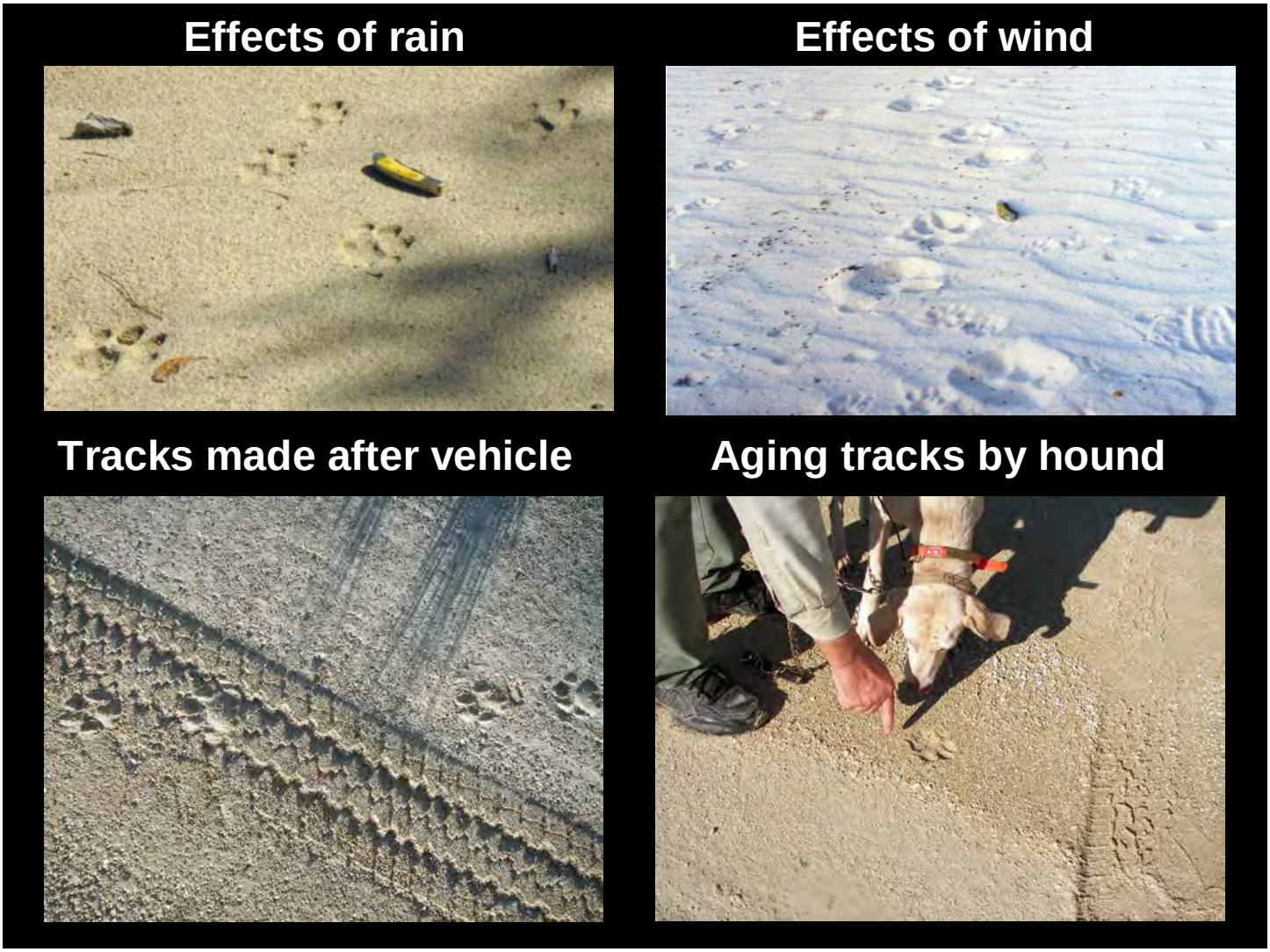

Figure 5. Known events used to determine age of panther tracks.

Distance. Knight et al. (1995) describes using trained observers to record date and distance between sightings of female grizzly bears with cubs-of-the-year to determine distinct family groups. This data was used to estimate a minimum number of adult female bears. In the case of panthers, we relied on recording their tracks instead of visual observations, due to their secretive nature and rarity of sightings. When panther tracks <24 hrs. old were located in a survey unit, we identified them by gender and compared their distance from any additional sets of panther tracks of the same gender found during the same 24-hour period. We applied a distance rule of >10 km to separate individual female tracks from one another (Fig. 6a) and a >17 km rule for separating individual males (Fig. 6b). As an example, female tracks <24 hrs. old and >10 km from the nearest additional set of fresh female tracks were determined to be 3 different females (Fig. 6a). Although we have successfully used this method extensively without the aid of telemetry, telemetry made it easier by enabling us to identify tracks of marked panthers in order to separate them from tracks left by unmarked panthers.

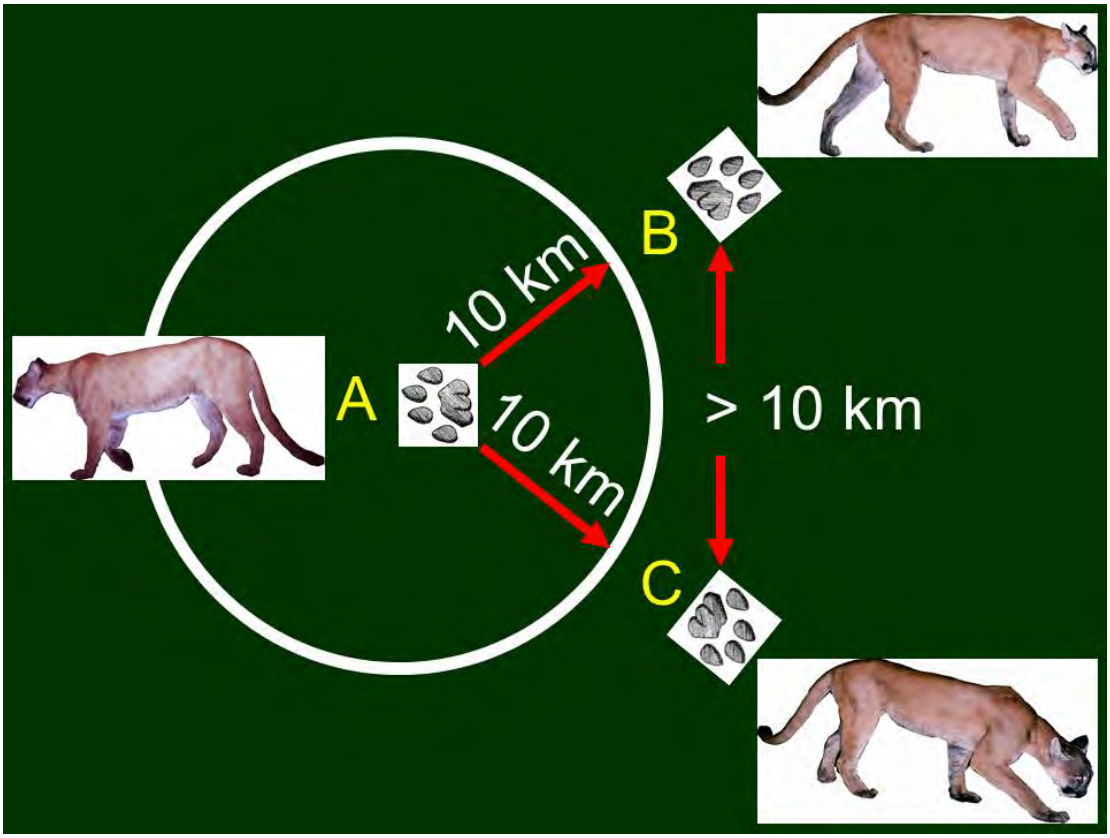

Figure 6a. An analysis of 3,015 daily telemetry locations indicates that 99% of the time female panthers travel less than 10km in 24 hours.

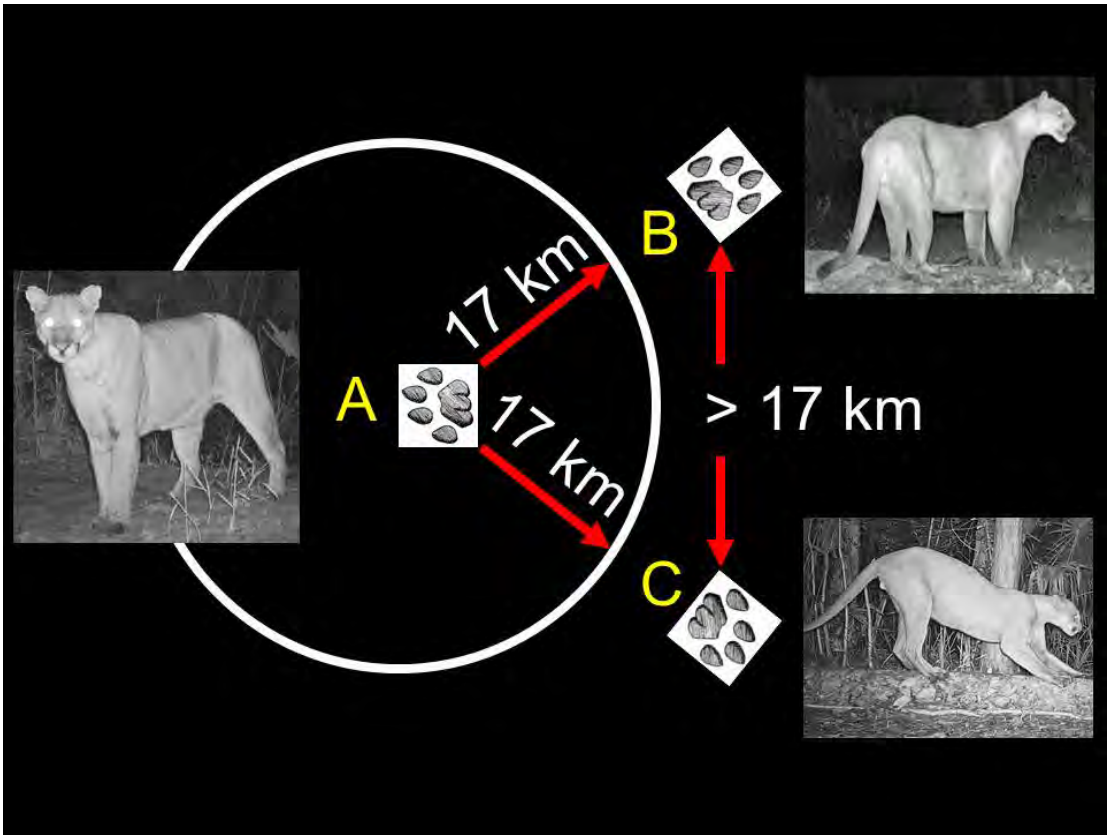

Figure 6b. An analysis of 824 daily telemetry locations indicates that 99% of the time male panthers travel less than 17km in 24 hours. This figure indicates that 3 different males made these tracks.

We originally developed our distance rules based on our experience while trailing pumas with hounds. The maximum distance from point of origin (abandoned kill site) to capture, was <10 km for females and <17 km for males. Janis and Clark (2002) collected daily panther locations in Florida from 1995 to 1998. Although not included in their published research, the 24-hour data collected during their study corroborated our distance rules. Of 3,015 observations of 24-hour movements for females, 99% were <9.6 km, and of 824 observations of 24-hour movements for male panthers, 99% were <16.7 km (M.W. Janis, Texas Parks and Wildlife, unpublished data). More recently, data from 2 GPS collars programmed to collect hourly locations on 1 resident male and 1 resident female provided additional support for our distance rules. The female moved maximum straight-line distances of 0.08 km to 7.4 km (mean = 2.1 km, SE = 0.2, n = 60) from starting locations during 5 randomly sampled 24-hour periods a month from March 2005 to February 2006 (J. Benson, FWC, unpublished data). The male moved maximum straight-line distances of 0.08 km to 8.2 km (mean = 3.5 km, SE = 0.4, n = 25) from starting locations during 5 randomly sampled 24-hour periods per month from April 2005 to August 2005 (J. Benson, FWC, unpublished data). Only the 5-month-period of April, May, June, July, and August was available for the male. It is widely recognized that juvenile male pumas travel extensively during dispersal, but even the longest juvenile male puma movement recorded still averaged well below our 24-hour distance rule for male movements of <17 km in <24hours (Thompson and Jenkins 2005).

In situations where fresh female tracks were found <10 km from another set of female tracks, or male tracks <17 km from unmarked male tracks, the panthers were not added to the inventory. However, repeated searches in each area, afforded the opportunity for track sets to be found far enough apart that they could be identified as separate individuals. Thus, with persistent effort we maximized the possibility that all resident adult and juvenile panthers living on lands accessible to us could be detected. According to Van Dyke et al. (1986) 100% of resident mountain lions, 78% of transient mountain lions, and 57% of cubs could be detected by track searches for known animals in Utah.

As a final tool in differentiating between individuals, we occasionally noted a distinct anomaly in a track (e.g. crooked toes, missing toes, a leading toe, a crooked foot, an injured heel pad, or a female accompanied by juveniles). Even though track irregularities are infrequent, they can be used for conclusive identification. To augment track searches, trained hounds were used to increase the productivity of the survey in areas where tracking was difficult. Hounds relying on a different medium than sight were able to follow panther trails and tree them in areas where tracks were not visible, i.e., through marshes, limestone reefs, and dense vegetation. The hounds were released and allowed to hunt freely near the hunter to maximize the opportunity for them to locate scent trails left by panthers during the night before heat, sun, and wind erased them. Uncollared panthers that were treed by hounds during track surveys were photographed, GPS locations taken, and genders noted.

Regardless of the method (i.e., tracks, treeing with hounds, trail camera photos, or spotting from an airplane), each example was considered confirmation of one unmarked panther, not necessarily the discovery of an additional panther, unless proven by the gender, time, and distance rule.

Since 2008, we have further enhanced our technique for counting panthers by adding as many as 6 trackers, who simultaneously spread out over a pre-determined area. Assisted by hand-held GPS units, the discovery of tracks could be compared to the findings of other team members at the end of each day. This synoptic technique greatly enhanced the efficacy of our survey efforts (for example, see Figs. 6c, d, e).

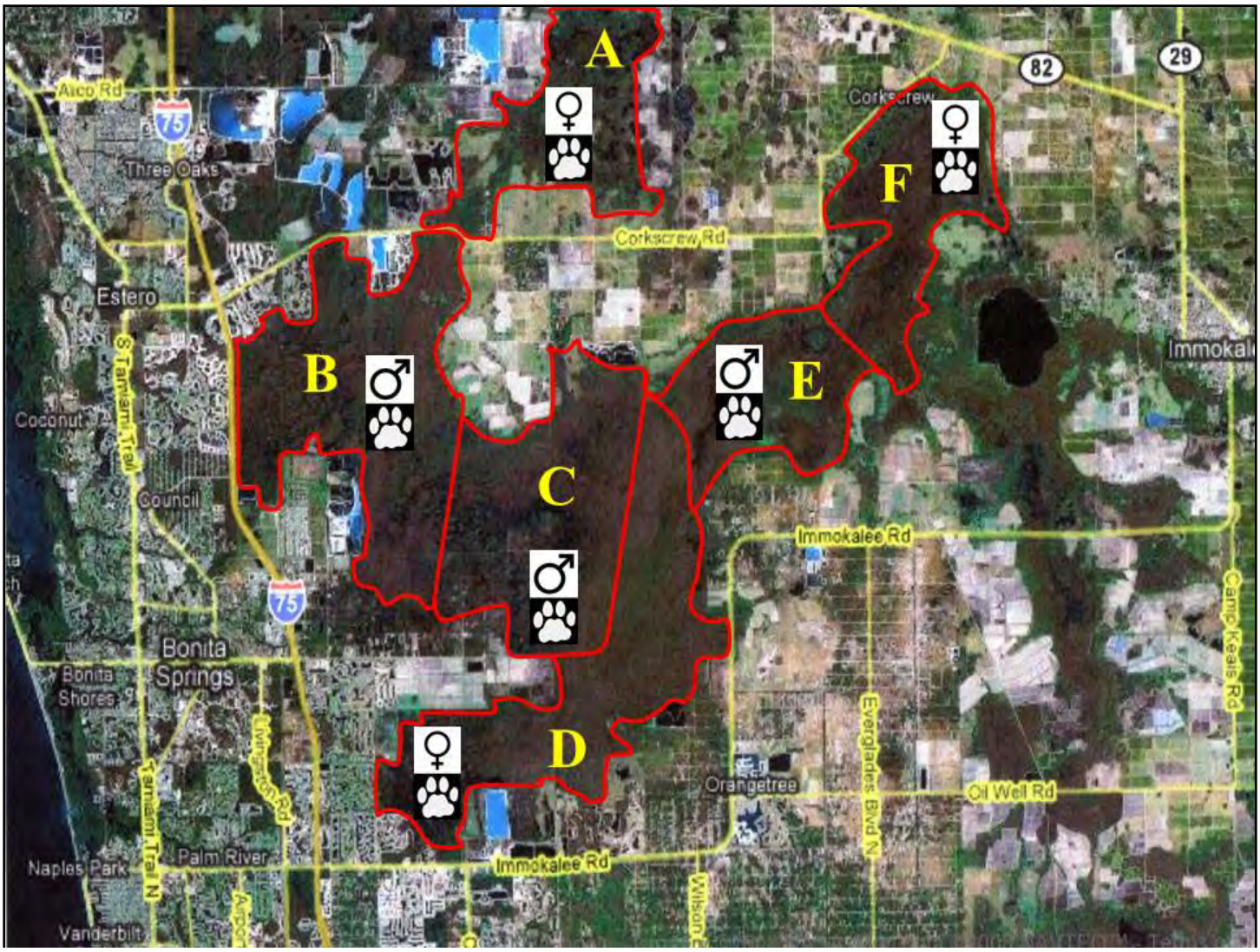

Figure 6c. This figure illustrates observers A through F conducting a synoptic survey within the western Corkscrew Swamp region on 03/25/08. Observers A, D, and F found fresh female tracks as determined by known events. The fresh tracks found by observers A &D were separated by 19km. The fresh tracks discovered by observer F were 15 km east of observer A and 25 km northeast of observer D. By applying the gender, time, distance rules, the tracks were determined to represent 3 different female panthers. Observers B, C, and E found fresh male tracks that were <17 km apart; use of the gender, time, distance rules, suggested the tracks were made by the same individual panther (Fig. 6e). This survey "snapshot" indicated that a minimum of 1 male and 3 females were using this region on 03/25/08. The FWC capture team observers that conducted this synoptic survey were (A) Chris Belden, (B) Marc Criffield, (C) Cougar McBride, (D) David Onorato, (E) Roy McBride, and (F) Mark Lotz.

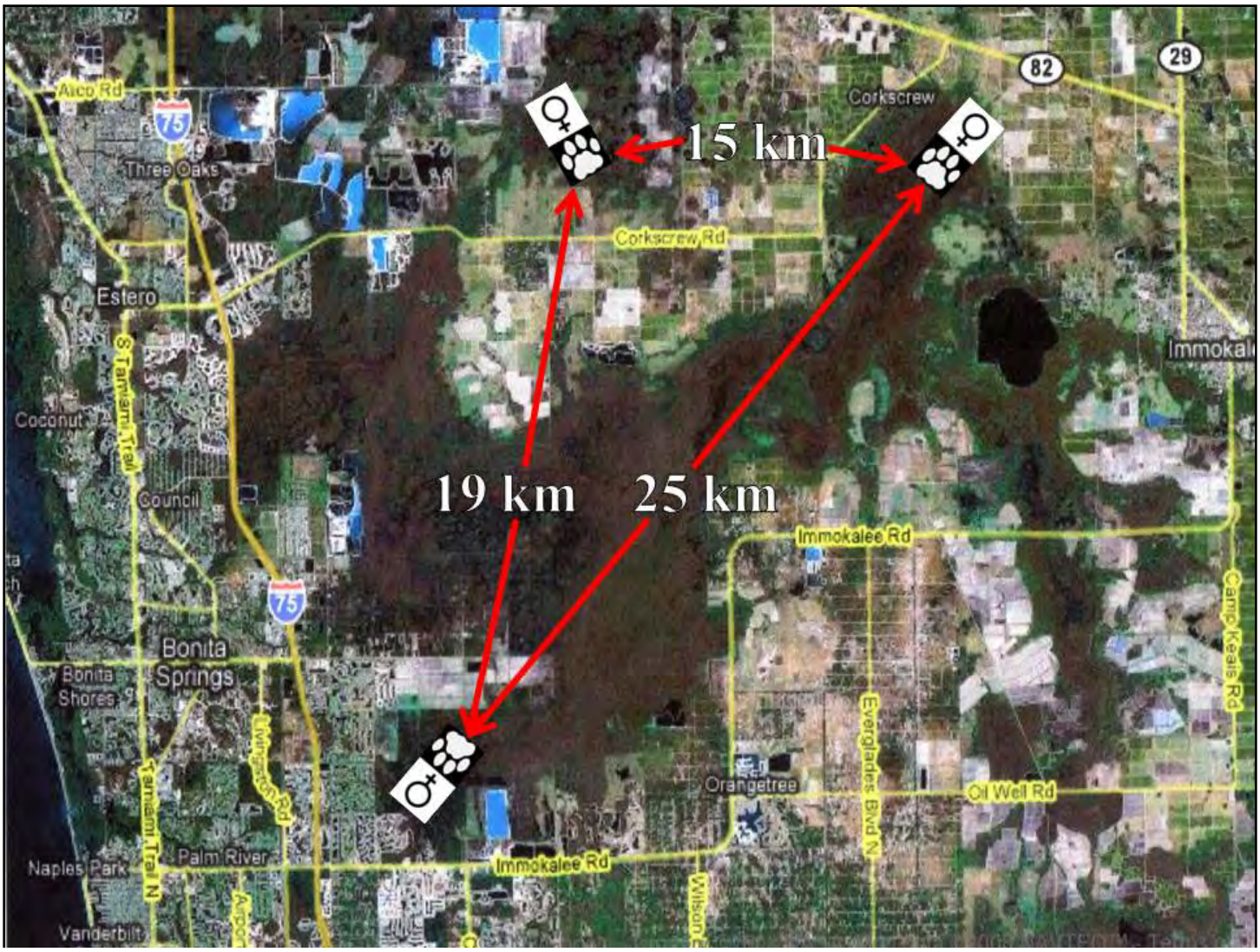

Figure 6d. These female panther tracks, each less than 24 hours old, were >10 km apart and therefore identified as 3 different female panthers.

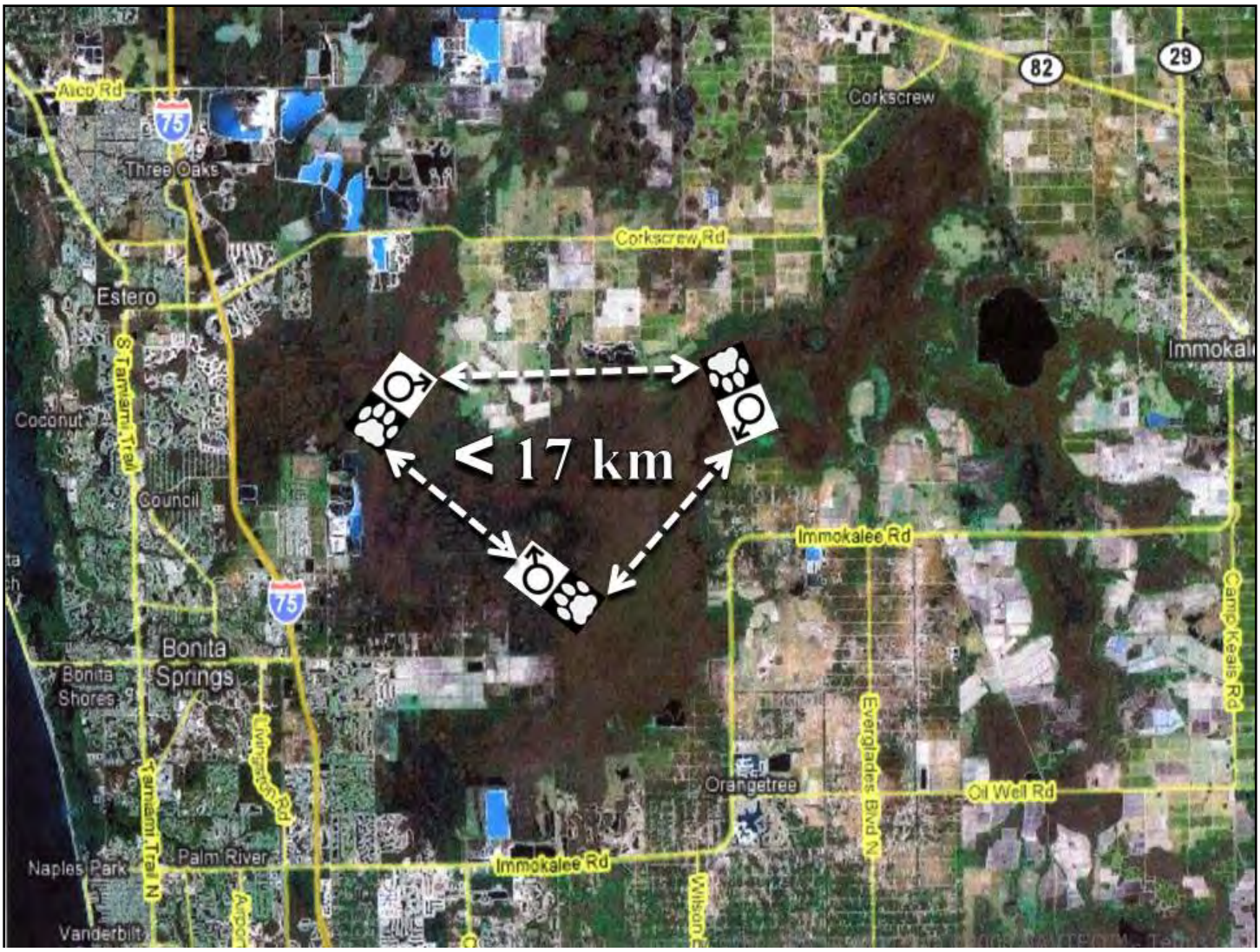

Figure 6e. This figure illustrates fresh male tracks that were observed <17 km apart on 03/25/08 by 3 different synoptic surveyors and thereby determined by applying the gender, time, and distance rules, to be made by the same individual panther. Upon further investigation, this male panther was identified as having a radio-collar which confirmed his location, movements, and the synoptic survey results.

Annual Count

Definition. The Annual Count (Fig. 7) is conducted primarily on public land and represents the number of panthers detected and documented by photographic evidence throughout the calendar year (i.e. January 1 to December 31, 2014). It includes adult, juvenile, and sub-adult panthers. To avoid double counting, kittens are not included in the survey until they reach an age greater than 3 months when their tracks may be found accompanying the adult female. To avoid double counting adult panthers, the synoptic technique is used to identify individuals using a gender, time and distance rule (McBride et al. 2008). All information is recorded on a data sheet, which includes a GPS location, photo of the observation such as panther tracks, panthers treed by hounds, trail camera images, urine markers, scat, and kills. Also the habitat type, the name of the observer(s) and the date are recorded. The data sheets are organized chronologically and are attached to the annual count. Panther mortalities are subtracted from the total count at the end of each calendar year. Unverified sightings, estimates, and extrapolations are not used in the annual count (see methods section). When annual count data is compared with highway mortality data, there is a pronounced correlative trend (Fig. 8). The comparison of annual count data with the number of dispersing panthers across the Caloosahatchee River (Fig. 9), demonstrates that panther reproduction is still confined to south Florida. Since 1974, only male panthers have been documented in central Florida. These males are assumed to be dispersing from the reproductive population in south Florida.

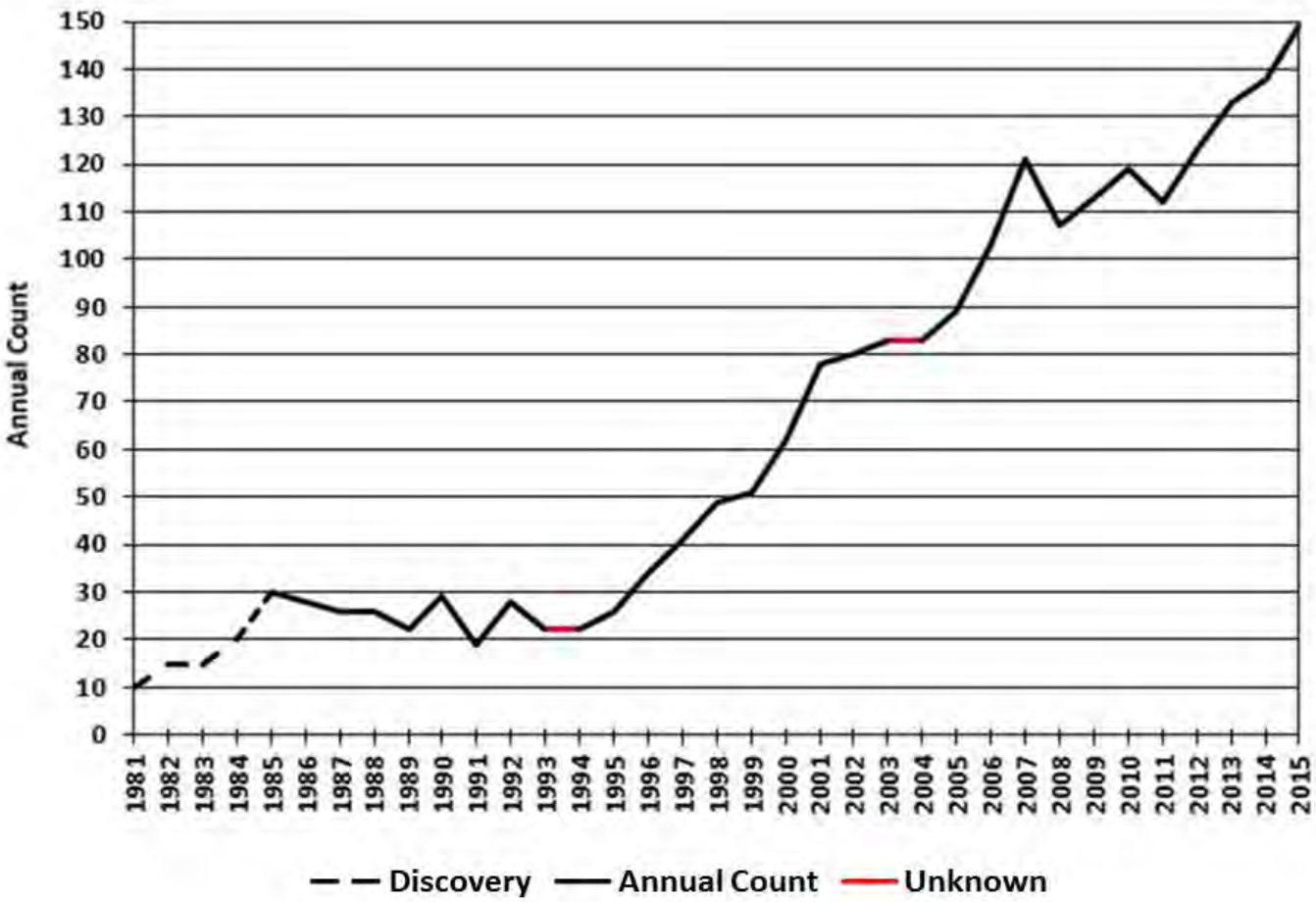

Figure 7. Florida panther annual count 1981–2015.

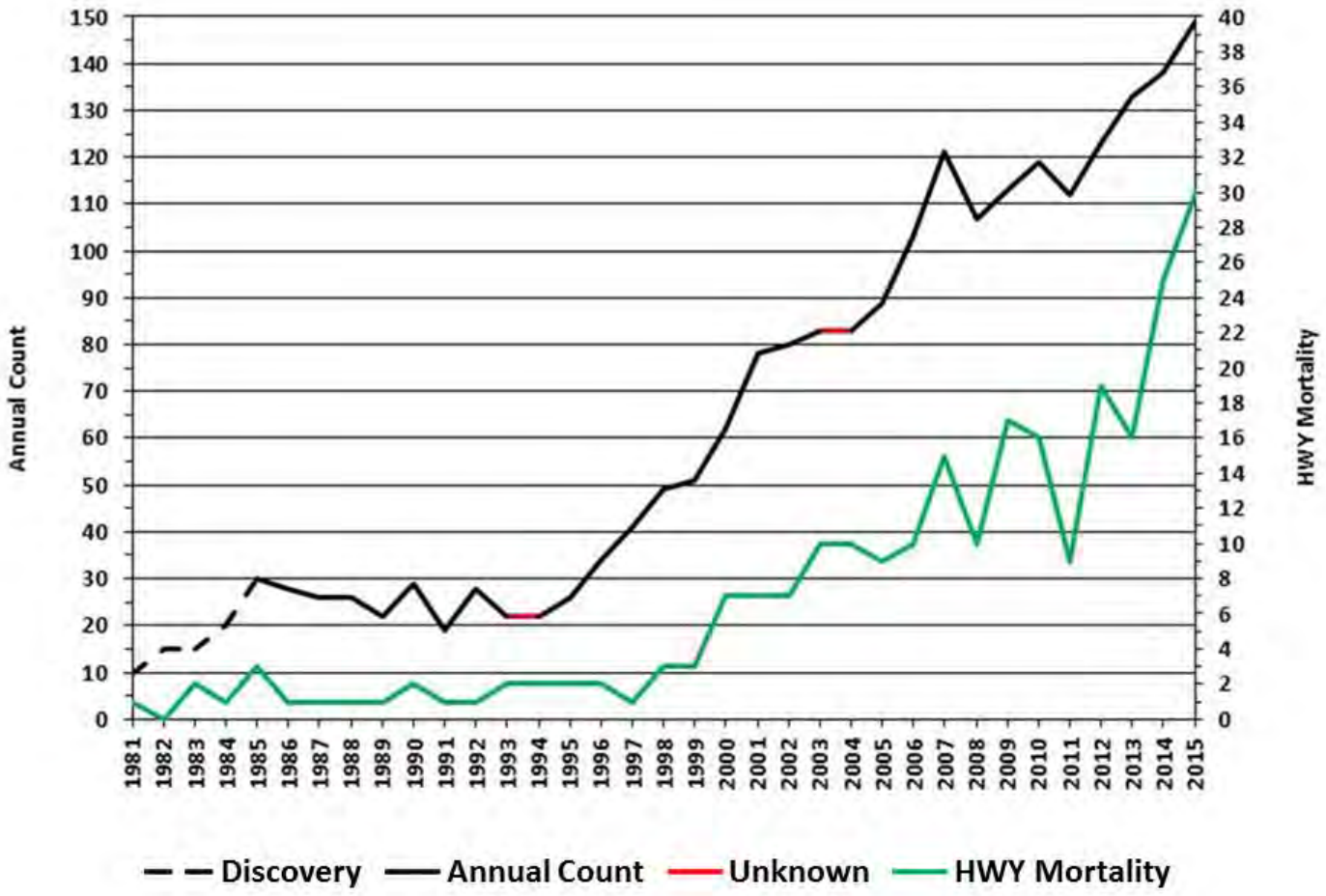

Figure 8. Florida panther annual count compared to highway mortalities 1981–2015.

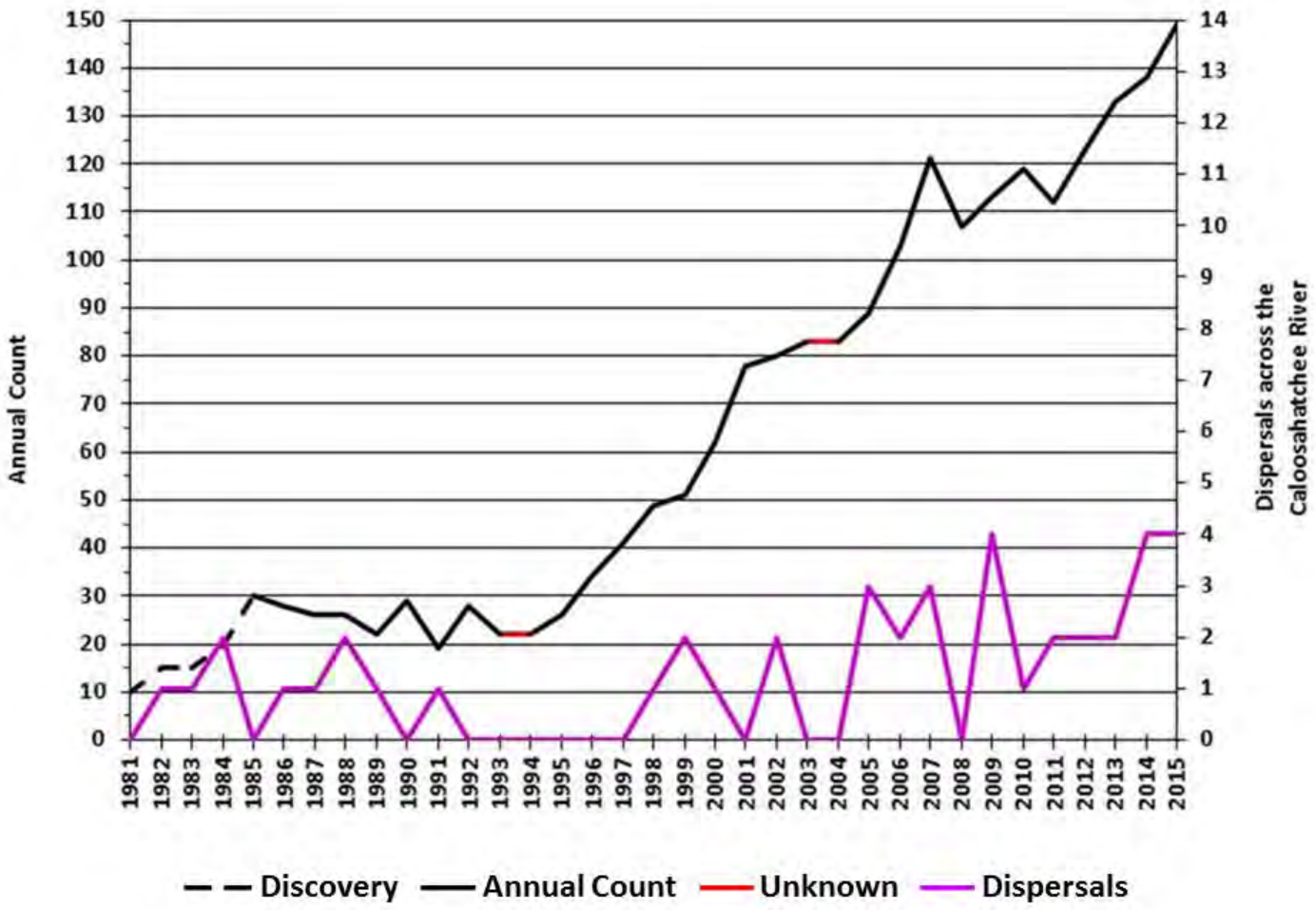

Figure 9. Florida panther annual count compared to the number of panthers that dispersed across the Caloosahatchee River 1981–2015.

Private Lands

It is well known that Florida panthers occur on private lands. Evidence supporting this claim include panthers struck by vehicles which are recovered on roads often bounded on one or both sides by private land. Furthermore, panther tracks are observed periodically on unpaved roads i.e. the sandy roads east of the Hendry County prison, Oil Well Grade, the eastern end of Sears Rd, and West Boundary Rd. Tracks can also be found along the network of SFWMD canal banks i.e. L-28 Interceptor, West Feeder Canal, North Feeder Canal, Miami Mud Canal, and the C-111. In addition, a plethora of confirmed panther depredations involving pets or livestock have invariably occurred on private land.

According to Kautz et.al. (2006) approximately 22% of the Primary Zone is on privately owned lands where access for surveying is limited (Fig. 1b). In spite of this limited access FWC and NPS have collected, by aerial reconnaissance, 106,463 radio telemetry data points from 240 panthers which clearly demonstrates panthers do not recognize property boundaries and move freely across the landscape. In acknowledgement of these chronicled movements, private lands in South Florida cannot be accurately characterized as a detached portion of habitat that contains a separate or isolated population of panthers. The large home range sizes of male panthers which average 38,000 ha / 93,860 ac. increases the likelihood for overlap across the mosaic of private and public land (See figures 11a, 11b, 12a, 12b, 13a, and 13b). Even the smaller home range of a single

female panther which averages 12,000 ha. / 29,640 ac. provides abundant opportunities for its tracks, urine markers, scats, and kills to be observed across numerous tracts of land representing multiple owners.

In summation, there is only one panther population in Florida, and it is connected geographically and genetically. However, limited access to private land negates the possibility of conducting panther surveys similar to those performed on public lands, therefore we are unable to provide a comprehensive annual panther count that is inclusive of both areas.

Trail Cameras

During a 2-year trail camera study funded by the NPS, we deployed an array of 35 cameras that enclosed approx. 30,000 acres in the northern Addition Lands of BICY (McBride and Sensor 2015). Our primary goal was to measure the effectiveness of trail cameras to identify individual panthers. Cameras were placed strategically along known panther travel routes where we had repeatedly observed their tracks and urine markers during the past 34 years while trailing them with hounds. At each camera site, a scent lure was used that encouraged panthers to linger in the field of view, increasing the opportunity to observe anomalies that could assist in identification of individuals, such as ear notches (Fig. 10a), cowlicks, scars, crooked tails, etc.

Figure 10a. Example of an anomaly that helped identify this individual panther on multiple occasions.

Panthers were captured by our cameras 2,154 times. These captures produced 38,056 panther photos. From this aggregate of photos, we were able to identify all resident males, both collared and un-collared, and all collared females (Fig. 10b). However, for identification of un-collared female panthers we were forced to rely on age and size of their dependent kittens. The absence of anomalies on adult female panthers prevented us from identifying them consistently and with absolute certainty, despite thousands of opportunities to do so.

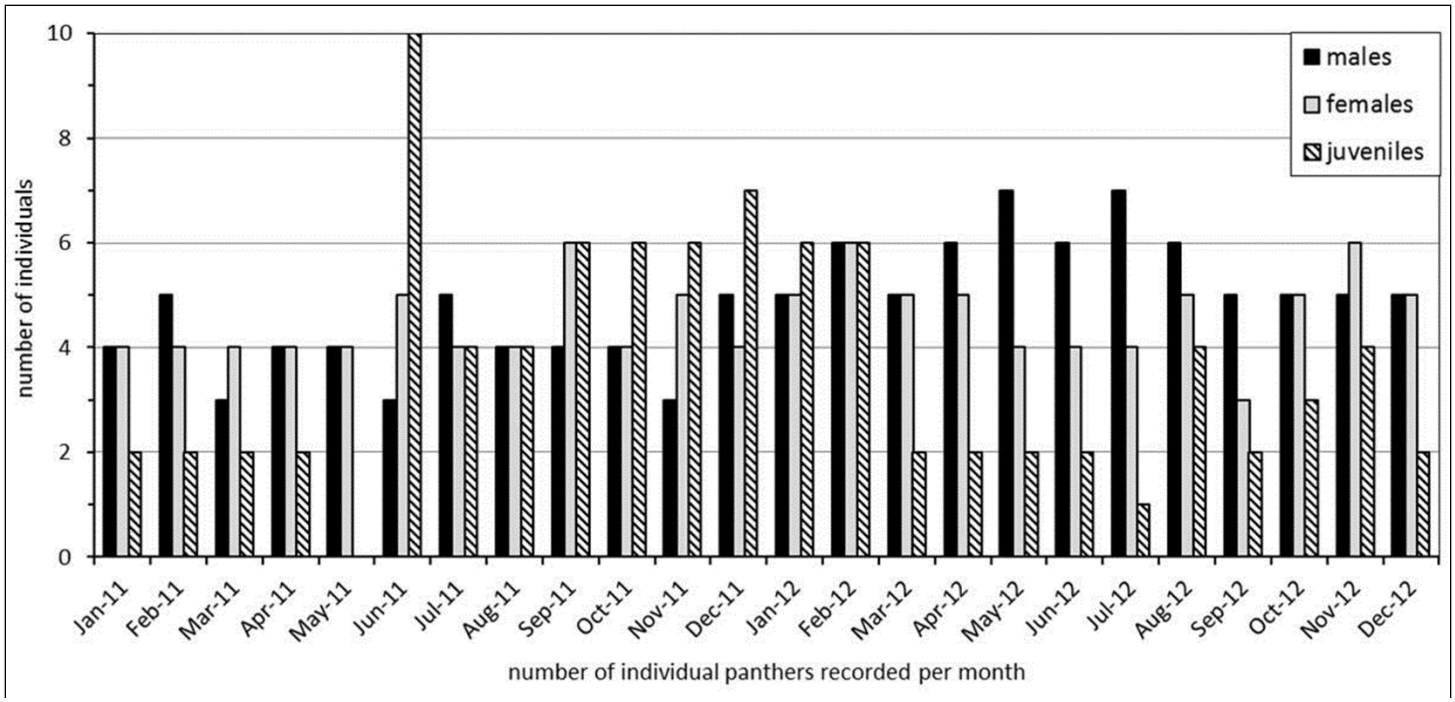

Figure 10b. Mean number of individual panthers identified per gender-age class per month in the Addition Lands study area, Jan 2011–Dec 2012.

Despite the difficulties of identifying female panthers, trail cameras record useful information such as occupancy, kitten survival, use of wildlife underpasses, general health, prey availability, plus social and scent-marking behaviors – none of which can be acquired by radio-telemetry. In addition, trail cameras can obtain this data at a fraction of the cost of radio-telemetry and with zero risk of injury or death to panthers during captures.

While we consider the modern trail camera to be a useful addition as a tool to monitor panthers, there is a risk that the accumulation of unidentified panther photos from a study area could result in an exaggeration of the population size, particularly if these photos are incorrectly categorized. Hopefully, additional analytical tools will be developed so that unidentified photos can be accurately classified as known panthers or new panthers. Moreover, understanding the size of the area that is sampled by a camera array is essential for determining panther density. If the total area sampled by the camera array is underestimated, panther density in the study area will be overestimated. Extrapolating exaggerated panther densities from a small area to a broader landscape will overstate the actual population number (Figs.11a, b; 12a, b).

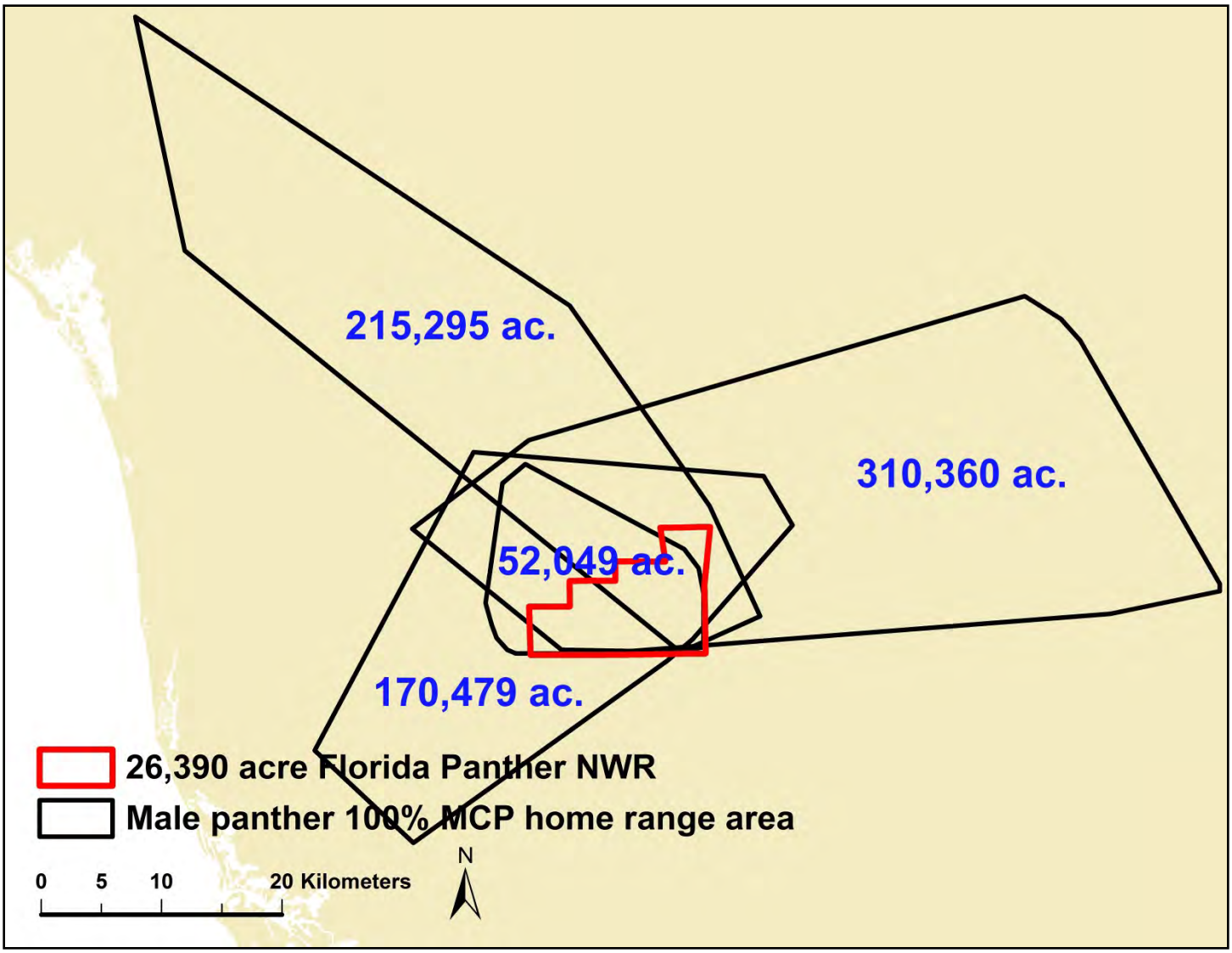

Figure 11a. The 100% minimum convex polygon (MCP) male panther home range areas (n = 4) shown in Figure 11a, were calculated from an analysis of panther telemetry data (1981–2012) from individual panthers that were alive during each month of a calendar year and had at least 1 location each year within the boundary of the Florida Panther National Wildlife Refuge (106.8km2). This depiction of the historical use of a specific area by 4 male panthers illustrates the difficulty of determining their density and measuring the size of the area sampled. Extrapolating exaggerated panther densities from a small area to a broader landscape will invariably overstate the actual population number.

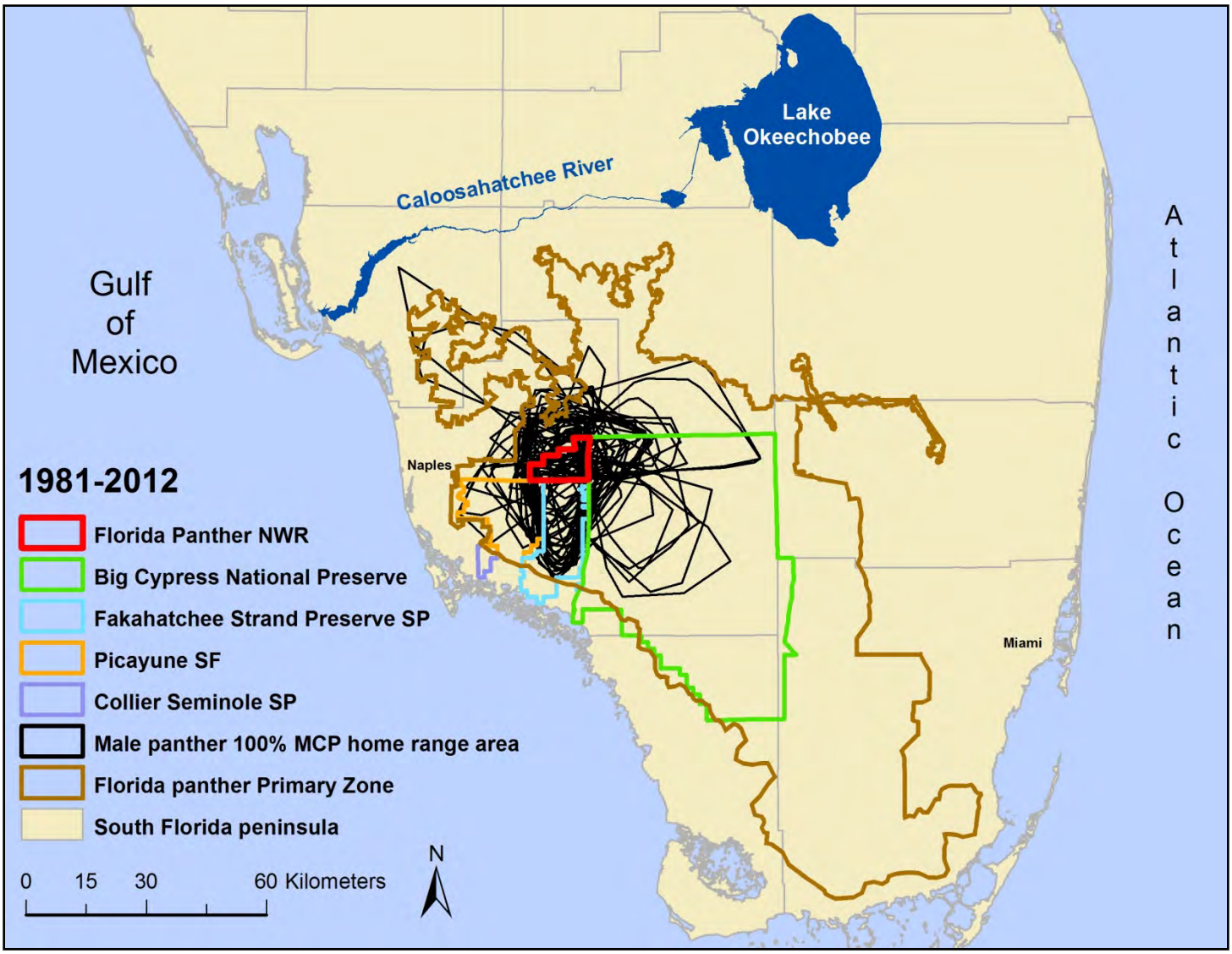

Figure 11b. The 100% minimum convex polygon (MCP) male panther (n = 23) home range areas (n = 62) shown in Figure 12, were calculated from an analysis of panther telemetry data (1981-2012) from individual panthers that were alive during each month of a calendar year and had at least 1 location each year within the boundary of the Florida Panther National Wildlife Refuge (106.8km2).

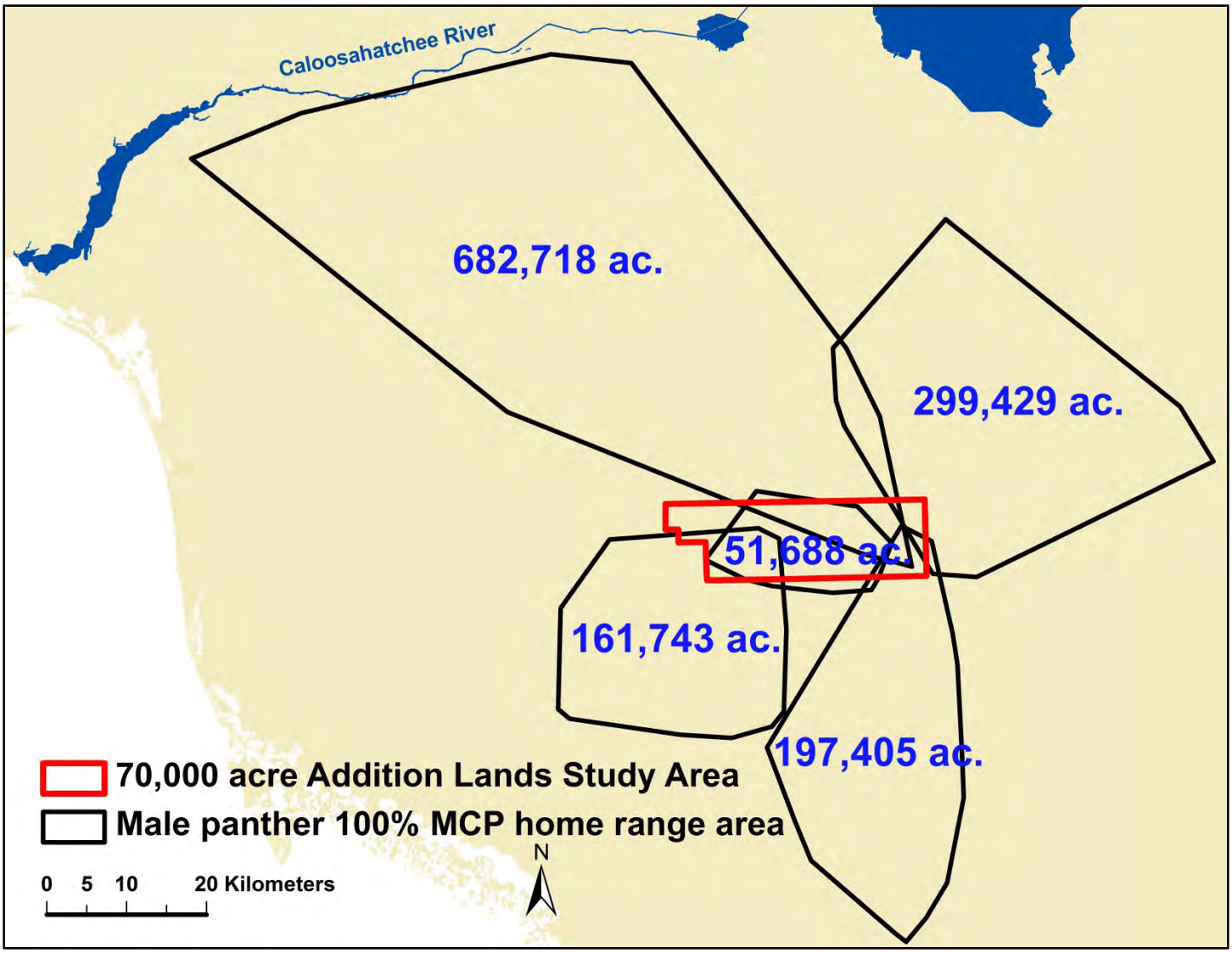

Figure 12a. The 100% minimum convex polygon (MCP) male panther home range areas (n = 5) shown in Figure 12a, were calculated from an analysis of panther telemetry data (1981–2012) from individual panthers that were alive during each month of a calendar year and had at least 1 location each year within the boundary of the northern Addition Lands of Big Cypress National Preserve (283.3 km2).

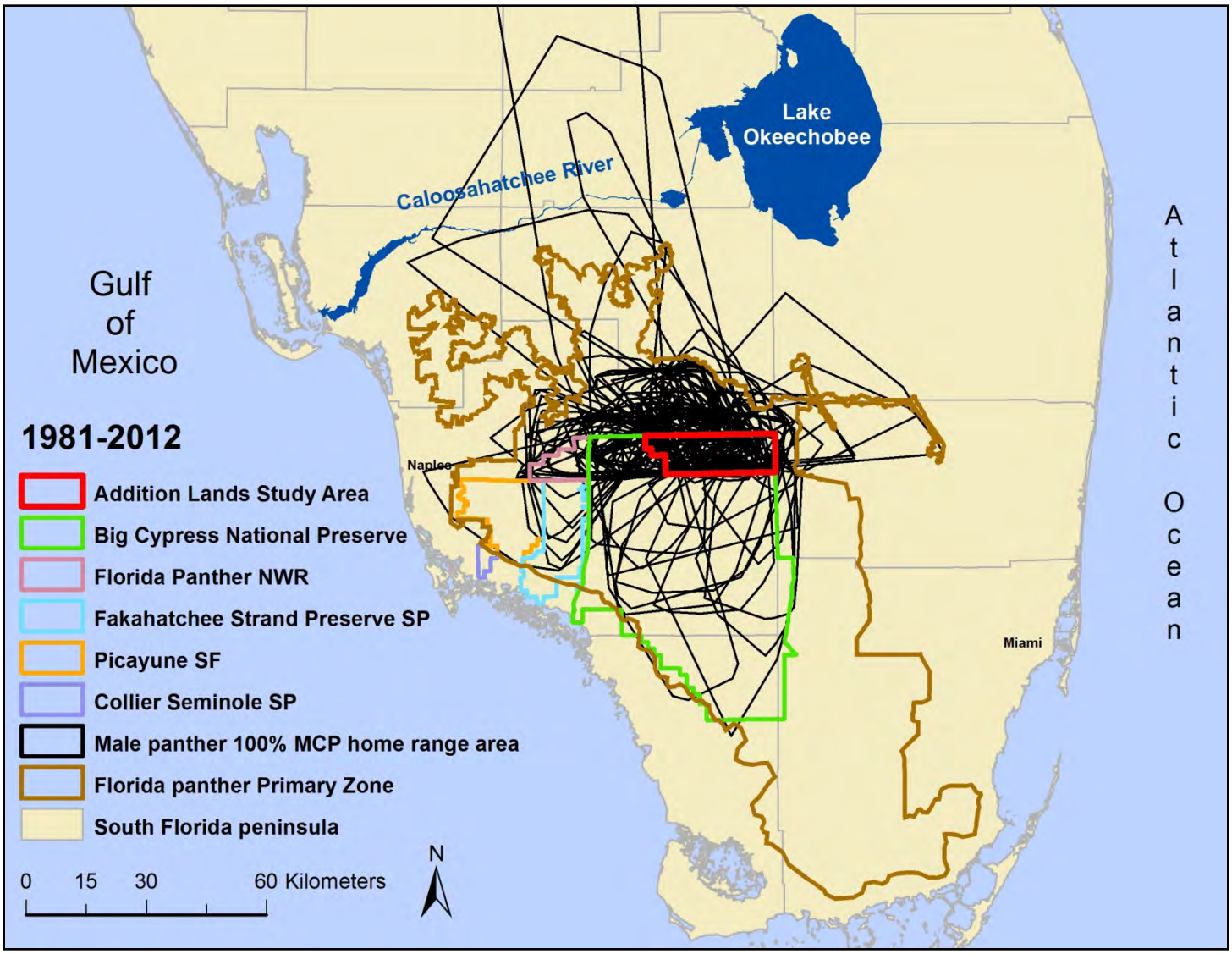

Figure 12b. The 100% minimum convex polygon (MCP) male panther home range areas (n = 63) shown in Figure 12b, were calculated from an analysis of panther telemetry data (1981–2012) from individual panthers that were alive during each month of a calendar year and had at least 1 location each year within the boundary of the northern Addition Lands of Big Cypress National Preserve (283.3 km2). This depiction of the historical use of a specific area by 25 male panthers illustrates again the difficulty of determining their density and measuring the size of the area sampled. Extrapolating exaggerated panther densities from a small area to a broader landscape will invariably overstate the actual population number.

Decline in male/female panther home range sizes over the last 3 decades

After completion of the panther distribution survey in 1985 (McBride 1985), it was discovered that reproduction occurred in 3 primary areas (highlighted in green; Fig. 13a). Over time we found that the central and southern reproduction areas (identified by yellow stars; Fig. 13a) declined in numbers to a point where reproduction ceased by 1995.

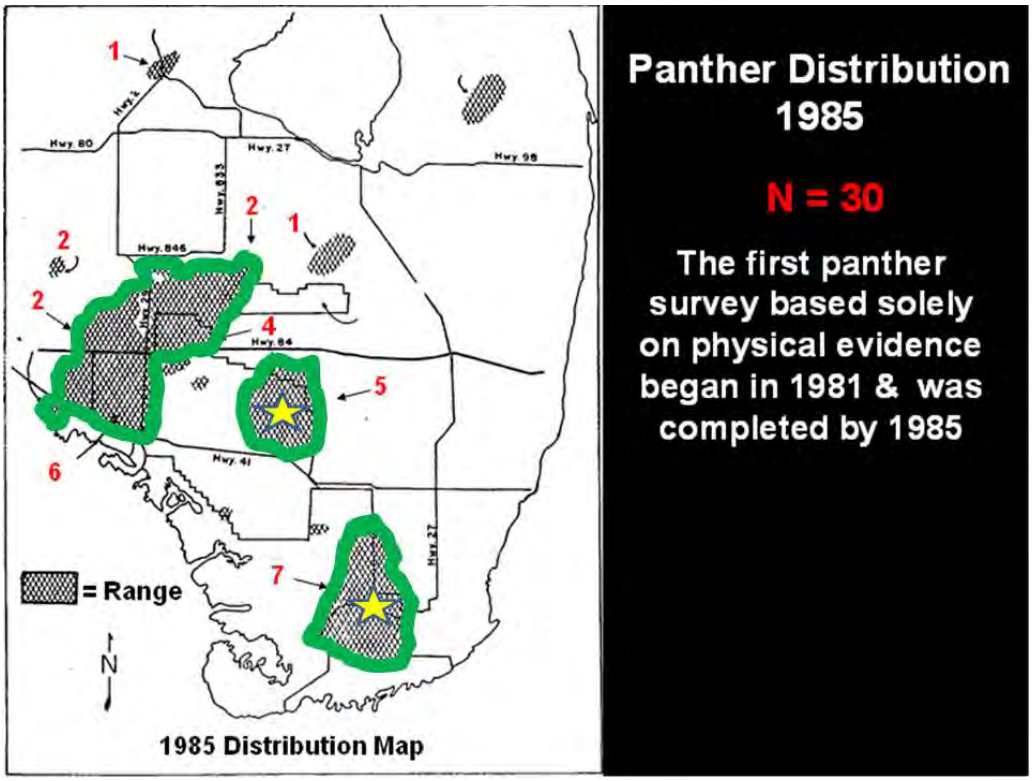

Figure 13a. 1985 panther distribution map showing where panther reproduction had ceased by 1995.

After the genetic rescue in 1995, panther numbers began to increase and the formerly separated reproduction areas (Fig. 13a) became one large unit (Primary/Secondary Zones, Figure 1b; Kautz et al. 2006, McBride and Sensor 2014). Analysis of panther data following a 2-year trail camera study in the northern Addition Lands of BICY (McBride and Sensor 2015) demonstrated that home range sizes had declined over time for panthers that had used the study area. Therefore, we decided to run an analysis of panther telemetry data (1981–2013) from all radio-collared panthers alive during each month of a calendar year and having ≥50 telemetry locations, to determine the change, if any, to panther home range sizes range-wide.

Home range analysis results.

Our home range analysis (1981–2013) showed that mean home range size (mean ± 1 SD) was 20,134.3 ± 20,567.1 ha for females (n = 291) and 55,153.2 ± 64,843.3 ha for males (n = 174). Four hundred and sixty-five home ranges from 1981–2013 declined in area for both male and female panthers which is demonstrated by the trend line slope angles illustrated in Figures 13b, c.

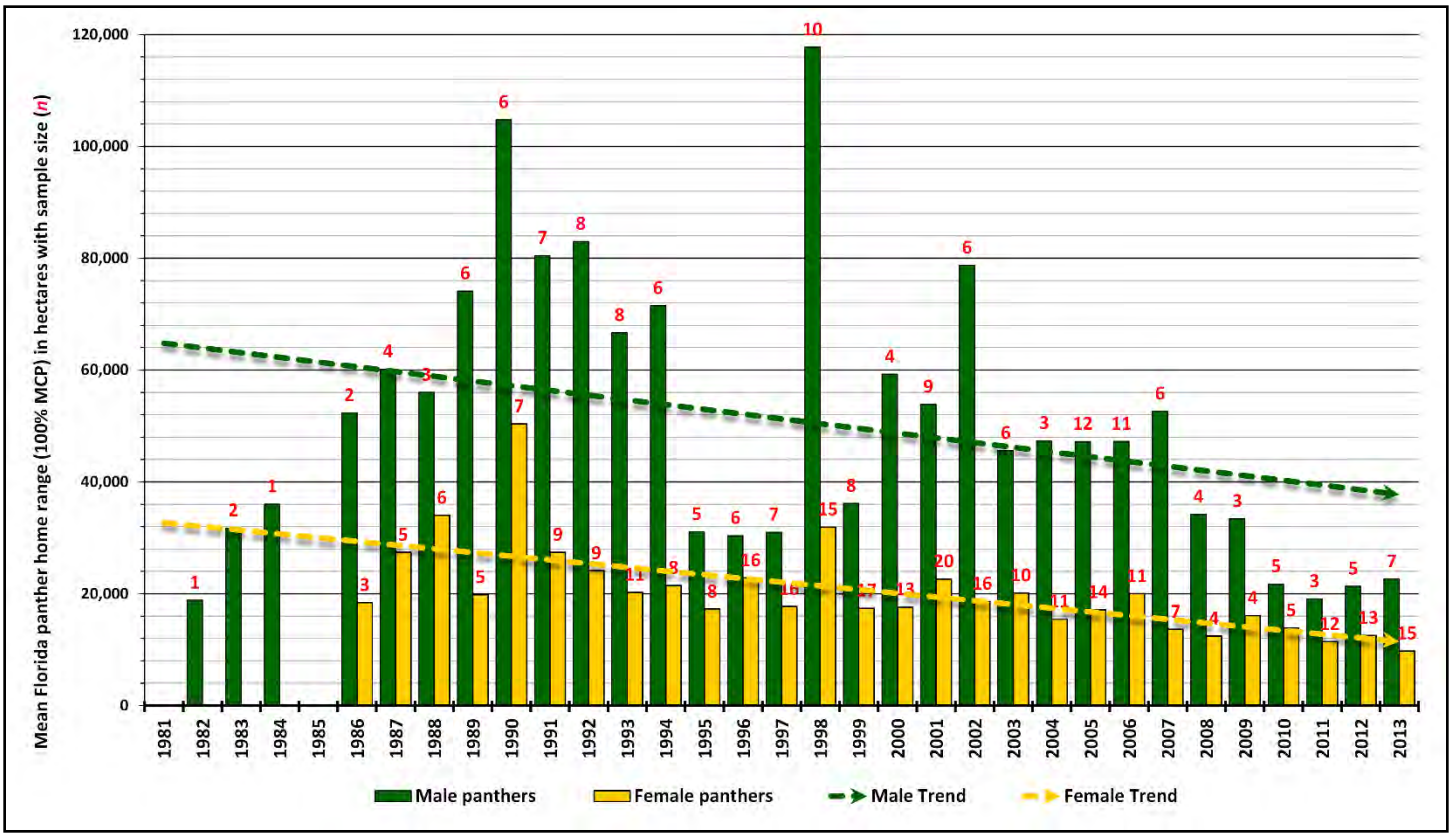

Figure 13b. The 100% minimum convex polygon (MCP) estimator home range areas were calculated from an analysis of panther telemetry data (1981–2013) from all radio-collared panthers alive during each month of a calendar year and having ≥50 telemetry locations (n= 465 home ranges; 291 females, 174 males) (data source: BICY-NPS, FWC). We used ArcView 3.3 (ESRI, Redlands, CA, USA) and Animal Movement Analyst Extension (AMAE; Hooge and Eichenlaub 2000) software to calculate 100% minimum convex polygon (MCP; Mohr 1947) estimator home range areas. We used MS Excel (Microsoft, Redmond, WA, USA) software to analyze spatial data, generate summary statistics, and create tables/figures.

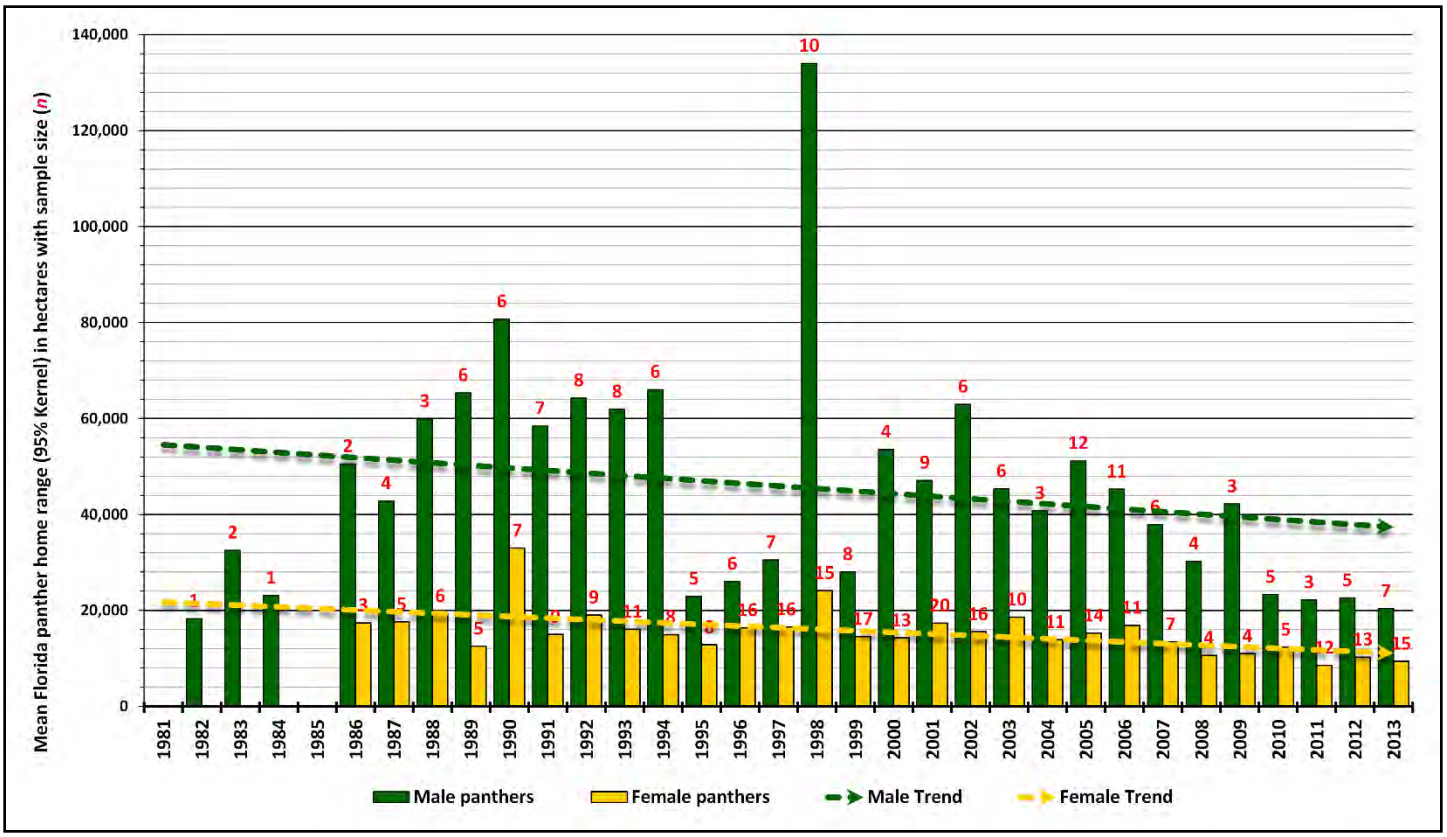

Figure 13c. The 95% fixed-kernel density (KDE) estimator home range areas were calculated from an analysis of panther telemetry data (1981–2013) from all radio-collared panthers alive during each month of a calendar year and having ≥50 telemetry locations (n= 465 home ranges; 291 females, 174 males) (data source: BICY-NPS, FWC). We used ArcView 3.3 (ESRI, Redlands, CA, USA) and Animal Movement Analyst Extension (AMAE; Hooge and Eichenlaub 2000) software to calculate 95% KDE (Worton 1989; Seaman and Powell 1996) home range areas. To minimize smoothing (Worton 1989; Seaman and Powell 1996) we used least squares cross validation (LSCV). We used MS Excel (Microsoft, Redmond, WA, USA) software to analyze spatial data, generate summary statistics, and create tables/figures.

Conclusion

Since 1972, the Livestock Protection Co. has provided evidence based Florida panther population counts for WWF, FWC, BCNP, FSSP, SWFWM, PSSP, FPNWR, ENP, BCSIR, and OKWMA. The Annual Count has been jointly funded by the WWF (1972–1974), FWC, USFWS, NPS (1981–present) and is currently ongoing. Although there are differences in opinion about how many panthers there are, most everyone can agree that their numbers have increased significantly since genetic restoration in 1995. From 1981–1994 (14 years) 19 panthers were killed on highways, compared to 2012 when 19 panthers were killed on highways in a single year (Fig. 8). According to interagency Florida Panther Response Team reports, livestock and pet depredations have increased. Incidences of intraspecific aggression related panther mortalities have increased (see 2015 Annual Count index). The panther capture rate with hounds between 1981–1994 averaged 19 days of effort-per capture; the panther capture rate between 1995–2014 has improved to <6 days of effort-per capture (McBride 2008; McBride and Sensor 2014), and panther dispersals crossing the Caloosahatchee River have increased (Fig. 9).

In 2003, the USFWS selected a panel of scientists (Scientific Review Team) to conduct a comprehensive review of Florida panther literature. The Scientific Review Team's report was critical of and cautioned against extrapolations of panther density because of variations in habitat quality across the primary zone (Beier et al. 2003). Therefore, it is important to continue to develop methods to count panthers that can be defended by empirical evidence. The consequences of an exaggerated count based on unverified sightings, extrapolations, and flawed data in computer models could lead to faulty management decisions and ultimately jeopardize panther recovery.

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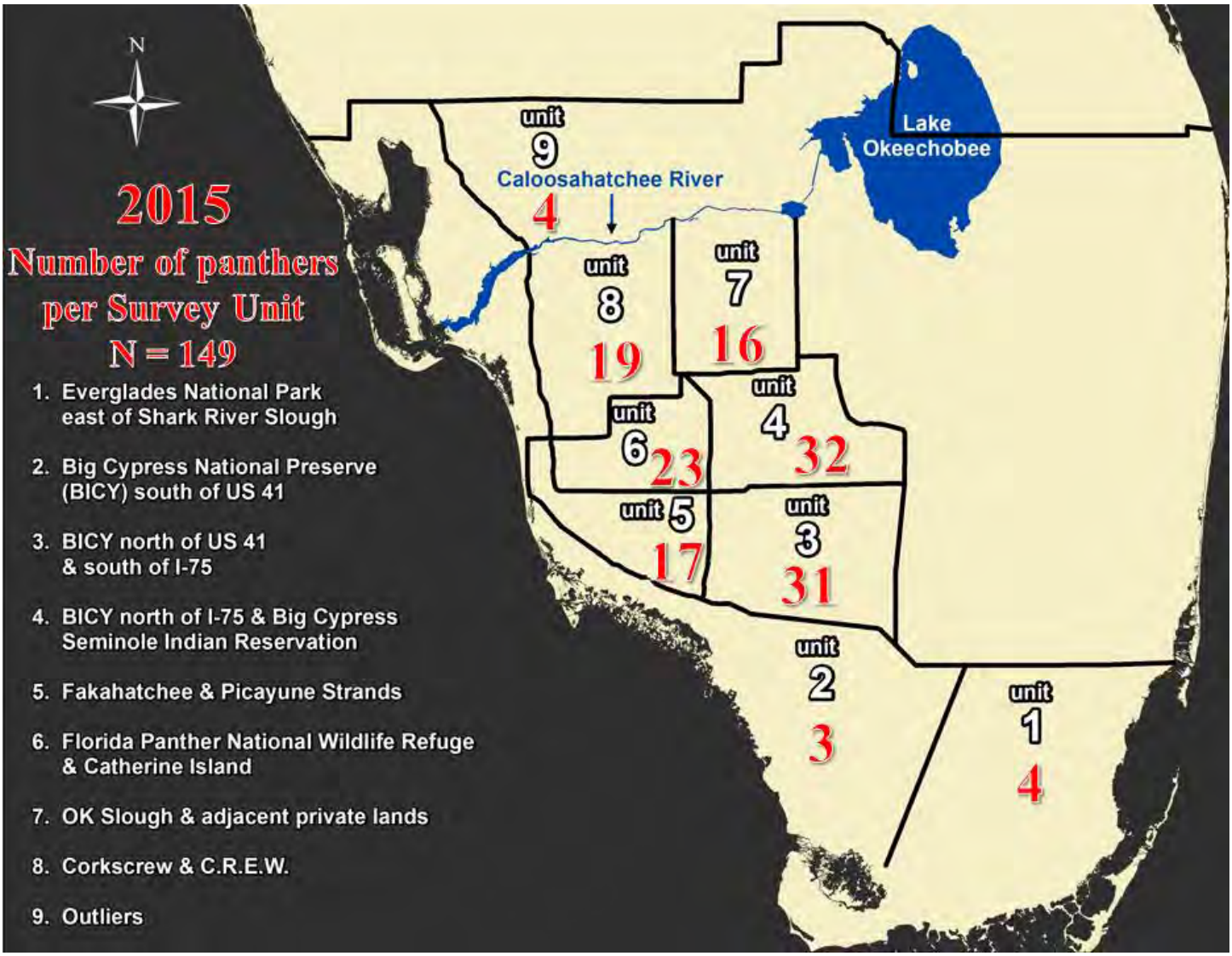
Annual Count

Florida Panthers Documented in 2015

Definition: The Annual Count is conducted primarily on public land and represents the number of panthers detected and documented by photographic evidence throughout the calendar year January 1 to December 31, 2014. It includes adult, sub-adult, and juvenile panthers. To avoid double counting, kittens marked at the den are not included in the survey until they reach an age where their tracks may be found accompanying the adult female. To avoid double counting adult panthers, the synoptic technique is used to identify individuals using a gender, time and distance rule (McBride et al. 2008). All information is recorded on a data sheet and includes a GPS location, photo of the panther or its tracks, the habitat type, the name of the observer(s), and a brief observation of what type and how information was collected (i.e., treed by hounds, trail camera images, tracks, urine markers, scat, and kills). Panther mortalities are subtracted from the total count at the end of the calendar year. Unverified sightings, estimates, and extrapolations are not used in the annual count (see methods section).



Annual Count

Florida Panthers Documented in 2015

Unit	Carry-over	New Panther	Documentation and history Un-collared Panthers (●)	Mortality & Removals
1.ENP **Total panthers:** **4**			● Jan 5, adult male, trail cam, LPK Jan 23, adult male, trail cam, LPK (conf) April 9, adult male, trail cam, LPK (conf) ● Mar 16, adult female, trail cam, LPK Mar 23, adult female, trail cam, LPK (conf) ●●Jan 13, adult female w/1 juv, trail cam, LPK	
2.BCNP **South of US 41** **Total panthers:** **3**			●Feb 14, adult male, tracks, scrape (Monroe South) ●Feb 14, adult male, tracks, (Jim Dill Rd) ●Feb 14, adult female, tracks	
3. BCNP **North of US 41,** **South of I-75**	#145♀fc #151♀ #152♀ #153♀ #161♀fc #162♀ #180♀ #187♂ #190♀fc #191♀ #192♀ #214♀ #93♀ #220♀ #221♀ #230♂	#239♀ #240♀	Jan 18, adult female #151 re collared (NPS Capture Team) (conf) ●Jan 25, female #221 w/ 1 juv, trail cam photo (BICY) Feb 11, adult female # 192 re collared (Raccoon Point) Feb 12, Female kitten (9 mos.) treed and collared. NP #239♀ Feb 14, adult female #221 re collared (conf) Feb 18, adult female treed and collared NP #240♀ Feb 19, adult female #93 with failed collar re - collared (conf) Feb 20, adult male #183, trail cam photo (Deep Lake) Feb 24, adult female #162 re collared (conf) Feb 28, adult female #180 re collared (conf) ●Mar 11, adult male, trail cam Photo (BICY) Mar 27, adult male #230, trail cam photo (Racoon Point) ●Mar 30, adult male, treed by hounds TRR Apr 21, adult male, treed by hounds (conf) May 7, adult female #220 treed by	Aug 10, #240♀ ISA Feb 13 #191♀ cause u/k Feb 25 #183♂ Hwy June 11, male, Hwy June 16, #153♀, cause u/k Sept 28, male, Hwy Dec 2, #93♀, cause u/k

Total panthers: **31**			hounds(conf) ●June 7, adult male, trail cam photo, (BICY SR 29) June 8, adult female #221, trail cam photo (BICY) ●●June 9, treed 1 juv, photographed a second on the way to tree, kittens of #220♀ Jul 7, adult female #220 treed by hounds with male kitten (conf) ●July 25, adult female, trail cam photo (deep Lake) Sept 24, adult female, treed by hounds, (conf) ●Aug 6, adult female w/1 juv, trail cam photo (Deep lake) Aug 17, adult male, trail cam photo (BICY) Pine Oaks Rd)(conf) Sept 20, adult male, trail cam photo (BICY) (Deep Lake)(conf) Sept 26, adult female, trail cam photo (BICY) ●●Oct 22, adult female #192 w/2 juvs, trail cam photo (raccoon point) ●Nov 2, adult female, trail cam photo (Raccoon point) ●Nov 2, adult male, trail cam photo (Raccoon Point) ●Dec 18, adult male, trail cam photo (BICY SR 29)	
4. BCNP North of I-75 Bear Island, Addition Lands & BCSIR	#163♂ #167♂fc #175♀ #177♂ #178♀ #184♀ #199♀ #216♂ #225♂ #226♀ #227♂ #228♂ #229♂	#233♂ #234♂ #235♂	Jan 6, young male treed and collared (NP #233) Jan 7, adult male treed and collared (NP #234) Jan 8, adult male treed and collared (NP #235) Jan 9, recollar #199♀ (conf) Jan 14, adult panther, sex u/k, trail cam photo, (Add Lands), (conf) Jan 17, adult male, trail cam photo (conf) (Add Lands) (UGA*) Jan 20, adult male, trail cam photo (conf) (add Lands) (UGA*) ●Jan 21, adult female, trail cam photo (add lands) (UGA*) ●Jan 21, adult male, trail cam photo (add lands) (UGA*) ●●Jan 24, adult female w/ 1 juv. Trail cam photo (Pauline Haas, BCSIR) ●Jan 26, adult male, trail cam photo (add lands) (UGA*)	Apr 13, female, Hwy Sept 22, male, 4 mos. added to detection Hwy Dec 21, male, Hwy

<u>Total panthers:</u> **<u>32</u>**			●Feb 1, adult male, trail cam photo (B.I.) (UGA*) ●Feb 1, adult female, trail cam photo (B.I.) (UGA*) ●Feb 4, adult female (seems skinny), trail cam photo, (add lands) (UGA*) ●Feb 4, adult male (very scarred up), trail cam photo (B.I.) (UGA*) Feb 19, adult female, trail cam photo (B.I) (UGA*) Feb 24, adult male (red tag left ear), trail cam photo (B.I) (UGA*) ●Mar 3, adult female, trail cam photo (add lands) (UGA*) Mar 5, adult male, trail cam photo (add lands) (UGA*) ●Apr 16, adult female treed by hounds (B.I.) ●●Apr 17, adult female, adult male, tracks, signs of mating in road (B.I.) May 21, adult panther, sex u/k, trail cam photo (Haas) (BCSIR) May 24, adult male, trail cam photo (Haas) (BCSIR) (conf) June 6, adult female, trail cam photo (Haas) (BCSIR) (conf) ●July 25, adult male, trail cam photo (B.I) (UGA*) Aug 3, adult male #234 treed by hounds, (conf) Aug 4, adult male #216, red tags in ears, treed by hounds (conf) Aug 8, adult female, trail cam photo (B.I.) (UGA*) ●Sep 22, male 4 mos old, hwy mort ●Oct 16, adult male, (top of right ear cut off) trail cam photo (add lands) (UGA*)	
5. <u>FSSP</u> and <u>PSSP</u> **<u>Rookery Bay</u>** **<u>Collier Seminole</u>** **<u>State Park</u>**	#148♀ #183♂ #193♂ #195♀ #219♀		Jan 26, adult male #193, treed by hounds, attempted re collar (conf) ●Jan 29, adult female, tracks (Belle Meade) ●Jan 29, adult female, tracks (Picayune) ●Jan 29, adult male, tracks (Belle Meade) ●●Feb 18, adult female w/1 juv, tracks (East Blocks) ●Mar 27, sub-adult male, treed by hounds (E. Blocks) ●Apr 1, adult male, tracks, South Blocks ●Apr 1, adult male, tracks, Belle Meade (Belden) Aug 19, adult male, adult female, trail cam	Jan 25, male, Hwy Feb 6 male, cause u/k Mar 20, #148♀, ISA Apr 3, male, Hwy

<u>Total panthers:</u> **<u>17</u>**			photo (R Pires) (conf) ●●Oct 10, adult female (conf) with 2 juveniles (new) ●Oct 31, orphaned male, starved 4 mos ●Nov 2, orphaned female, 4 mos trapped and removed to permanent captivity	July 30, female, Hwy Sept 18, #219♀, Hwy Sept 30, female, Hwy Oct 31, male, orphaned / starved, added to detection total Nov 2, female, trapped and removed to permanent captivity, added to detection total Nov 23, male, Hwy
6. <u>FPNWR</u>& Catherine Island Gldn Gate Estates	#113♀f.c #215♂ #222 ♀ #224♀		Jan 2, adult female #195, trail cam photo ●Jan 2, sub adult female, trail cam photo ●Jan 3, adult male, trail cam photo (R.Pires) SR 29 underpass ●●Jan 6, adult female and adult male, female with broken tail, trail cam photo (R. Pires) Jan 14, adult female, trail cam photo, (FPNWR)(UGA*) Jan 17, adult male, trail cam photo, same male from Jan 6, (conf) (R. Pires) ●Jan 23, adult female, trail cam photo (R. Pires) SR 29 ●Jan 27, adult male, trail cam photo (R.	Jan 16, female, Hwy Mar 8, male, Hwy Mar 22, male, Illegal take July 5, male, Hwy July 30, male

Total panthers: **23**			Pires) SR 29 ●Feb 23, new adult male with same broken tailed female (R. Pires) SR 29 ●Mar 1, adult male, trail cam photo (FPNWR) (UGA*) ●Mar 22, adult female #222 w/1 juv, trail cam photo (FPNWR) (UGA*) Mar 12, adult female with broken tail, treed by hounds (conf) FPNWR Apr 5, young male, possible kitten of #222, trail cam photo (FPNWR) (UGA*) Aug 18, adult male, trail cam photo, (R Pires) (conf) ●May 6, adult female #222 w/ 2 juv (conf of earlier juv) trail cam photo (FPNWR) (UGA*) ●Jul 30, 4 mos. old kitten, hwy mort. 4 mos ●●Sept 6, adult female w/ 2 juvs, trail cam photo (FPNWR) (UGA*) ●Sept 10, adult female, trail cam photo, (R Pires) ●Sept 15, adult female, personal observation with photo (Golden Gate Estates) Sept 15, adult female, treed by hounds (conf) Sept 25, adult female #224 was at the location of a depredation in GGE ●●●Oct 28, adult female and 2 juvs, trail cam at depredation site (GGE) ●Dec 12, adult male, tracks at depredation site (GGE)	4 mos. Hwy Oct 23, #222♀, Hwy
7. OK WMA/ DINNER ISLAND WMA/ SPIRIT OF THE WILD WMA/	#110♀ #213♀ #223♂ #217♀ #218♀		●Feb 16, adult female, tracks (OKWMA) ●Feb 24, adult female, tracks (OKWMA) ●Feb 24, adult female, tracks (OKWMA) ●Mar 6, adult male, tracks, trailed by hounds (OKWMA) ●Mar 6, adult male, tracks, trailed by hounds	Feb 15 male, Hwy May 19, female, Hwy

Total panthers: **16**			(OKWMA) ●●Aug 16, adult male and female, personal observation with photo (Felda Fl.) Orange grove ●Sept 20, adult male, trail cam photo (Korn) (SR 80 underpass) ●●●Adult female w/ 2 juvs, personal observation w photo (La Belle)	July 13, male, Hwy Dec 8, female, Hwy Dec 30, female, Hwy
8.Corkscrew/ C.R.E.W/ Port Authority/ Flint Pen/ Pepper Ranch **Total panthers:** **19**	#159♂ #198♀	#236♂ #237♂	●●●●Jan 1, adult female (Nikki) w/ 3 juvs, trail cam photo (Arwood) Jan 1, adult female #198, trail cam photo (R. Pires) conf. ●●●●Jan 2, adult fem w/ 3 juvs (R.Pires) Jan 12, adult female #198 re collared (conf) Jan 16, adult male treed and collared (NP #236♂) ●Jan 19, adult panther, sex u/k, treed by hounds ●Jan 20, dispersal age juveniles, male and female. Treed by hounds (female) and bayed by hounds (male). Male received collar (#237) female was not collared ●Feb 23, adult male, scrape (Pepper ranch) ●Feb 27, adult male, Trail cam photo (Roy and Patsy) Mar 5, adult panther, trail cam photo (Pepper ranch) ●Mar 11, adult female, trail cam photo (R. Pires) Alico underpass ●Mar 16, adult male, trail cam photo (R. Pires) Alico underpass Mar 29, adult male, trail cam photo, conf of male from 3-16 Apr 6, adult male #236, tracks / scrapes (conf) (Criffield) Apr 7, adult female, tracks (conf) (Criffield) ●Jul 6, adult male, trail cam photo (Cork) Jul 14, adult female #198 w/uncollared male (conf) Jul 20, adult male #236, trail cam, Bonita Bay (R Pires) (conf)	Jan 20, female, Hwy Mar 30, #237♂, ISA Apr 27, #159♂, cause u/k Apr 30, male, Hwy Dec 15, female, Hwy
9. Outliers	#232♂		Feb 15, collared male #232, trail cam photo (Korn) (Paynes creek)	Jan 24, male, Hwy

Total panthers: **4**			●Mar 21, adult male, trail cam photo (Korn) (Lone Ranger) ●Apr 30, adult male (fatty) trail cam photo (Korn) (Babcock) ●Apr 30, adult male, trail cam photo (Korn) (Babcock)	July 8, male, Hwy Oct 8, female, Hwy Nov 25, male, Hwy Dec 16, male, Hwy
Total: 149				**Mortality Total: 41**

Total number of panthers detected from Jan. 1st – Dec. 31st 2015= 149
Total number of panther mortalities from Jan. 1st – Dec. 31st 2015= - 41
Annual count 2015 = 108

***To ensure consistency with our survey methodology, kittens less than 3 months old that were captured by trail cameras late in the year were not added to the 2015 annual count because they were not large enough to accompany their mothers for long distances and likely would have remained undetected by track counts. However, the kittens that survive will be added to the annual count in 2015 when they are large enough to be detected by track surveys as well as trail cameras.**

*Revisions

After the annual count is compiled each year, additional panther information is submitted that is too late to enter into the current count. Some of these panthers are confirmations of panthers that are already documented, however, others may add to the count. Additional changes may reflect errors discovered when we vet our records. The data in Figures 7, 8, and 9 reflect the recently revised 2003–2015 Annual Count summary data.

unit B

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 01/ 2015 – 02/28/2015 Panther # (if kittens): 1 Adult ♀ three K's

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other Video
Sex: M (F) Unknown + 3 juvs
Number / Composition of Individuals: One Adult ♀ & 3 juvs
Age/Condition of Sign: Video

Location: Corkscrew Swamp – Audubon

UTM'S: Little Corkscrew Island

Habitat: OAK + Cabbage Hammock

Observers(s): Ralp Arwood ©

OBSERVATION: this family group was caught on video on multiple occassions between Jan 1st 2015 and Feb 28/2015
There were 4 panthers in this group.
These photos are copyrighted and should not be reproduced by penalty of law.

Mapping Area:

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-2-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age / Condition of Sign: trail cam photo

Location: FPNWR (Florida Panther National Wildlife Refuge)
UTM'S: Camera FP 01
Habitat: Sabal palm forest
Observer(s): Brian Kelly

Observation: Uncollared female panther comes into the frame and then runs out. Moments later, fp#195 comes into the frame from the direction the other panther ran from.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

unit #8 cont

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-2-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: Alico Underpass (850)

UTM'S:

Habitat: Underpass

Observers(s): R. Pines

OBSERVATION: Collared panther photographed on multiple occasions moving from Private land South of 850 to public land North of 850

Map

unit #8

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 1-2-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: 3 kit
Age/Condition of Sign: Trail cam

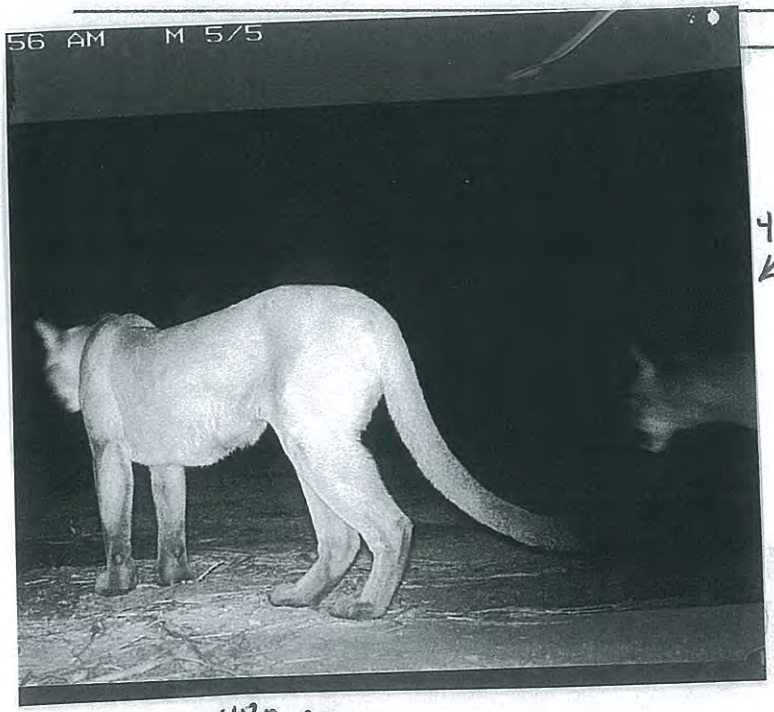
Location: Alico Rd 850 underpass

UTM'S:

Habitat:

Observers(s): R. Pires

OBSERVATION: Female panther w/2 kittens walks S. under the hwy. Female comes back alone about 1½ hrs. later. She then goes BACK S. under the bridge with ANOTHER kitten.



4:20 AM

4:20

4:22 am

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: con't 1-2-2/5 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals:_____
Age/Condition of Sign: _____

Location:_____

UTM'S:_____

Habitat:_____

Observers(s):_____

Cat came back w/ another (3rd) juv.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 1-03-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: SR 29 underpass FPNWR

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Male panther with cowlick and straight tail walking under the bridge towards Bear Island

Mapp

MP2 (adult male)

Large notch center RT ear with "fishtail" shape. Small notches tip and center of LT ear. Large cowlic set well back from shoulder. Kinked tail usually tilts to right side or carried in a J shape. Relatively skinny tail. Most photographed throughout monitoring area, readily identified cat and only male documented since Dec. 2010.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-5-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age / Condition of Sign: Trail Cam Photo

Location: Everglades Natl. Park (Homestead)
UTM'S: None Provided
Habitat: Saw grass / Pine land
Observer(s): Mark Parry

Observation: Male panther with a large notch in right ear, on the outside shoulder of the ear. Kinked tail usually tilts to the right side and carried in a J shape.
Mapping Area / Photo Evidence:

Photo evidence on back ---→

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 1-6-15 Panther # *(if kittens)*: uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: 2
Age/Condition of Sign: Trail cam

Location: DSR-29 underpass

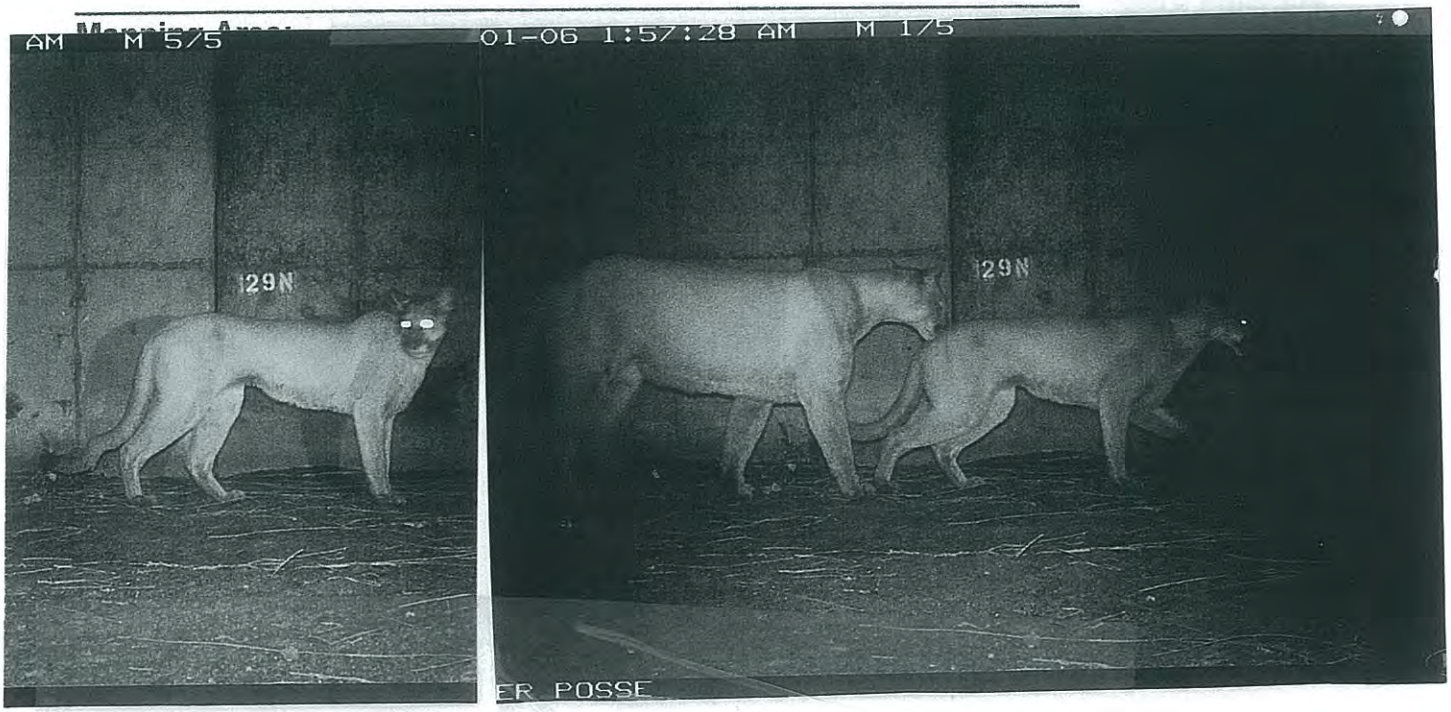
UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Broken tailed female, photographed multiple times through 2014. with male

Mapping Area:



unit #6

Cont

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-6-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP 14
Habitat: Pine woods
Observer(s): Brian Kelly

Observation: Uncollared male panther walks by a trail camera in the Refuge.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

unit #4

Florida Panther Annual Count

NEW PANTHER!!

Date: 1/6/15 **Panther #** [redacted] 233

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: North Add Lands

UTMs: 0492438 2900022

Habitat: Oak Hammock

Observer (s): Roy + Conga McBride

Observation: young male panther treed by hounds. GPS collar deployed successfully. Cat was in good health.

E

New Panther unit #4 #234

Florida Panther Annual Count

Date: 1/7/15 **Panther #** uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

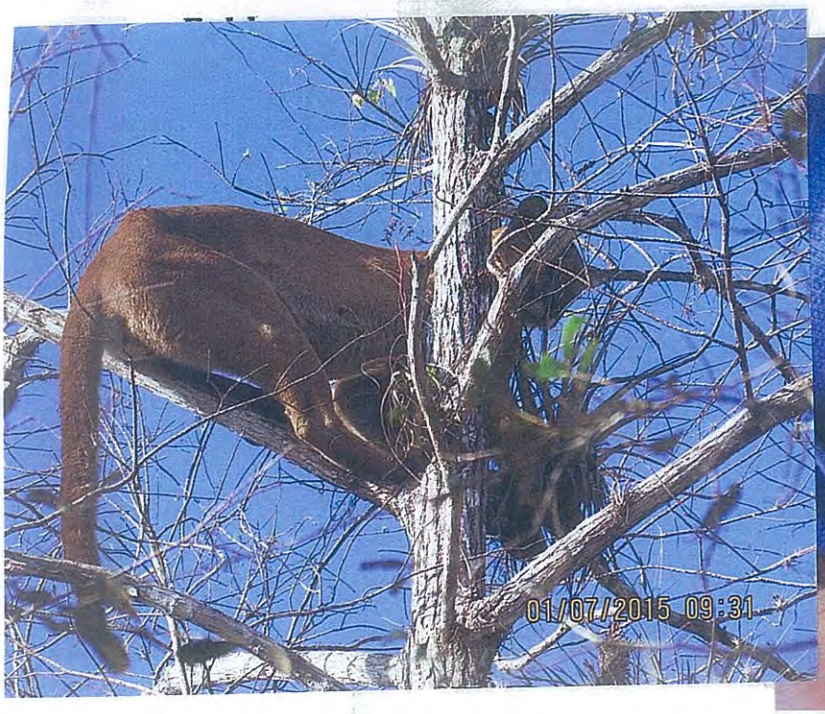
Location: Add lands N. of Hits camp

UTMs: 0488346 2900821

Habitat: Cypress/pine

Observer (s): Roy + Congan McBride and capture team

Observation: Old male treed about 35' up a cypress tree. Had one canine (bottom) broken off. Broken toe on back left foot. In good health for his age (9-10) he weighed 104 lbs.



Unit #4 NEW PANTHER # 235

Florida Panther Annual Count

Date: 1/8/15 **Panther #** 235

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: One

Age/Condition of Sign: Treed by hounds

Location: Add Lands

UTMs: 0493192 2899350

Habitat: Pine and Cypress mix

Observer (s): Roy + Cougar Hitside and Capture team

Observation: Large adult male panther. 4yrs old, great health. Jumped out of one tree. Cat slipped out of knot as it was pushed out of tree. Cat seemed to be fine according to capture team.

Evidence:

Pics cont. →

Florida Panther Annual Count

#235 cont.

Date:_____ **Panther #**_____

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M F Unknown

Number/Composition of Individuals:_____

Age/Condition of Sign:_____

Location:_____

UTMs:_____

Habitat:_____

Observer (s):_____

Observation:_____

Evide

Re-collar #199

Rancher's Supply Field Data

Time Start Friday Time Stop unit #4

Date 01/09/15 Observer Roy & Cougar Site Add lands

Activity: hunting ✓ scouting ___ exercising hounds ___ other ___

Sign found: panther Treed by hounds. ___ coyote ___

Capture: bobcat treed ___ bobcat bayed ___ panther treed: collared ✓ uncollared ___ failed collar ___

ATCP ___ ATUP ___ handled ✓ transponder ___ Panther capture: sex ♀ age ___

Est 75 weight 78 lbs kink ___ cowlick ___ tree type ___ height in tree 35' jumped 0 pre-dart 1 dart

80 ___ post-dart 0 # of times jumped 0 Kitten capture: guided by telemetry ___ # of kittens ___

sex ___ age ___ GPS: 17R ___ UTM ___

Photo/Map:

Notes: Re-Collar #199 S.E of CCC camp on Brown's grade. Pups started their first panther trail.

Unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1 – 9 - 15 Panther FP#: 199 re - collar

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Treed by hounds

Location: Add Lands
UTM'S: 0494556 2901701
Habitat: Pine / Cypress mix
Observer(s): Roy and Cougar McBride w/ FWC capture team

Observation: Female panther #199 re – collared. Cat was in good health and capture was clean with no mishaps.
Mapping Area / Photo Evidence:

-Data sheet continued on back----------→

Unit #8

Re-collar #198 Female

Florida Panther Annual Count

Date: 1/12/15 **Panther #** 198

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: One

Age/Condition of Sign: Treed by hounds

Location: Port Authority

UTMs: 0433270 2928523

Habitat: Oak Hammock

Observer (s): Roy + Conyan McBride and capture team

Observation: Female panther #198 treed in a low oak tree. One dart and the cat ran. Bios tracked her w/her collar.

Evidence:

RB-Collar #198

Rancher's Supply Field Data

Time Start Monday Time Stop unit #8

Date 01/12/15 Observer Roy & Cougar Site Port Authority

Activity: hunting ✓ scouting ____ exercising hounds ____ other _____

Sign found: panther _____ bear _____ coyote _____

Capture: bobcat treed ____ bobcat bayed ____ panther treed: collared ____ uncollared ____ failed collar ____

ATCP ____ ATUP ____ handled _____ transponder ____ Panther capture: sex ____ age ____ pre-dart

weight 90 lbs kink ____ cowlick ____ tree type Live oak height in tree 15' jumped ____ pre-dart

Last time ____ post-dart ____ # of times jumped ____ Kitten capture: guided by telemetry ____ # of kittens ____

sex _____ age _____ GPS: 17R 0433270 UTM 2928523

Notes:

Took Crisco, Eepie Frosty took some time to start. Retrieved him w/ the radios TR2-Receivers.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-13-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Two
Age / Condition of Sign: Trail cam photo

Location: Everglades Natl. Park (Homestead)
UTM'S: None provided
Habitat: Saw grass / pine lands
Observer(s): Mark Parry

Observation: Female panther with male juvenile walk by a trail cam station in Everglades Natl. Park
Mapping Area / Photo Evidence:

Photo evidence on back----→

FP2 (adult female)

Kinked tail (slightly but always visible). No cowlic.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-13-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: trail cam
Sex: M F Unknown
Number / Composition of Individuals: two
Age / Condition of Sign: Trail cam photo

Location: Everglades Natl. Park (Homestead)
UTM'S: None provided
Habitat: saw grass / pine lands
Observer(s): Mark Parry

Observation: Female panther and juvenile male walk by a trail camera station in Everglades Natl. Park
Mapping Area / Photo Evidence:

Photo evidence on back -----→

JP1 and FP2: Assuming these are the same pair in both captures which may not be accurate.

unit #4 Cont

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-14-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Northern Addition Lands, BICY
UTM'S: Camera A-33
Habitat: Pine / Cabbage mix
Observer(s): Brian Kelly

Observation: Possible pregnant female, sex unknown, walks by a trail cam in the northern Addition lands in Big Cypress NP
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #6 Conf

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-14-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP34
Habitat: Cypress swamp
Observer(s): Brian Kelly

Observation: Uncollared female panther walks by an off - trail camera in the Refuge
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

unit #8 New Panther # 236

Florida Panther Annual Count

Date: 1/16/15 **Panther #** 236

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Flynt Pen Strand

UTMs: 0430668 2919218

Habitat: Pine/cypress mix

Observer (s): Roy & Jonpar and capture team

Observation: Male panther 135 lbs treed in Flynt Pen. Cat had bad mange and Vet gave it Ivermectin.

Evidence:

Unit #6

Cat

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-17-15 Panther # *(if kittens)*: _____

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: SR 29 Underpass ~~[illegible]~~ FPNWR

UTM'S: _____

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Cont. Male panther that was w/ the broken tail female. on 1-6

Mapping A

unit
#4
cat

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-17-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition lands, BICY
UTM'S: Camera A-45
Habitat: Pine / Cypress / Cabbage mix
Observer(s): Brian Kelly

Observation: Male panther walks by a trail camera in the norther Addition lands
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

unit #3 Re-collar

Florida Panther Annual Count

Date: 1-18-15 **Panther #** 151

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: One ✓

Age/Condition of Sign: Treed by hounds

Location: BICY & North Airplane Prairie

UTMs: 0475725 2879502

Habitat: Oak Hammock

Observer (s): Congar McBride + NPS capture team

Observation: Female #151 Re-Collared. Very good health. 97 lbs!!

Evide

Unit # 8 Treed panther Cont

Florida Panther Annual Count

Date: 1-19-15 **Panther #** uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M F Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: C.R.E.W.

UTMs: 0445908 2926202

Habitat: Pine/oak hammock

Observer (s): Roy & Longan and F.W.C Capture Team

Observation: Adult panther treed by hounds. Panther went to the top of a big Pine tree. too high to determine gender. Capture team chose to walk away and come back but the scent was gone when we returned

Evidenc

NEW PANTHER
237 - ♂
+ • - ♀

Florida Panther Annual Count

Date: 1-20-15 **Panther #** 237

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) (F) Unknown

Number/Composition of Individuals: ~~[illegible]~~ TWO

Age/Condition of Sign: Bayed by hounds

Location: Flynt Pen Strand

UTMs: 0434268 2916954

Habitat: Abandoned Palm Nursery

Observer (s): Roy, Cougar, and FWC Capture Team

Observation: Sub-Adult male panther 13-15 months old bayed by hounds and collared. Cat was in good health. panther was under abandoned house

There was also a female juv that did not get a coll. The female is ← this cat.

Evider

unit #3

Cat

Big Cypress National Preserve Florida Panther #151 January 18, 2015 Capture

Panther ID: FP 151 K#: 113 Sex: Female Age: almost 13 years known age

Dam: FP93 Sire: FP79 K113 was born in the Turner River Unit of Big Cypress near Austin's Camp.

Birthdate ~April 5, 2002

Transponder #: 1EFF813 Existing Ear Tattoos: L no tattoo R 151 existing (did not tattoo left ear)

Capture Reason: Comments: change collar prior to battery failure

Date: 18 January 2015
Temp: mid-70s **Humidity:** ~50% **Conditions: partly cloudy; light winds**

UTM: EW 475725 NS 2879495

Location Description: Collier County, Florida; Big Cypress National Preserve; 2 km east of Turner River Road (CR 839); 5 km north of Upper Wagon Wheel Road (CR 837)

Habitat: pine island with saw palmetto/hardwood understory
Tree Type: cabbage palm Height in Tree: 15 feet

Time Treed: 10:10 **Time Darted:** 10:51
No. of Jumps: Pre-Darting: **0** Post-Darting: **0 Dart/Needle Recovered : yes**

Restraint Method: Panther settled onto fronds on top of cabbage palm. Tree was climbed by Dennis Giardina and panther was lowered into net.

Capture Description: Panther was located by ground telemetry near Turner River Road and Upper Wagonwheel Road. Houndsman treed panther at site. Hounds restrained and panther darted. Team at edge of pines ready to deploy net.

Personnel: NPS capture team members: Deborah Jansen, Annette Johnson, John Kellam, Dennis Giardina, Ralph Arwood; NPS DVM Kevin Castle; Rancher's Supply houndsman Cougar McBride.

RADIOCOLLAR

Frequency 150.944 Job/Serial#: 032920 **Manufacture Date** Jan. 2015

Type/Manufacturer: ATS Iridium LITE/GPS model G2110L

Duty cycled to come on @ 0600 for 12 hrs.

Circumference (cm) 35 inside diameter (previous: 34.5 and 36 cm) No Breakaway Nuts Tight

MORPHOLOGY
Weight (lb): **91 lbs without collar and fluids);** previous were 88 in 2007, 72 in 2010 , and 77 in 2014.)
Neck Circumference (cm) **34** (previous were 34, 35, and 33)
Chest Girth (cm) **70** (previous were 67 in 2007, 62 in 2010, and 63 in 2013)

Kink: **No** Cowlick: **No**

cont next page

ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	500/50	2.5 ml	IM	10:51	Initial Dart. Bottle #214110. Est.wt. 80 lb. actual weight: 91 lbs; drug dosage for 110 lbs
Propofol Bolus	30	3 ml	IV	11:23	T + 32 Minutes. Slight movement of eyes
Propofol Bolus	20	2 ml	IV	11:51	T + 60 minutes. Slight tail and leg movement
Propofol Bolus	20	2 ml	IV	12:11	T + 80 minutes. Prior to weighing and team moving off

Quality of Anesthesia/Comments: Dosed for ~110 lbs based on previous events where she did not become sedate enough to handle with initial doses of Ket/Xyl. Panther was deeply sedated with the first dart and stayed in the tree she had climbed. Tree climber was able to gently drop her into the safety net, and additional anesthetic was not needed initially. Vital signs remained excellent and stable throughout the event. She responded well to small boluses of propofol when jaw tone and eye, leg, or tail movements increased.

Recovery from anesthesia was uneventful. Team and gear and buggies removed from site. DVM and PI monitored her and after approximately 2 hours post-darting she began holding her head up, kicking her legs while attempting to stand, and responding appropriately to stimuli. Remainder of team left at that time.

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
T + 15 m	102.1	120	30	PP		PP=Pale pink
T + 25 m	101.0	110	20	PP		
T + 40 m	101.6	110	16	PP		
T + 48 m	101.5	100	16	PP		
T + 60 m	101.5	100	20	PP		
T + 80 m	102.0	110	20	PP		

FLUIDS

Type	Quantity	Route	Comments
LRS	1.5 L	IV	IV Catheter in left medial saphenous vein

EXAM AND TREATMENT

PHYSICAL EXAM:

PHYSICAL CONDITION SCORE (I = BEST, V = WORST): 1.5

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : Excellent muscling and minimal fat; skin and hair coat in very good condition. At capture previous year, she was raising young. This year she is not and her improved condition, neck and chest girth reflect this.

PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: **normal**

Dental: abnormal -- Photos: Yes; lower left canine fractured, root canal apparent

Skin/hair: abnormal Numerous tick scars, primarily around head and neck
Musculoskeletal: **normal**
Eyes/Ophthalmoscope: **normal**
Neuro: **normal**
Genital/urinary: **normal**
Heart: **normal** Murmur: **no**
Lungs: **normal**
Abdominal cavity: **normal** □AB Stomach: **Full** □ Gorged; had left a kill site the previous day
External parasites: abnormal Type: **X Ticks**
Abnormal findings: none

SNAP Test: FeLV- Negative FIV- Positive Comments: **HW (*D. striata*) Positive**

Reproduction

Female Kittens: **No** Pregnant: unknown**: No fetuses palpable, no fetal heart beat heard with stethoscope** :
Mammary/Nipple (describe): Dark, had previously nursed; mammaries are undeveloped, no milk expressed

Vagina: **Normal** Comments: Papillomas : **No** Comments:

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1 ml	SQ	1215380A D12151C exp7Feb15	Rt lower front leg
Fel-o-vax PCT/FeLV	**1ml SQ/im**	1 ml	SQ	D19341C exp16Dec15	Rt. lower rear leg
Penicillin 300,000u/ml	**22,000(routine)- U/kg IM/SQ**	3 ml	SQ		Rt Epaxial region
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**	0			Not given
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**	0			Not given

SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	3	Sent to FWC M. Cunningham DVM
	EDTA	2	Sent to FWC M. Cunningham DVM
	Heparin	2	Sent to FWC M. Cunningham DVM
	Small red top	1	Sent to FWC M. Cunningham DVM
	Skin		
	Hair	Shaved	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	Ticks	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		
	Semen		
	ECG		
	Other		

Post-recovery movements

Date: January 19, 2015 Time: 4 AM UTM: 476186 2877993

Distance Moved: **1.6 km** Days Between Locations **: 8 hours**

unit # 4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-20-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B21
Habitat: Pine and palmetto
Observer(s): Brian Kelly

Observation: Large male panther walks by trail cam in Bear Island, BICY
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their study

unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-21-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition lands, BICY
UTM'S: Camera A-23
Habitat: Pine / Cypress mix
Observer(s): Brian Kelly

Observation: Female panther walks by a trail camera. Identifiable by the 3 tick bites going down her face (right side)
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-21-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition lands, BICY
UTM'S: Camera A-34
Habitat: Pine / cypress prairie
Observer(s): Brian kelly

Observation: Male panther walk by trail camera
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 1-23-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: FPNWR SR 29 underpass

UTM'S:

Habitat: underpass

Observers(s): R. Pines

OBSERVATION: female panther walking E. under the SR 29 underpass! those dark spots on the wall behind her are spray locations for bobcats.

Mapping A

unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-24-15 Panther # (if kittens): Uncollared + 1

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other Trail cam
Sex: M (F) Unknown
Number / Composition of Individuals: 2
Age/Condition of Sign: Trail cam photo

Location: Big Cypress Seminole Indian Res.

UTM'S: 80.99867 26.32244

Habitat: Cypress swamp

Observers(s): Pauline Haas

OBSERVATION: Female panther with one Juvenile. unable to detect the sex of the juv.

photo of Juv - Next page

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 1/24/15 cont'd

Panther # *(if kittens)*: _____

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: _____
Age/Condition of Sign: _____

Location: _____

UTM'S: _____

Habitat: _____

Observers(s): _____

OBSERVATION: _____

unit #3

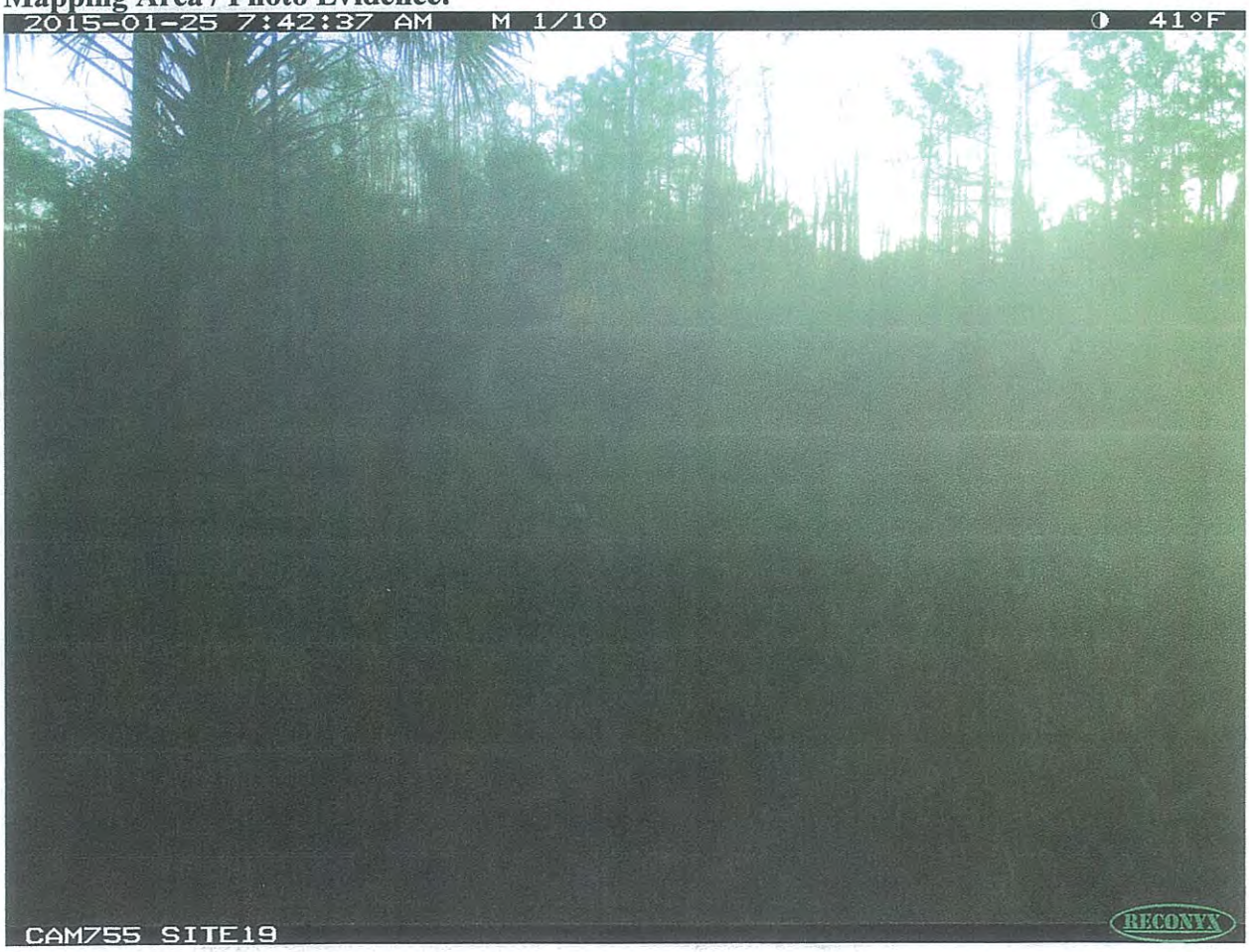
UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-25-15 **Panther FP#: 221**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Two
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 471306 2865405
Habitat: Cypress/Pine mix
Observer(s): Annette Johnson, NPS

Observation: FP #221 and one juvenile out hunting. Kitten and mother both look in good health.
Mapping Area / Photo Evidence:



Unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-26-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition land, BICY
UTM'S: Camera A-10
Habitat: Cypress / Pine mix
Observer(s): Brian Kelly

Observation: Male panther walks by trail cam. Panther can be ID'd by a large split or gap in left ear near the cranium
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #5

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1 – 26 - 15 Panther FP#: #193 re - collar

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Treed by hounds

Location: Western Blocks
UTM'S:
Habitat: Pine / Brazilian Pepper thicket
Observer(s): Roy and Cougar McBride, Logan Lewis, FWC capture team

Observation: Male panther #193 treed in tall pine tree. Panther was darted but the drug was old and had lost its potency. Panther climbed down from the tree after darting and was pursued by bios on foot but the panther quickly eluded the men and escaped. Hounds were not redeployed in case the panther was under the influence of the drug and couldn't defend itself or climb a tree.
Mapping Area / Photo Evidence:

This panther was treed again on 02/02/15
And his collar was successfully re-placed

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 1-27-15 **Panther FP#: 233**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age / Condition of Sign: Trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B16
Habitat: Pine woods
Observer(s): Brian Kelly

Observation: Collared female #233 walks by trail cam
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 1-27-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: (M) F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: SR 29 underpass FPNWR

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Male panther with distinct tail feature for identification.

Unit # 5

Florida Panther Annual Count

Date: 01/24/15 **Panther #** Uncollared

Sign Found: (Tracks,) Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: fresh -

Location: Near Sabal Palm Rd - Big Mud hole

UTMs:

Habitat: cypress swamp

Observer (s): Roy & Logan

Observation: panther walking east

Evidence:

mit #5

Florida Panther Annual Count

Date: 01/29/15 **Panther #** uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M F Unknown

Number/Composition of Individuals: one adult male

Age/Condition of Sign: Fresh

Location: 4 Mi Rd - Near I-75

UTMs:

Habitat: pine - palmetto

Observer (s): Roy & Logan

Observation: panther going N. towards hwy I-75

Evide

Unit #5

Florida Panther Annual Count

Date: 01/29/15 **Panther #** uncollared

Sign Found: (Tracks,) Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one Adult female

Age/Condition of Sign: Fresh

Location: 100 Meters from Forestry office

UTMs:

Habitat: palmetto - pine

Observer (s): Roy and Logan

Observation: fresh tracks near forestry office panther walking North

Evidence:

Kms #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-1-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam Photo

Location: Bear Island, BICY
UTM'S: Camera B05
Habitat: Hardwood hammock
Observer(s): Brian Kelly

Observation: Uncollared female panther walks by trail camera in Bear Island, BICY
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #d

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-1-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age / Condition of Sign: trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B36
Habitat: Sabal palm and cypress mix
Observer(s): Brian Kelly

Observation: Uncollared male, smaller than the last recorded male walks by trail cam in Bear Island.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unix #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-4-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age / Condition of Sign: Trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B56
Habitat: Natural sawgrass prairie
Observer(s): Brian Kelly

Observation: Old, scarred male different from the other two by the visible scars and age of the cat.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-4-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition Lands
UTM'S: Camera A-53
Habitat: Pine / Cypress mix
Observer(s): Brian Kelly

Observation: Adult female walk by. Panther seems to be slightly skinny
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit 7
#4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-8-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition lands, BICY
UTM'S: Camera A-60
Habitat: Cabbage / Pine mix
Observer(s): Brian Kelly

Observation: Male panther walk by. Cat shows signs of fighting (wounds to right front leg)
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #8

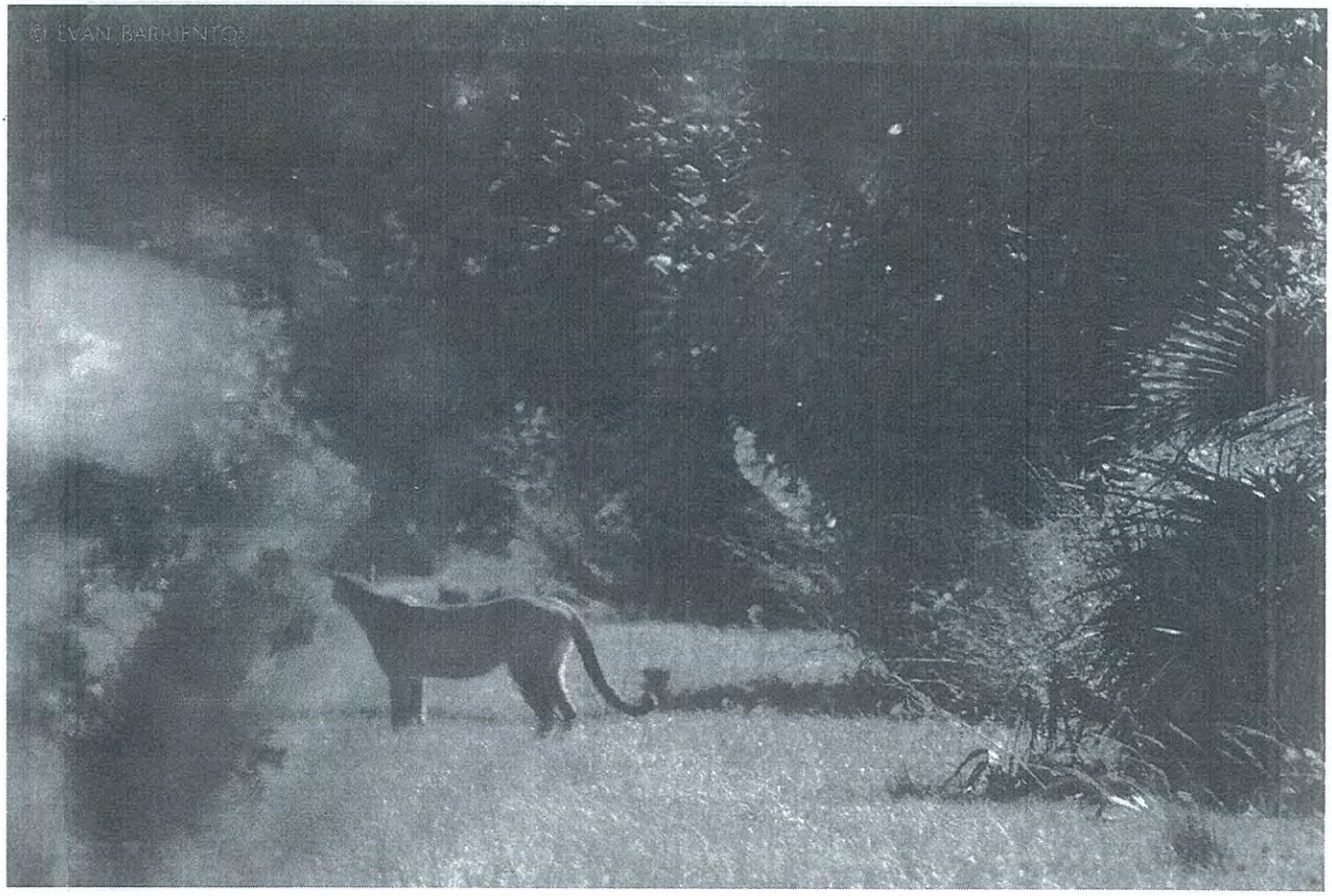
UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-10-15 **Panther FP#:** uncollared

Sign Found: **Tracks** **Scat** **Scrape** **Kill** **Live Panther** **Other:**
Sex: **M** **F** **Unknown**
Number / Composition of Individuals: One
Age / Condition of Sign: Personal observation w/ photo

Location: Little Corkscrew Island
UTM'S: UTM not provided
Habitat: Fallow farm field with native/non native brush and prairies
Observer(s): Evan Barrientos

Observation: Panther was observed stepping out into a field from a stand of brush. Presented broadside, it makes for a stunning photo.
Mapping Area / Photo Evidence:



Highly likely this panther has been photographed by FWC & Ralph Arwood on various occasions.

Unit #3

Florida Panther Annual Count

Date: 2/11/15 Panther # 192

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Racoon Point BICY

UTMs: 507459 2872199

Habitat: Cypress Swamp

Observer (s): Congan McBride + The NPS Capture Team

Observation: Female Panther # 192 Treed twice before re-collared.

Evidence:

Big Cypress National Preserve Florida Panther #192 Feb. 11, 2015 Capture Data

Panther ID: FP192 **K#: 287** **Sex: Female** **Age: 5 years, 8 months known**

Transponder #: existing was 600E52E but not found; New = 0006E3A7BE

Ear Tattoos: L yes R yes both existing

Ear Tag: none

Capture Reason: recollar prior to battery failure

Date: February 11, 2015 Temp: 70sF Humidity: low Conditions: variable cloud cover/wind

UTM: treed @ 507743 2872493; workup site @ 507460 2872562

Location Description: Big Cypress National Preserve; Corn Dance Unit; 13.8 km north of Hwy 41; 430 meters east of 11 mile road

Habitat: pine island Tree Type: pine Height in Tree: nc
Time Treed: 1245 Time Darted: 1320
No. of Jumps: Pre-Darting: **1 crawl: first treed @ 0950; cat was too high in tree but came down when houndsman left site with hounds; was treed lower in another tree @ 1245** Post-Darting: **1 (jumped when darted and was found 300 meters to east)**

Dart/Needle Recovered: Yes

Capture/Restraint Method: cat first treed high in tree; houndsman left area and cat came down on its own; hounds then treed it in another tree; jumped when darted and found on ground via telemetry 300 meters east of darting site.

Personnel: NPS capture team members: Deborah Jansen, Annette Johnson, Dennis Giardina, Ralph Arwood; NPS DVM Kevin Castle; Rancher's Supply houndsman Cougar McBride.

RADIOCOLLAR

Frequency: 150.654 **Job/Serial #:032917** **Manufacture Date : 1/2015**

Type/Manufacturer: ATS Iridium LITE/GPS model G2110L

Duty cycled to come on @ 0600 for 12 hrs.

Circumference (cm): 33 Breakaway no **Nuts Tight: Yes**

MORPHOLOGY
Weight (lb): **72 lbs without collar and fluids** (62 lbs in 2011)
Neck Circumference (cm) **32 (30 in 2011)**
Chest Girth (cm) **57 (54 in 2011)**

Kink: **No** Cowlick: No
Comments:

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ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	380mg/38mg	1.9cc	IM	13:20	Initial Dart. Bottle #214110. Est.wt. 80lb. At 10 mg/kg was given a dose for 84 lbs.
Propofol 20mg/ml	30	3	IV	1410	
Propofol 20mg/ml	30	3	IV	14:25	

Quality of Anesthesia/Comments: Anesthesia was uneventful. She was sedate enough on the ground initially to place IV catheter and begin fluids w/o additional propofol. Additional propofol boluses maintained anesthetic depth. After body temperature normalized, vitals were normal throughout. 14:58 moved under shade, holding head up. Team left at that time since she was clearly recovering from anesthesia.

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
13:45	106.9 R	130	28	PP		Cooling efforts begun. Cool tap water enema. Water poured on coat and rubbed in. ETOH poured on pads. Fanned with palm frond.
14:10	101.8 Inguinal	120	24	PP		
14:18	101.7 Inguinal	120	20	PP		
14:32	102.0 Inguinal	120	20	PP		
14:43	101.0 Inguinal	120		PP		

FLUIDS

Type	Quantity	Route	Comments
Tap water	600cc	Rectum	Cool tap water enema for elevated temperature.
LRS	1000	IV	
LRS	900	IV	

EXAM AND TREATMENT

PHYSICAL EXAM:

PHYSICAL CONDITION SCORE (I = BEST, V = WORST): II

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : Excellent muscling with minimal fat; multiple tick scars but coat and skin otherwise in excellent condition.

PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: normal
Dental: normal Photos:
Skin/hair: normal
Musculoskeletal: normal
Eyes/Ophthalmoscope: normal
Neuro: normal
Genital/urinary: normal
Heart: abnormal Murmur: Yes **III/VI Holosystolic murmur; normal femoral pulses**

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Lungs: not checked
Abdominal cavity: not checked Stomach: **Gorged**
External parasites: abnormal Type: **Ticks**
SNAP Test: FeLV- negative FIV

Reproduction

Female Kittens: not known Pregnant: evaluated as unknown, however, she gave birth 3 weeks later; It was difficult to assess abdominal cavity for fetuses due to large amount of food in stomach and mild-moderate gas distension. No obvious fetuses.
Mammary/Nipple (describe): Dark, evidence of previous nursing; no milk expressed, mammaries not developed.
Vagina: **Abnormal** Comments: Low vaginal tone; small amount of hemorrhage; possibly bred recently?
Papillomas : no Comments:

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1cc	SQ	1215380A D12151C exp7Feb15	Lt rear leg
Fel-o-vax PCT/FeLV	**1ml SQ/im**	1cc	SQ	1934115A D19341C exp16Dec15	Lt. front leg
Fel-o-vax FeLV	**1 ml SQ**				
Penicillin 300,000u/ml	**22,000(routine)-44,000(injuries-dog bite) U/kg IM/SQ**	3cc	SQ		Rt epaxial region
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**	none			Not given
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**	none			Not given

SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	3	Sent to FWC M. Cunningham DVM
	EDTA	3	Sent to FWC M. Cunningham DVM
	Heparin	3	Sent to FWC M. Cunningham DVM
	Small red top	1	Sent to FWC M. Cunningham DVM
	Skin		
	Hair	Plucked and shaved	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	Ticks	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		
	Semen		
	ECG		
	Other		

Post-recovery movements

Date: **Feb. 12, 2015** Time: **2000** UTM: **507459 2872199**
Distance Moved: **360 meters** Days Between Locations **1**
Then she went back to kill where jumped by hounds 200 meters south of capture site

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NEW PANTHER
239
Female

Florida Panther Annual Count

Date: 2-12-15 **Panther #** 239

unit #3

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Austin Strand Bicy

UTMs:

Habitat: Oak hammock

Observer (s): Cougar Nibble + NPS Capture Team

Observation: 40 lb, 9 month old kitten collared successfully

Evid

Big Cypress National Preserve Florida Panther #239 February 12, 2015 Capture Data

Panther ID: FP239 **K#: none** **Sex: Female** **Age: 11 months old known**

(dam FP214 denned in April 2014 but kittens were not found and handled due to 1 flight per week NPS BICY protocol)

Transponder #: 0007136DCB New **Ear Tattoos: L yes R yes both new**

Ear Tag: none

Capture Reason: opportunistic

Date: February 12, 2015 Temp: 70F Humidity: low Conditions: variable cloud cover/winds

UTM: treed and darted @ 481756 2876007; found on ground @ 481678 2875778 240 meters south of treed site

Location Description: Big Cypress National Preserve; Turner River Unit; 14 km north of Hwy 41; 8 km east of Turner River Road

Habitat: hardwood hammock Tree Type: laurel oak Height in Tree: 17 feet

Time Treed: 1142
Time Darted: 1245
No. of Jumps: Pre-Darting: **0** Post-Darting: **1**

Dart/Needle Recovered: Yes

Capture/Restraint Method: jumped from tree when darted; hounds had been restrained; caught on ground

Personnel: NPS capture team members: Deborah Jansen, John Kellam, Dennis Giardina, Ralph Arwood; NPS DVM Kevin Castle; Rancher's Supply houndsman Cougar McBride.

RADIOCOLLAR

Frequency: 150.590 **Job/Serial #: 651808A** **Manufacture Date :2/2011**

Type: Telonics mod-335; duty-cycled @ 12 hours on starting @ 0600.

Circumference (cm): 34 Breakaway no, but padded inside collar with leather pieces and tape

Nuts Tight: yes

MORPHOLOGY
Weight (lb):**44 without collar and fluids** Neck Circumference (cm): **28**
Chest Girth (cm) **51**

Kink: **yes □ Photo-yes** Cowlick: no, but whorl of hair on top of neck **□ Photo-Yes**

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ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	280/28	1.4 ml	IM dart	1200	#123014BS-1; At 10mg/kg dose given was for 62 lbs
Propofol 10 mg/ml	30	3	IV	1210	
Propofol 10 mg/ml	30	3	IV	1245	Catheter
Propofol 10 mg/ml	20	2	IV	1315	Catheter

Quality of Anesthesia/Comments: Jumped from the tree and was hand-restrained while net was placed over her. Sedation from dart was sufficient to allow IV injection of Propofol to induce anesthesia while she was hand restrained. Anesthesia was uneventful, vital signs remained normal throughout. Occasional propofol boluses were sufficient to maintain anesthesia during procedures.

Video recovery data: 13:44: The team leaves. 14:01: Dr. Castle lifts pillowcase off face. 14:28: FP239 begins to lift head. 14:47: FP239 sits up. 14:56: FP239 begins to move away 14:59: FP-239 is out of view of the cameras.

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
1215	104.1	130	30	PP		
1230	103.5	110	18	PP		
1300	102.5	110	20	PP		
1310	102.0	120	20	PP		
1320	101.5	120	20	PP		
1335	101.3	120	24	PP		

FLUIDS

Type	Quantity	Route	Comments
LRS	1 liter	IV catheter	

EXAM AND TREATMENT

PHYSICAL EXAM:

PHYSICAL CONDITION SCORE (I = BEST, V = WORST): II

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : Well developed kitten, good muscling and appropriate fat. Hair coat and skin in excellent condition except for some ticks and tick scars.

PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: **normal**
Dental: **normal** Photos: Yes
Skin/hair: **normal**
Musculoskeletal: **normal**
Eyes/Ophthalmoscope: **normal**
Neuro: **normal**
Genital/urinary: **normal**
Heart: **normal** Murmur: □ **no**
Lungs: **normal**
Abdominal cavity: **normal** Stomach: **full**
External parasites: **abnormal** Type: Ticks

Abnormal findings: **None**

SNAP Test: FeLV- Negative **FIV- Positive** Comments: HW (*D. striata*) **Negative**

Reproduction

Female Kittens: no, too young Pregnant: **No**
Mammary/Nipple (describe): Not developed/not enlarged or discolored
Vagina: **Normal**
Papillomas : **No** Comments:
Progesterone = 1.2 Relaxin = negative

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1 ml	SQ	12115399A 12 Feb 16	Rt lower leg
Fel-o-vax PCT/FeLV	**1ml SQ/im**	1 ml	SQ	D19341C exp16Dec15	Lt. lower leg
Penicillin 300,000u/ml	**22,000(routine)-44,000(injuries-dog bite) U/kg IM/SQ**	2.5 ml	SQ		Left lateral abdomen
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**				Not given
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**				Not given

SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	3	Sent to FWC M. Cunningham DVM
	EDTA	3	Sent to FWC M. Cunningham DVM
	Heparin	2	Sent to FWC M. Cunningham DVM
	Small red top	1	Sent to FWC M. Cunningham DVM
	Skin	2 ear punches	Sent to FWC Naples Panther biologists.
	Hair	Plucked and shaved	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	ticks	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		
	Semen		
	ECG		
	Other		

Post-recovery movements

Date: **Feb. 17, 2015** Time: **1020** UTM: **486786 2872830**

Distance Moved: **6 km** Days Between Locations : **5 (1 day/wk monitoring by NPS)**

Comments:

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unit #2

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 02/14/15 Panther # (if kittens): Adult Male

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: One Male
Age/Condition of Sign: Fresh

Location: Jim Dill Rd

UTM'S: @ Fork @ Fire Radio Antenne N. side of Rd
Habitat: COCO Plum and wire grass

Observers(s): Roy & Logan

OBSERVATION: Single Scrape - We have seen scrapes here in the past. poor conditions to see tracks

Unit #2 Male & Female tracks

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 02/14/15 Panther # (if kittens): Adult ♂ & ♀

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: 2
Age/Condition of Sign: Male tracks Fresh – Female tracks old

Location: Monroe Station Trail South

UTM'S: Male track 1/4 mi S. of Hwy 41
Female track @ 1=Ar south end of Rd
Habitat: cypress and prairie

Observers(s): Roy & Logan

OBSERVATION: Male tracks fairly Fresh
Female tracks dried Mud

Female ↓

Male ↓

Male ↑ Female ↑

Unit # 3

Florida Panther Annual Count

Date: 2/14/15 **Panther #** 221

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Turner River Unit BLCY

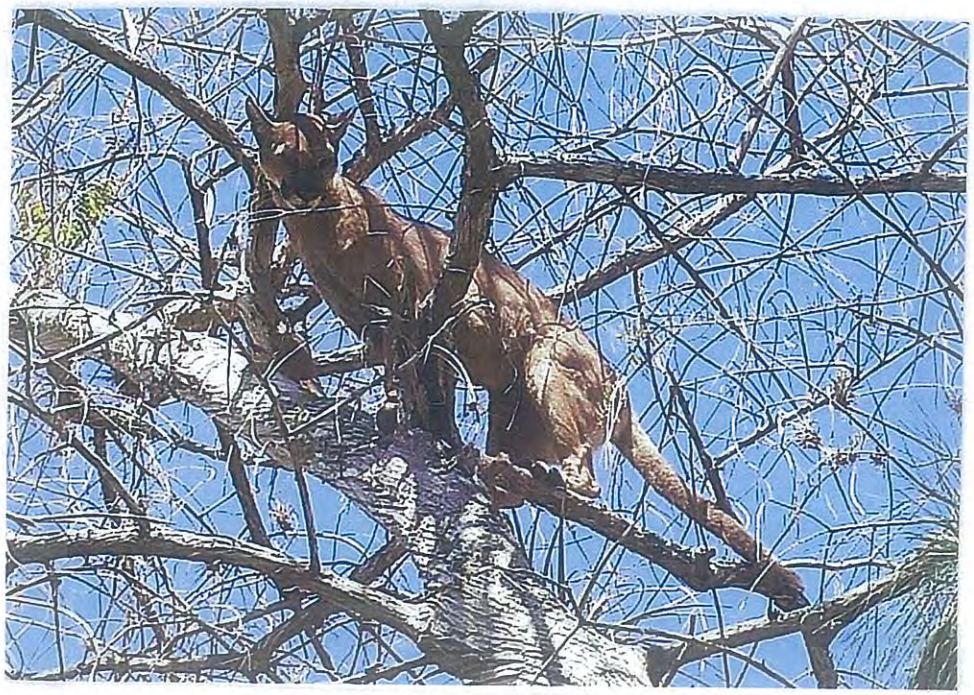
UTMs: 472161 2867272

Habitat: Pine/cypress mix

Observer (s): Cougar Nichols & The NPS Capture Team

Observation: FP 221 re-collared w/ GPS collar

Evidence:



Big Cypress National Preserve Florida Panther #221 February 14, 2015 Capture Data

Panther ID: FP221 **K#: none** **Sex: Female**

Age: just under 3 years good estimate because was still with dam when handled in 2013

Transponder #6959117 existing: **Ear Tattoos: L yes R yes both existing**

Ear Tag: none

Capture Reason: recollar with satellite collar

Date: **February 14, 2015** Temp: 70F Humidity: ~ 50% Conditions: variable cloud cover/wind

UTM: **treed: 472583 2871659 workup: 472303 2871133**

Location Description: Big Cypress National Preserve; Turner River Unit; 1 km west of Turner River Road; 8 km north of Hwy 41.

Habitat: cypress dome **Tree Type: cypress (jumped by hounds in pine island)**
Height in Tree: ~28 feet

Time Treed: 12:54 Time Darted: 14:58 No. of Jumps: Pre-Darting: **0** Post-Darting: **1**

Dart/Needle Recovered: Yes

Capture/Restraint Method: jumped when darted; hounds restrained; found via telemetry on ground 25 minutes (1523) and 600 meters southwest of darting site; team approached within 5 meters and cat was alert but not crawling; tried to run when 1 team member attempted to place net over head; restrained by net a few meters away

Personnel: NPS capture team members: Deborah Jansen, Annette Johnson, John Kellam, Dennis Giardina, Ralph Arwood; NPS DVM Kevin Castle; Rancher's Supply houndsman Cougar McBride.

RADIOCOLLAR

Frequency: 150.673 **Job/Serial #: 032918** **Manufacture Date :Jan 2015**

Type/Manufacturer: ATS Iridium LITE/GPS model G2110L

Duty cycled to come on @ 0600 for 12 hrs. Normal = 45 bpm; Mort = 75 bpm

Circumference (cm): 35 Breakaway no **Nuts Tight: yes**

MORPHOLOGY
Weight (lb): **82 without collars and fluids** Neck Circumference (cm) **33** Chest Girth (cm) **62**

Kink: **no** Cowlick: **no**

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ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	340/34	1.7ml	IM dart	14:58	#123014BS-2. **Est. wt- 70-75 lbs. ketamine 10mg/kg dosed for 75lb**
Propofol 10mg/ml	100mg	5ml	IV	15:24	
Midazolam	2.5	0.5	IM	15:28	Still moving a little on the ground
Propofol 10mg/ml	50mg	2.5ml	IV	15:30	
Propofol 10mg/ml	40mg	2cc	IV	15:47	
Propofol 10mg/ml	40mg	2cc	IV	16:22	

Quality of Anesthesia/Comments: Cat found at 15:23 on ground. Fair immobilization obtained with dart however she was able to move off a fair ways; still moving some when found on ground so gave Midazolam as above. Hyperthermic initially however became mildly hypothermic at the end of the event. Vital signs were otherwise within normal limits and stable. Most team members left cat 16:33. She was moving her head and responding to stimulus when vet left.
Video recovery data: 16:33: The team leaves. 17:17: FP221 begins to lift head. 17:20: FP221 begins to move about. 17:39: FP221 moves out of view

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
15:28	106 R		30			Began cooling efforts. ETOH poured on pads. Cool water poured on coat and rubbed in.
15:30	106.3 R	120	26	PP		
15:37	105.6 R		26			
15:39	105.0 R			PP		
15:44	105.3 R	120	20			
15:54	103.8 R			PP		Stopped cooling efforts
16:00		104	20			
16:07	100.2 R	104	16	PP		
16:25	98.9 R	104	16	PP		

FLUIDS

Type	Quantity	Route	Comments
LRS	1000cc	IV	
LRS	400cc	IV	

EXAM AND TREATMENT

PHYSICAL EXAM:

PHYSICAL CONDITION SCORE (I = BEST, V = WORST): II

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : Excellent skin, coat, muscling, and appropriate fat.

PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: normal
Dental: normal Photos:
Skin/hair: =normal
Musculoskeletal: normal

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Eyes/Ophthalmoscope: normal
Neuro: Normal for anesthetized cat
Genital/urinary: normal
Heart: normal Murmur: □ no
Lungs: normal
Abdominal cavity: normal Stomach: full
External parasites: abnormal Type: ticks present
Abnormal findings:

SNAP Test: FeLV- negative FIV- faint positive Comments: HW (D. striatus) negative

Reproduction

Female denned in May 2014; marked 2 kittens Pregnant: no
Mammary/Nipple (describe): Small, not discolored, no milk expressed. Mammaries not developed
Vagina: abnormal Comments: Very minimal hemorrhage noted, no vaginal trauma
Papillomas : no
Progesterone = 2.7 Relaxin = negative

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1ml	SQ	12115399A 12 Feb 16	Rt lower rear leg
Fel-o-vax PCT/FeLV	**1ml SQ/im**	1ml	SQ	D19341C exp16Dec15	Rt. lower front leg
Penicillin 300,000u/ml	**22,000(routine)-44,000(injuries-dog bite) U/kg IM/SQ**	3ml	SQ		Rt. Epaxial region
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**				Not given
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**				Not given

SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	3	Sent to FWC M. Cunningham DVM
	EDTA	3	Sent to FWC M. Cunningham DVM
	Heparin	2	Sent to FWC M. Cunningham DVM
	Small red top	1	Sent to FWC M. Cunningham DVM
	Skin		
	Hair	Shaved and plucked	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	Ticks	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		
	Semen		
	ECG		
	Other		

Post-recovery movements

Date: **February 15, 2015** Time: **12 noon** UTM: **472161 2867272**

Distance Moved: **4 km south** Days Between Locations : **1**

Comments:

page 3 of 3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS) Unit #9

Date: 2-15/15 **Panther FP#:** 232

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: Paynes Creek
UTM'S: 420065 3055227
Habitat:
Observer(s): Jen Korn

Observation: Collared male #232. Confirmation photo
Mapping Area / Photo Evidence:

unit #7

Florida Panther Annual Count

Date: 02/16/15 **Panther #** un-collared

Sign Found: (Tracks) Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: Lone adult female

Age/Condition of Sign: Fresh

Location: Dog Island

UTMs: close to Hwy 832 (200 yds)

Habitat: palmettoe & Pine

Observer (s): Roy & Logan

Observation: this panther is uncollared

Evidence:

60

unit #5

Florida Panther Annual Count

Date: 02/18/15 Panther # two uncollared

Sign Found: (Tracks) Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: 2

Age/Condition of Sign: fresh

Location: Patterson - South end

UTMs:

Habitat: oak palmetto

Observer (s): Roy & Logan

Observation: Adult Female & Kitten playing

Evidence:

Fe Male ↑
Kitten ↓

#240

Florida Panther Annual Count New Panther

Unit #3

Date: 2-18-15 **Panther #** 240

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Tenmile River Unit BICY

UTMs: 479761 2883948

Habitat: Pine/cypress mix

Observer (s): Cougar McBride + The NPS Capture Team

Observation: Female panther #240 treed. ~~Cat~~ ~~very~~ ~~tiger~~. New collar deployed. Cat was w/ 187

Con't Next 3 pages

Big Cypress National Preserve Florida Panther #240 February 18, 2015 Capture Data

Panther ID: FP240 K#: 385 Sex: Female Age: 2 years Known

Born December 16, 2012 to FP151; 1 of 2 female kittens

Transponder #:000695A4ED Existing Ear Tattoos: L yes R yes both new

Ear Tag: none

Capture Reason: opportunistic; would have been too late in the day to pull off hounds and have them tree FP187

Date: 18 February 2015 Temp 70sF Humidity:low Conditions: variable cloud cover/winds

UTM: 479761 2883948

Location Description: Big Cypress National Preserve; Turner River Unit; 10 km south of I-75; 6 km east of Turner River Road

Habitat: pine island Tree Type: pine Height in Tree: 24 feet

Time Treed: 14:50 Time Darted: 16:01
No. of Jumps: 0 Dart/Needle Recovered: Yes

Capture/Restraint Method: McBride/Kellam were tracking FP187 for recollaring since collar was failing. Saw FP187 with uncollared female in Airplane Prairie. Released hounds which treed female.

Personnel: NPS capture team members: Deborah Jansen, Annette Johnson, John Kellam, Dennis Giardina, Ralph Arwood; NPS DVM Kevin Castle; Rancher's Supply houndsman Cougar McBride.

RADIOCOLLAR

Frequency: 150.122 Job/Serial #:034425 Manufacture Date : 1/2015

Type/Manufacturer: ATS Iridium LITE/GPS model G2110L

Duty cycled to come on @ 0600 for 12 hrs.

Circumference (cm): 36 Breakaway no Nuts Tight: Yes

MORPHOLOGY
Weight (lb): **78 lbs without collar and fluids** Neck Circumference (cm) **35**
Chest Girth (cm) **63**

Kink: **No** Cowlick: **No**

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ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	400mg	2cc	IM dart	16:01	#123014BS-2 At 10mg/kg given dose for 88lb.
Midazolam 5mg/ml	2.5mg	0.5ml	IM dart	16:01	#081463
Propofol 10mg/ml	30mg	3ml	IV	16:25	
Propofol 10mg/ml	20mg	2ml	IV	16:33	
Propofol 10mg/ml	20mg	2ml	IV	16:48	
Propofol 10mg/ml	20mg	2ml	IV	16:53	
Yohimbine 2 mg/ml	3mg	1.5 ml	IV	17:00	In anticipation of late departure and hoping for more rapid recovery.
Propofol 10mg/ml	25mg	2.5ml	IV	17:13	
Propofol 10mg/ml	10mg	1ml	IV	17:26	

Quality of Anesthesia/Comments: Anesthetic induction was good; IV catheter placed without additional propofol initially. Normal temp at capture, then became hypothermic during procedure. Heating not applied. Most of the team left the cat at 17:30. Stayed with panther until darkness began to fall (18:00) and team needed to leave. Cat was not holding head up or responding to stimuli, however team safety took priority. Cat ultimately recovered safely.

Video recovery data: 17:33: The team leaves. 18:36: FP240 begins to lift head. 18:51: FP240 sits up. 20:54: FP240 is standing and starting to walk but is still very shaky. 21:43: FP240 walks out of view.

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
16:17	101.1 R		20			
16:28	101.2 R	110	16	PP		
16:36	100.2 R		14			
16:43			12			
16:50	98.9 R	90	16	PP		
17:05	97.3 R	84	20			
17:21	96.7 R	84	10			
17:40		100	14			Viewed from a short distance
17:50		110	18			Viewed from a short distance.

FLUIDS

Type	Quantity	Route	Comments
LRS	1000ml	IV	

EXAM AND TREATMENT

PHYSICAL EXAM:

PHYSICAL CONDITION SCORE (I = BEST, V = WORST): II

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : Excellent muscling, coat, skin, and fat.

PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: normal

Dental: normal Photos:

Skin/hair: normal

page 2 of 3

Musculoskeletal: normal
Eyes/Ophthalmoscope: normal
Neuro: normal for an anesthetized cat
Genital/urinary: normal
Heart: normal Murmur: no
Lungs: **abnormal** Stridor appreciated (stridor is a high-pitched, wheezing sound caused by disrupted airflow. Airflow is usually disrupted by a blockage in the larynx or trachea),with referred upper airway sounds into lungs. Likely due to mild (unilateral) nasal obstruction or malformation, however gave Convenia, 8 mg/kg SQ prophylactically.
Abdominal cavity: normal Stomach: full
External parasites: abnormal Type: Ticks

SNAP Test: FeLV- negative **FIV-** Positive Comments: HW (*D. striata*) Positive

Reproduction

Female Kittens: no Pregnant: unknown at capture, however, she gave birth the last week in May so likely was in estrus and bred by FP187 Mammary/Nipple (describe): Nipples small, not discolored; no milk expressed. Mammaries not hypertrophied.
Vagina: Normal : Very minimal hemorrhage noted, no vaginal trauma
Papillomas : no
Progesterone: 1.1 Relaxin: negative

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1ml	SQ	12115399A 12 Feb 16	Left rear leg
Fel-o-vax PCT/FeLV	**1ml SQ/im**	1ml	SQ	D19341C exp16Dec15	Lt. front leg
Penicillin 300,000u/ml	**22,000(routine)-44,000(injuries-dog bite) U/kg IM/SQ**	3ml	SQ		Left lateral chest
Convenia 80mg/ml	**Given 8 mg/kg**	3ml	SQ		Left rear leg.
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**				None given
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**				None given

SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	3	Sent to FWC M. Cunningham DVM
	EDTA	3	Sent to FWC M. Cunningham DVM
	Heparin	2	Sent to FWC M. Cunningham DVM
	Small red top	1	Sent to FWC M. Cunningham DVM
	Skin	2 ear punch biopsies	Given to FWC Naples
	Hair	Shaved and plucked	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	Ticks	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		

Post-recovery movements

Date: **Feb. 19, 2015** Time: **2000** UTM: **480089 2883416**

Distance Moved: **620 meters** Days Between Locations **:1**

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★#93!!

Florida Panther Annual Count

unit #3

Date: 2-19-15 **Panther #** 93

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Conchu Billie Bicy

UTMs: 481430 2875269

Habitat: Pine and Cypress

Observer (s): Congar McBride + The NPS Capture Team

Observation: Failed collar #93 treed in a high pine tree and we waited for her to come down. Treed again in a cypress tree. Darted and Re-collared

Evidence

con't Next 3 pages

Big Cypress National Preserve Florida Panther #93 February 19, 2015 Capture Data

Panther ID: FP 93 **K#: K58** **Sex: Female** **Age: 16 years known**

Transponder #12A9FE5 existing Ear Tattoos: L yes R yes existing and still visible

Ear Tag: none

Capture Reason: opportunistic:

has had a failed collar since Dec. 7, 2007; treed her on Feb. 6, 2013_ but too high

Date: 19 February 2015 Temp: 70F Humidity: ~50% Conditions: variable cloud cover/winds

UTM: first tree: 475151 2874467; second tree: 475149 2874470

Location Description: Big Cypress National Preserve; Turner River Unit; 11.7 km north of Hwy 41; 1.4 km east of Turner River Road

Habitat: first in a pine island, then a cypress strand **Tree Type: cypress** **Height in Tree:** 27 feet

Time Treed: ~1145 **Time Darted:** 1202
No. of Jumps: 1 crawl Pre-Darting: **treed high in a pine @ 1040; team left and she crawled down tree; released hounds and she treed in a low cypress** Post-Darting: **0**

Dart/Needle Recovered: X Yes

Capture/Restraint Method: hounds were out on Concho Billie Trail near Turner River Road; treed FP93 in tall pine; team and hounds left area and Jansen monitored and watched FP93 climb down tree; informed team and hounds released; FP93 treed in cypress strand; darted and stayed in tree; tied and lowered to net by Dennis Giardina

Capture Description:
Personnel: NPS capture team members: Deborah Jansen, John Kellam, Dennis Giardina,; NPS DVM Kevin Castle; Rancher's Supply houndsman Cougar McBride.

RADIOCOLLAR

Frequency: 150.160 **Job/Serial #: 668461A** **Manufacture Date 1/2013:**

Type: Telonics mod-335 VHF duty-cycled to start at 0600 for 12hrs;

Old collar was 1 lb. 4 oz; new collar is 9 oz.

Circumference (cm): 34 Breakaway no **Nuts Tight: yes**

MORPHOLOGY
Weight (lb): 77 lbs without collar and fluids **(63 in 2000; 90 in 2002; 77 in 2006)**
Neck Circumference (cm) 32 (33 in 2000 and 2002; 31 in 2006)
Chest Girth (cm) 61 (67 in 2000 and 2002; 62 in 2006)

Kink: **no** □ **Photo** Cowlick: **no**
Comments:

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ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	400mg/40mg	2cc	IM dart	T 0	123014BS-3 At Ketamine 10mg/kg: **dosed for 88lb.**
Midazolam 5mg/ml	2.5mg	0.5ml	IM dart	T 0	#081463
Propofol 10mg/ml	50	5	IV	T + 15	
Propofol 10mg/ml	30	3	IV	T + 30	
Yohimbine	3 mg	1.5	IV	T + 45	
Propofol 10mg/ml	30	3	IV	T + 60	
Propofol 10mg/ml	20	2	IV	T + 80	

Quality of Anesthesia/Comments: Excellent anesthesia obtained with dart. Some movement when she was in the net on the ground, but was able to place IV catheter and then start propofol. Vital signs remained normal and stable throughout the event. Body temperature was normal at capture and in fact decreased to 98.6 during handling. No warming measures were necessary. Gave Yohimbine ~ 0.1 mg/kg 45 minutes post-induction to maintain just on Propofol and to try and allow for quicker recovery. No noticeable increase or changes in recovery noted.

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
T + 15	104.0	110	28	Pink	NA	
T + 25	103.4	90	20	Pink	NA	
T + 40	101.0	90	16	Pink	NA	
T + 60	100.6	100	20	Pink	NA	
T + 80	99.0	100	20	Pink	NA	
T + 95	98.6	110	24	Pink	NA	

FLUIDS

Type	Quantity	Route	Comments
LRS	1 Liter	IV Catheter	

EXAM AND TREATMENT

PHYSICAL EXAM:

PHYSICAL CONDITION SCORE (I = BEST, V = WORST): II

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : Excellent muscling and proportionate fat; skin with many tick scars, otherwise in good shape.

PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: normal

Dental: normal Photos: Yes

Skin/hair: abnormal due to tick scars

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Musculoskeletal: normal
Eyes/Ophthalmoscope: normal
Neuro: normal for anesthetized cat
Genital/urinary: normal
Heart: normal Murmur: no
Lungs: normal
Abdominal cavity: normal Stomach: full
External parasites:: Ticks

SNAP Test: FeLV- Neg FIV- Neg Comments: HW (D. striatus) Pos

Reproduction

Female Kittens: no Pregnant: no
Mammary/Nipple (describe): Dark colored nipples, not enlarged, no milk expressed. Mammaries not enlarged.
Vagina: Normal
Papillomas : yes Comments:
Progesterone 2.0 Relaxin negative

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1 ml	SQ	12115399A 12 Feb 16	Rt lower rear leg
Fel-o-vax PCT/FeLV	**1ml SQ/im**	1 ml	SQ	D19341C exp16Dec15	Lt.front lower leg
Penicillin 300,000u/ml		3 ml	SQ		Lt. dorsal abdomen routine
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**				
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**				Not given

SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	3	Sent to FWC M. Cunningham DVM
	EDTA	2	Sent to FWC M. Cunningham DVM
	Heparin	2	Sent to FWC M. Cunningham DVM
	Small red top	1	Sent to FWC M. Cunningham DVM
	Skin	One ear biopsy	Sent to FWC Naples
	Hair	Yes	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	Yes	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		
	Semen		
	ECG		
	Other		

Post-recovery movements

Date: Feb. 20, 2015 Time: PM UTM: checked from ground and could faintly hear signal to north
Flight location: Date: Feb. 25, 2015 Time: 1414 UTM: 481430 2875269

Distance Moved: **6.3 km east** Days Between Locations : **6 (1 day/wk monitoring by NPS)**

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UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit # 4

Conf

Date: 2-19-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam Photo

Location: Bear Island, BICY
UTM'S: Camera B39
Habitat: Hardwood hammock
Observer(s): Brian Kelly

Observation: Female panther with a large wound on her rear right foot. Looks bad and the panther looks poor.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-20-15 **Panther FP#: 183**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 465693 2880648
Habitat: Hardwood hammock
Observer(s): Annette Johnson, NPS

Observation: Collared male #183 walk by trail cam located in the Deep Lake unit of Big Cypress NP
Mapping Area / Photo Evidence:

unit #8

Florida Panther Annual Count

Date: 02/23/15 **Panther #** un-collared

Sign Found: Tracks, Scat, (Scrape), Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: fresh - 24 hrs

Location: Pepper Ranch Side rd. OFF MAin tRAm going South OFF Main Rd

UTMs: 17R-0448357-UTM-2923181

Habitat: Pine - OAk hammock

Observer (s): Ray & Logan

Observation: Hind foot visible in rear of scrape

Evidence:

31 191.9.

•, cont.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

unit # 2

Date: 2-23-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: (M) (F) Unknown
Number / Composition of Individuals: 2
Age/Condition of Sign: Trail cam

Location: SR 29 Underpass

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Male and female walking together under Bridge. Female is cont. of the broken tail female. Male is different than others by lack of cowlick and tail features.

Mappir

Draft #4
Cat

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 2-24-15 **Panther FP#: uncollared but has ear tags**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B50
Habitat: Hardwood hammock
Observer(s): Brian Kelly

Observation: Male panther with red ear tag in left ear walks by trail cam.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit # 1

Florida Panther Annual Count

Date: 02/24/13 **Panther #** track – uncollared

Sign Found: (Tracks,) Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Fresh

Location: Dove Field Rd Near intersection

UTMs: off Turn mill grade

Habitat: palmetto and scattered oaks

Observer (s): Roy & Logan

Observation:

Evidence:

Florida Panther Annual Count

Unit #7

Date: 02/24/15 **Panther #** uncollared

Sign Found: (Tracks,) Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: fresh

Location: OKWRA

UTMs: Sic Island

Habitat: oak palmetto

Observer (s): Troy & Logan

Observation: fresh female track dogs could smell it.

Evidence:

Re-collar

Failed collar

Florida Panther Annual Count

Unit #3

Date: 2-24/15 **Panther #** 162

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Turner River Unit BICY

UTMs: 487912 2872208

Habitat: mixed swamp hardwood

Observer (s): Congan McBride + The NPS Capture Team

Observation: Failed collar #162 treed in a broken cypress tree! was able to dart her and recollar her after years of effort!

con't Next 3 pages

Big Cypress National Preserve Florida Panther #162 February 24, 2015 Capture Data

Panther ID: FP162 **K#: none** **Sex: female** **Age: 10 years estimated**

Transponder #: 671CF57 existing **Ear Tattoos:** L yes R yes Existing

Ear Tag: none

Capture Reason: recollar before battery fails (Telonics mod-400 working for 6 years)

Date: 24 February 2015 **75-80 F:** **Humidity: ~low** **Conditions: variable skies**

UTM: treed @ 488049 2871085 workup site: 488040 2870782

Location Description: Big Cypress National Preserve; Turner River Unit; 10 km north of Monument Lake

Habitat: mixed swamp hardwood **Tree Type: cypress with broken top** **Height in Tree:** 25 feet

Time Treed: 10:01 Time Darted: 10:59
No. of Jumps: Pre-Darting: **1** Post-Darting: **1**

Dart/Needle Recovered: Yes

Capture/Restraint Method: □ jumped from tree when darted; hounds restrained; located her via telemetry 25 minutes post-darting and 300 meters to south; still able to crawl; restrained with net

Personnel: : NPS capture team members: Deborah Jansen, Annette Johnson, John Kellam, Dennis Giardina, Ralph Arwood; Naples Emergency Pet Hospital DVM Erik Madison; Rancher's Supply houndsman Cougar McBride.

RADIOCOLLAR

Frequency: 150.830 **Job/Serial #:** 668153A **Manufacture Date : 1/2013**

Type: Telonics mod-400 with duty cycle of 12 hrs on starting @ 0600. Normal: 45; Mort 75

Circumference (cm):35 Breakaway no **Nuts Tight: Yes**

MORPHOLOGY
Weight (lb): **82 lbs without collar and fluids** **(72 lbs in 2008; 75 lbs in 2009)**
Neck Circumference (cm) **34** **(33 in 2008 and 2009)**
Chest Girth (cm) **64** (62 in 2008 and 60 in 2009)

Kink: **No** □ Cowlick **No**
Comments:

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ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	400mg	2.2ml	IM dart	10:59	123014BS-3 At 10 mg/kg was given a dose for 97 lbs.
Midazolam 5mg/ml	2.5mg	0.5ml	IM dart	10:59	#081463. Panther jumped from tree and ran 300 meters after darted.
Propofol 10mg/ml	60mg	6ml		11:28	Motor movements uncoordinated and attempting to flee. Manually restrained with net. Mainlined propofol.
Propofol 10mg/ml	30ml	3ml		11:38	IV initiated.
Propofol 10mg/ml	30ml	3ml		11:40	
Propofol 10mg/ml	20ml	2ml		12:10	
Propofol 10mg/ml	20ml	2ml		12:27	
Propofol 10mg/ml	20ml	2ml		12:35	Slight movement of hind legs.

Quality of Anesthesia/Comments:
When found on ground 25 minutes post-darting, panther was still attempting to flee but had an unsteady gait. Manually restrained with net and given IV propofol. Anesthesia well maintained with propofol boluses as needed.

Video recovery data: 12:39: The team leaves capture site. 13:11: FP162 begins to lift head. 13:17: FP162 starts to move around but cannot stand up. She then goes back to sleep. 14:05: FP162 begins to crawl about. 14:07: FP162 crawls out of camera view.

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
11:30	107.8					Cooling efforts begun. Cool water poured over body /rubbed into fur. Rubbing alcohol poured on pads. Cool tap water enema given. Ice packs placed in groin/ axilla areas.
11:38	107.8	136	28	PP	90%	Cooling efforts continued throughout workup.
11:48	106.0	138	24		90%	
12:00		138	24	PP	95%	
12:02	104.5				95%	
12:15	104.5	123	24		95%	
12:27		120	24	PP	97%	
12:35	104.2	120	24			

FLUIDS

Type	Quantity	Route	Comments
Cool tap water enema	900ml	Rectal	Given to cool core body temperature
LRS	2000ml	IV	

EXAM AND TREATMENT

PHYSICAL EXAM:
PHYSICAL CONDITION SCORE (I = BEST, V = WORST): **III**

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : In good physical condition.

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PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: **normal**
Dental: **normal** Photos:
Skin/hair: **normal** Few ticks; no tears on ears
Musculoskeletal: **normal**
Eyes/Ophthalmoscope: **normal**
Neuro: **normal**
Genital/urinary: **normal**
Heart: **normal** Murmur: □ Yes □ No
Lungs: **normal**
Abdominal cavity: **normal** Stomach: □ Empty □ Full □ Gorged
External parasites: normal Type: x Ticks

SNAP Test: FeLV- Negative **FIV- Negative** Comments:

Reproduction

Female No palpable pregnancy . Mammary/Nipple (describe): No swelling or lactation.
Vagina: normal Papillomas : none

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1ml	SQ	12115399A 12 Feb 16	Rt lower rear leg
Fel-o-vax III PCT/FeLV	**1ml SQ/im**	1ml	SQ	D19341C exp16 Dec15	Rt. front leg
Penicillin 300,000u/ml	**22,000(routine)-**	2.8 ml	SQ		Rt. Epaxial region
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**				None given
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**				None given

SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	3	Sent to FWC M. Cunningham DVM
	EDTA	3	Sent to FWC M. Cunningham DVM
	Heparin	2	Sent to FWC M. Cunningham DVM
	Small red top	1	Sent to FWC M. Cunningham DVM
	Skin	1 ear punch biopsy	Given to FWC Naples
	Hair	Shaved and plucked	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	Ticks	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		
	Semen		
	ECG		
	Other		

Post-recovery movements

Date: Feb. 25, 2015 Time: 1445 UTM: 487912 2872208
Distance Moved: **1.4 km north** Days Between Locations : **1**

page 3 of 3

young male panther 2013 P.C.

Rancher's Supply Field Data

Time Start Friday

Time Stop Corkscrew unit #8

Date 02/27/15 Observer Roy & Patsy Site [redacted] Corkscrew

Activity: hunting ___ scouting ___ exercising hounds ✓ other _____

Sign found: panther _____ bear _____ coyote _____

Capture: bobcat treed ___ bobcat bayed ___ panther treed: collared ___ uncollared ___ failed collar ___

ATCP ___ ATUP ___ handled _____ transponder ___ Panther capture: sex ___ age ___

weight _____ kink ___ cowlick ___ tree type _____ height in tree ___ jumped ___ pre-dart

___ post-dart ___ # of times jumped ___ Kitten capture: guided by telemetry ___ # of kittens ___

sex _____ age _____ GPS: 17R _____ UTM _____

Photo/Map:

2/23/13

Notes: Met patsy @ Corkscrew
we checked new carmer's Results
captured young male with loopy tail

Unit #3

Florida Panther Annual Count

Date: 2-28-15 **Panther #** 180

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Deep Lake Unit BICY

UTMs: 466562 2888118

Habitat: Hardwood Hammock

Observer (s): Congar McBride and the NPS Capture Team

Observation: Pregnant female darted and recollared.

Ev

cont Next 4 pages →

Big Cypress National Preserve Florida Panther #180 February 28, 2015 Capture Data

Panther ID: FP 180 K#: 264 **Sex:** Female **Age: 7 years known**

Transponder #: 0006957DE2 Existing **Ear Tattoos:** L yes R yes Existing **Ear Tag: none**

Capture Reason: recollar before battery failure

Date: 28 February 2015 **Temp:** 70s F **Humidity:** ~50% **Conditions:** variable cloud cover

UTM: 466552 2887503 treed; 466687 2887696 workup 230 meters to northeast

Location Description: Big Cypress National Preserve; Deep Lake Unit; 5 km south of I-75; 1 km east of SR 29.

Habitat: hardwood hammock Tree Type: laurel oak Height in Tree: ~22 feet

Time Treed: 10:19 **Time Darted:** 11:13
No. of Jumps: 1 Pre-Darting: **0** Post-Darting: **1** **Dart/Needle Recovered: Yes**

Capture Description/restraint method: Cat was darted and jumped; hounds restrained; located cat via telemetry on ground 25 minutes post-darting; was still alert and tried to crawl away; restrained with net

Personnel: **NPS capture team members: Deborah Jansen, Annette Johnson, John Kellam, Dennis Giardina, Ralph Arwood; Zoo Miami DVM Frank Ridgley; Rancher's Supply houndsman Cougar McBride.**

RADIOCOLLAR

Frequency: 150.924 **Job/Serial #:**032919 **Manufacture Date: 2/2015**

Type/Manufacturer: ATS Iridium LITE/GPS model G2110L

Duty cycled to come on @ 0600 for 12 hrs.

Circumference (cm): 38 Breakaway no **Nuts Tight: yes**

MORPHOLOGY
Weight (lb): **110 lbs** (topped scale @ 112 lbs with 1 lb collar and 3+ lb fluids); 93 lbs in 2010; 72 lbs in 2012
Neck Circumference (cm): **39**. (previous was 35 in 2010 and 2012)
Chest Girth (cm) **69** (previous was 65 in 2010 and 64 in 2012)

Kink: **No** Cowlick: **No**

page 1 of 4

ANESTHESIA

Drug mg/ml	Mg given	Volume	Route	Time	Comments, bottle #
[Ket(200mg)/Xyl(20mg)]mL	420mg	2.1ml	Dart IM	11:13	123014BS-3Est. 84lb. At 10 mg/kg, was dosed for 92 lbs
Midazolam 5mg/ml	4.5mg	0.9ml	Dart IM	11:13	#081463. Panther jumped from tree and ran 230 meters after darted.
Propofol 10mg/ml	60mg	6ml	mainlined	11:45	Manually restrained with net.
Propofol 10mg/ml	20mg	2ml	IV	11:59	
Propofol 10mg/ml	20mg	2ml	IV	12:03	
Propofol 10mg/ml	20mg	2ml	IV	12:13	
Propofol 10mg/ml	20mg	2ml	IV	12:19	
Propofol 10mg/ml	20mg	2ml	IV	12:25	
Ketamine 100mg/ml	100mg	1ml	IV slowly	12:27	
Propofol 10mg/ml	20mg	2ml	IV	12:42	
Propofol 10mg/ml	15mg	1.5ml	IV	12:46	
Propofol 10mg/ml	20mg	2ml	IV	12:55	

Quality of Anesthesia/Comments: This cat showed minimal effects from the xylazine dose administered initially and largely showed effects of the ketamine and midazolam with an intact strong corneal reflex throughout the immobilization. The corneal reflex remained intact even after propofol boluses given IV via the catheter that remained patent throughout the procedure but jaw tone remained slack. Because of the strong corneal reflex and tongue and whisker movements at one point, it was given a dose of ketamine IV to try and keep it stable for the rest of the procedure but it became apneic and developed a bradycardia with quieted heart auscultation after the dose. Nasal flow-by oxygen was initiated because it regained spontaneous breaths before intubation could occur. Besides the one episode of bradycardia, the heart rate varied between 113 and 130 BPM. Observed to be reacting to sounds, swallowing and lifting and moving its head at last observation before the team retreated to avoid startling.

Video recovery data: 13:14 The team leaves. FP-180 is moving her head. She then goes back to sleep 13:47 FP-180 sits up. 13:49 FP-180 stumbles out of camera view. 14:39 It starts to rain.

VITAL STATISTICS

Time	Temp	Pulse	Resp	MM	O_2 Sat	Comments
11:55	107.1		40			Cooling efforts begun. Cool tap water enema given. Cool water poured over body /rubbed into fur. Fanned with palm fronds. Ice packs placed in groin/ axilla areas.
12:03	104.4		38			
12:12	104.5	128	30	PP		
12:26	104.1		24			
12:30		125	12		96%	O2 2L flow-by initiated.
12:32		123	16	PP	96%	Respirations, even, unlabored.
12:40	103.9	121	20			
12:46		119	20		99%	
12:55	103.6	117	16		97%	
13:03		113	20	PP	97%	
13:10	103.5		20			

FLUIDS

Type	Quantity	Route	Comments
Cool Tap water enema	600ml	Rectal	Given to cool core body temperature.
LRS	900ml	IV	
LRS	400ml	IV	

EXAM AND TREATMENT

PHYSICAL EXAM:

PHYSICAL CONDITION SCORE (I = BEST, V = WORST): I

PHYSICAL DESCRIPTION (muscling, fat, coat quality, etc.) : Good fat stores and muscling. Many scars and a small amount of tick scarring but overall her coat quality was good.

PHYSICAL EXAM CHECKLIST: **Comments:**

Oral: Abnormal – Ulcerated coalescing oral papillomas on the ventral tongue surface midway the length and just right of the phrenulum

Dental: **normal** Photos:

Skin/hair: abnormal – Many scars from past significant wounds. Small healing wound on her right shoulder with pink moist dermis exposed ~1cm in diameter

Musculoskeletal: **normal**

Eyes/Ophthalmoscope: **normal**

Neuro: Only observed cat sedated. Houndsmen and biologists did not describe any abnormalities when treed.

Genital/urinary: - Did not examine

Heart: **normal** Murmur: **No**

Lungs: **normal**

Abdominal cavity: Stomach: **Full**– Did not fully palpate due to full stomach and abdominal tension

External parasites: abnormal Type: **Ticks**

Comments: Unfortunately, due to the difficulty in drawing blood and the quality of the anesthesia for this immobilization, the vet was unable to do as thorough of an exam as he would have preferred. There could have been some minor abnormalities not noted in this report but the cat appeared in great general condition.

SNAP Test: FeLV- Neg **FIV- Neg** Comments: Heartworm positive on SNAP

Reproduction

Female Kittens: no Number: Pregnant: unknown Est. Fetal Age/size:

Mammary/Nipple (describe): Previous nursing in history and evident by nipple conditions seen.

Vagina: □ Normal □ Abnormal Comments: Exam not performed. Papillomas : unknown

Progesterone 9.5. Relaxin negative

INJECTIONS/TREATMENTS:

Type	Sug Dose	Quantity	Route	Lot# Exp.	Comments
Imrab 3 Rabies	**1 ml SQ/im**	1ml	SQ	12115399A 12 Feb 16	Rt rear lateral leg
Fel-o-vax PCT/FeLV	**1ml SQ/im**	1ml	SQ	1934114A 18Aug15 D19341C	Rt front lateral leg
Penicillin 300,000u/ml	**22,000(routine)-44,000(injuries-dog bite) U/kg IM/SQ**	3ml	SQ		Rt. Epaxial region
Droncit	**3-5ml IM/SQ- 1ml per 20 lb.**				None given
Ivomec	**.5 ml/110lbs or approx. 0.1ml / 20 lbs SQ**				None given

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SAMPLES:

√	Sample	# of Tubes	Stored/Sent to:
	Serum	1full, 2 partial	Sent to FWC M. Cunningham DVM
	EDTA	2 partial	Sent to FWC M. Cunningham DVM
	Heparin	1 full, 1 partial	Sent to FWC M. Cunningham DVM
	Small red top	1 partial	Sent to FWC M. Cunningham DVM
	Skin	1 ear punch biopsy	Given to FWC Naples
	Hair	Shaved and plucked	Sent to FWC M. Cunningham DVM
	Feces		
	Ectoparasites	Ticks	Sent to FWC M. Cunningham DVM and Durland Fish
	Swab		
	Semen		
	ECG		
	Other		

Post-recovery movements

Date: March 1, 2015 Time: 12 PM UTM: 466562 2888118

Distance Moved: **440 meters** Days Between Locations **:1**

Comments:

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Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-1-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam Photo

Location: FPNWR
UTM'S: Camera FP30
Habitat: Cypress swamp
Observer(s): Brian Kelly

Observation: Male panther with fight wounds on his face and head. Right ear has an identifiable notch on the outside shoulder.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

• unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-3-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition lands, BICY
UTM'S: Camera A-26
Habitat: Pine / sawgrass prairie
Observer(s): Brian Kelly

Observation: Female panther walks by trail cam. Exhibiting wounds on right flank and upper shoulder.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #4

Cat

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-5-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition lands, Big Cypress NP
UTM'S: Camera A-40
Habitat: Pine / palmetto mix
Observer(s): Brian Kelly

Observation: Male panther making a urine marker in front of a trail cam. Looks like it has a kinked tail, but no way to know for sure
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #8

Date: 3-5-15 **Panther FP#:** uncollared

Sign Found: **Tracks** **Scat** **Scrape** **Kill** **Live Panther** **Other:** Trail cam
Sex: **M** **F** **Unknown**
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam

Location: Pepper Ranch Boardwalk (Collier - Pepper Ranch Preserve)
UTM'S: 26.436 -81.5158
Habitat: Brazilian Pepper, Oak, Willow mix
Observer(s): Christal Segura

Observation: Panther was photographed by trail camera sneaking through the trees just off the boardwalk at the Pepper Ranch. Was not able to identify the sex. The panther walked into the woods away from view.
Mapping Area / Photo Evidence:

unit #7

Florida Panther Annual Count

Date: 03/06/15 **Panther #** uncollared

Sign Found: (Tracks), Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: one adult Male

Age/Condition of Sign: Trailed w/ hounds

Location: O'K WMA

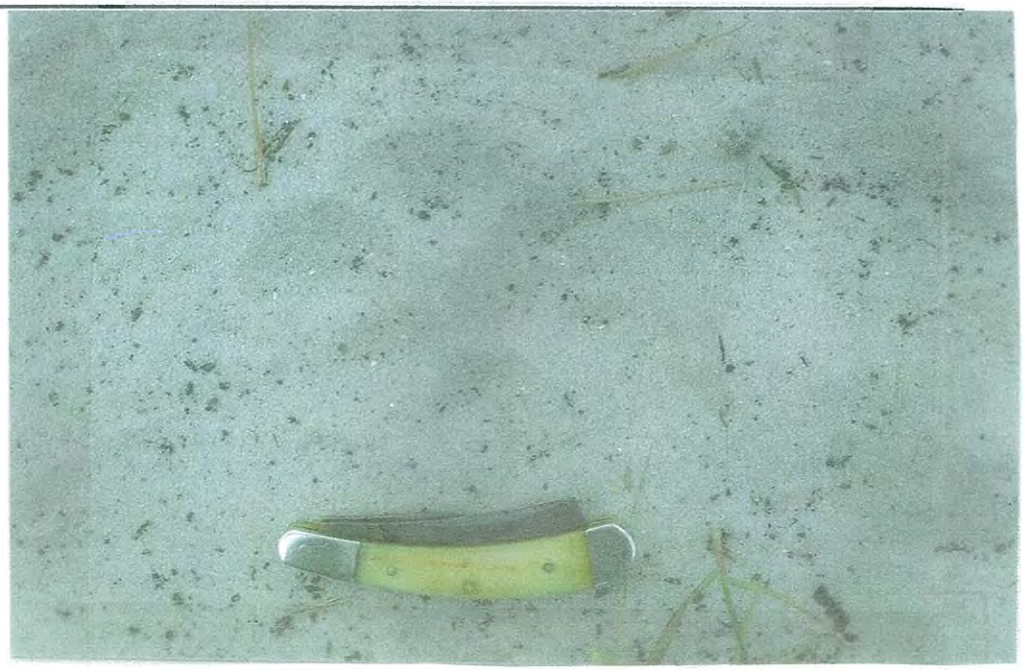
UTMs:

Habitat: palmetto - Pine

Observer (s): Roy & Cougar

Observation: Trailed this panther Accross Hwy 832 North into alico Ranch

Evidence:



Florida Panther Annual Count

Unit #1

Date: 03/06/15 **Panther #** un-collared

Sign Found: (Tracks,) Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals:

Age/Condition of Sign: Trailed w/ hounds

Location: S. of wild cow

UTMs:

Habitat: big marsh

Observer (s): Roy & Congor

Observation: Started panther on wild cow trailed accross big marsh into Mustang Loop stopped hounds due to heat

Evidence:

0 unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-11-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: _Trail Cam Photo

Location: Big Cypress NP
UTM'S: 471306 2865405
Habitat: Cypress/Pine mix
Observer(s): Annette Johnson, NPS

Observation: Male panther scent marking a cypress sapling using facial glands.
Mapping Area / Photo Evidence:

Unit #8

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-11-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: Alico Underpass (850)

✓

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Female panther moving N under the 850 underpass.

Mappin

Broken tail Female

Unit # 4 Cont

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-12-15

Panther # (if kittens): uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Treed by hounds

Location: FPNWR

UTM'S:

Habitat: Oak hammock

Observers(s): Ray & Cougar McBride

OBSERVATION: Female panther with anomolous tail characteristic. This panther has been photographed on multiple occasions over the last few years.

unit #8

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 3-16-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: (M) F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: Alico Underpass (850)

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Male panther walking N. under the underpass headed into the ~~wd~~ Lee Co. Port Authority and the Lee Co. water well field.

Mapping

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-16-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Everglades Natl. Park
UTM'S: None provided
Habitat: saw grass / pine lands
Observer(s): Mark Parry

Observation: Female panther with no features. No kink, no cowlic, no ear notches.
Mapping Area / Photo Evidence:

Photo evidence on back----→

***FP1 (adult female)**

Lack of features, no kink, no cowlic, thick tail, no prominent ear notches. Smaller, sleeker cat. "Tick" or flecking pattern on right shoulder discernible by day, resulting in positive ID. White spot on left side of neck, generally only visible in daylight photos.

Unit #9

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-21-15 **Panther FP#:** uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: Lone Ranger
UTM'S: 469777 2960830
Habitat: Oak Hammocks / Pine woods
Observer(s): Jen Korn

Observation: Large male panther photographed by trail cam
Mapping Area / Photo Evidence:

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-22-15 **Panther FP#: 222 and 1 juv**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Two
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP14
Habitat: Oak hammock
Observer(s): Brian kelly

Observation: FP # 222 with one juvenile walks past a trail camera on the Refuge
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #3

Date: 3-27-15 **Panther FP#: 230**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: _Trail Cam Photo

Location: Big Cypress NP
UTM'S: 507481 2871728
Habitat: Pine island
Observer(s): Annette Johnson, NPS

Observation: Male panther #230 making a urine marker near a fallen, decomposing pine tree
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6

Date: 3-27-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP34
Habitat: Oak hammock
Observer(s): Brian Kelly

Observation: Different male panther walks by trail cam. Panther has identifiable characteristics on his ears.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Florida Panther Annual Count

Unit #5

Date: 3-27-15 **Panther #** unknown

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Trail

Location: E. Blocks

UTMs: 0452593 2885292

Habitat:

Observer (s): Conyer McBride & Roy McBride

Observation: Young male (sub-adult) in good health treed by hounds in E. Blocks.

Evidence:

Unit #8

Cont

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 3-29-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other

Sex (M) F Unknown

Number / Composition of Individuals: one

Age/Condition of Sign: Trail cam

Location: Alico Underpass (850)

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Conf. of same male from 3-16 This time walking S. under the bridge.

Mappin

Unit #3

Florida Panther Annual Count

Date: 3-30-15 **Panther #** uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: one · Treed

Age/Condition of Sign: Treed by hounds

Location: Deep Lake Unit BICY

UTMs: 0473076 2887739

Habitat: Cypress

Observer (s): Cougar McBride

Observation: Young male panther treed by hounds. great health. Saw sign of a female too. maybe family group?

Evidenc

Unit #5

Florida Panther Annual Count

Date: 4-1-15 **Panther #** unknown

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M F Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: fresh

Location: one block S of Stewart and W. of Miller Ave. 1c

UTMs:

Habitat: Pine

Observer (s): Roy Nisbale

Observation: Male panther walking E on trail

Evidence:

Florida Panther Annual Count

Unit #5

Date: 4/1/2015 **Panther #**_____

Sign Found: (Tracks) Scat, (Scrape,) Kill, Live Panther, Photo, Other

Sex: (M) F Unknown

Number/Composition of Individuals: 1

Age/Condition of Sign: Fresh

Location: Belle Mead Close to intersection of Sable Palm & Miller Bl

UTMs: 17 R 0442793 2886285

Habitat: Cabbage Palm/palmetto

Observer (s): Belden

Observation: Male panther walking east on side road - made last night?

Evidence:

Unit # 6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 4-5-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP31
Habitat: Natural sawgrass clearing
Observer(s): Brian Kelly

Observation: Young male panther, possible kitten of FP#222
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit # 8
Cat

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date :_6APR2015 Panther #: FP236

Sign Found: Tracks & Scrapes
Sex: Male
Number / Composition of Individuals: at least one male
Age/Condition of Sign: over the last couple of days

Location:__Flint Pen & Bird Rookery of CREW

UTM'S:____ 432709/2913372
_____ 433467/2915937
_____ 434618/2910208
_____ 434591/2911828

Habitat:_Various: AD, Pines, Cypress and Hammocks

Observers(s):_Criffield

OBSERVATION:_Male tracks and scrapes in several areas

Mapping Area:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #8
Cont

Date : 7APR2015 Panther #:

Sign Found: Tracks

Sex: Female
Number / Composition of Individuals: 1
Age/Condition of Sign: overnight (on top of my ATV tracks)

Location: Vincent, N of Sand Rd in Flint Pen

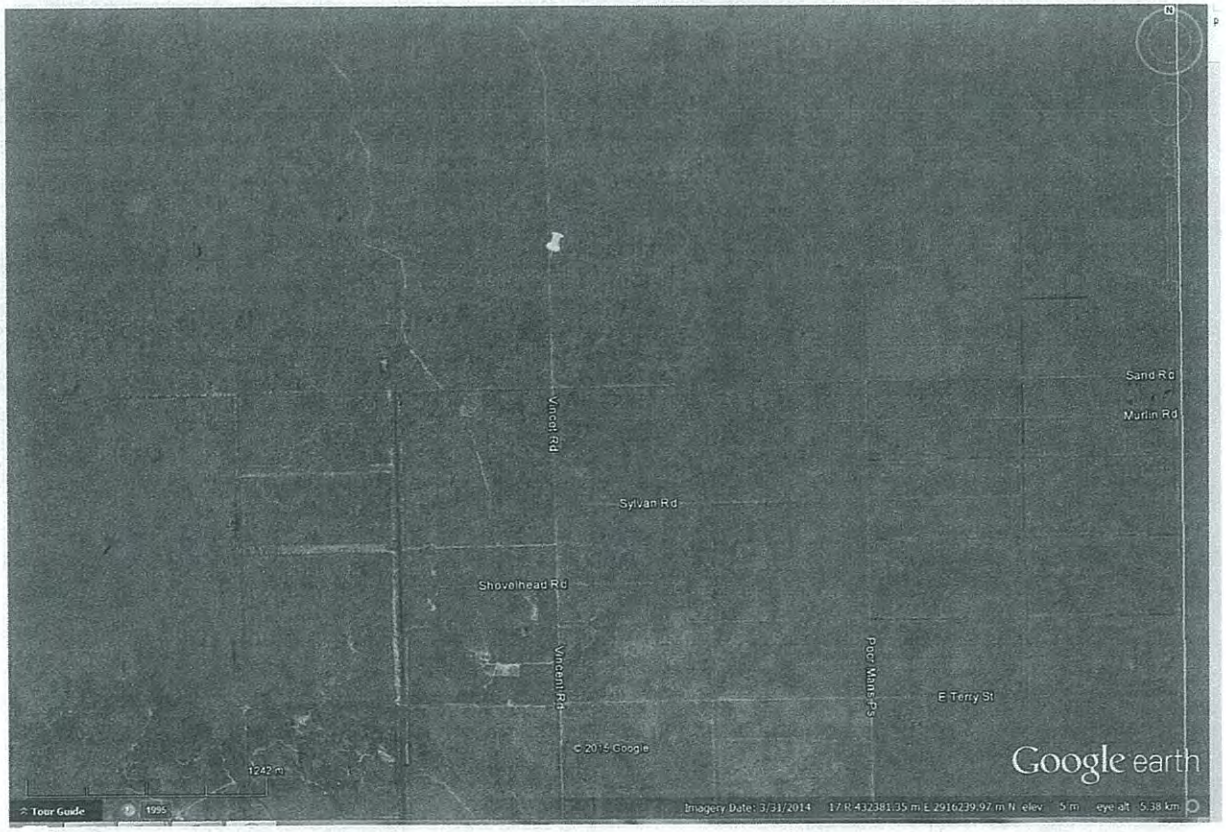
UTM'S: 431043/2916574

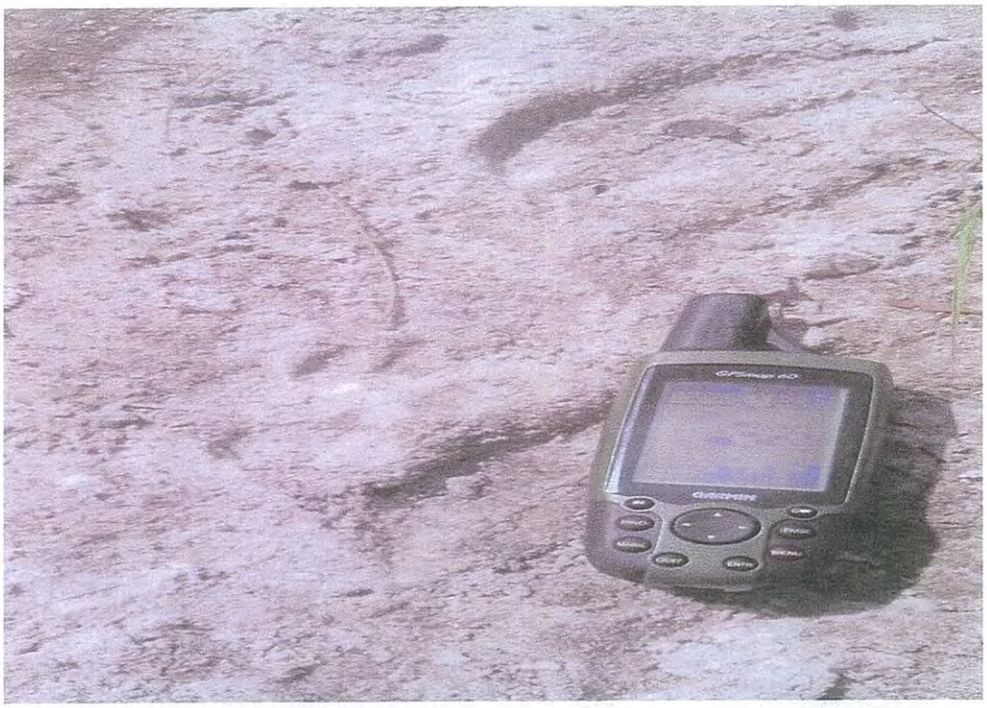
Habitat: mostly cypress, but with some pines

Observers(s): Criffield

OBSERVATION: single female headed S

Mapping Area:




GARMIN

0 unit #4

Florida Panther Annual Count

Date: 4/16/15 **Panther #** uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Bear Island / BICY

UTMs: 0474315 2897161

Habitat: Oak Hammock

Observer (s): Cougar + Roy McBride

Observation: Female panther w/ distinguishable marks on her ears. Nursing kittens and thin looking but in good health. looks to have a bit of age on her. small kink at the end of her tail.

Evidence:

Unit #4

Florida Panther Annual Count

Date: 4/17/15 **Panther #** unknown

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: > 24 hrs

Location: Bear Island

UTMs:

Habitat: Pine land / Oak hammock

Observer (s): Roy & Cougar McBride

Observation: Female panther walking into trail from the W.

Evidence

Florida Panther Annual Count

Date: 4-17-15 **Panther #** unknown

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M F Unknown

Number/Composition of Individuals: 2

Age/Condition of Sign: <24 hrs

Location: Bear Island

UTMs:

Habitat: Pine land

Observer (s): Roy & Cougar McBride

Observation: Male and female panther walking / breeding on trail.

Cont. →

Evidence

Unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 4-21-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Treed by hounds

Location: Turner River Road; Bicy

UTM'S:

Habitat: Pine

Observers(s): Roy and Cougar

OBSERVATION: Small, young male panther. Treed multiple times in this area.

Mapping

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 5-6-15 **Panther FP#: 222 with 2 juv**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Three
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP36
Habitat: Cabbage (Sabal palm) forest
Observer(s): Brian Kelly

Observation:
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #3

Florida Panther Annual Count

Date: 5/7/15 **Panther #** ? Failed Collar ? #320

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Tred by hounds

Location: upper Wagon Wheel Rd. BICY

UTMs:

Habitat: Pine / prairie / willow

Observer (s): Congan & Roy Nesarle

Observation: Female panther tred by hounds. Lean but healthy. maybe raising kittens? Identifiable mark on her right back leg. Some sort of scar w/ bleached fur around it.

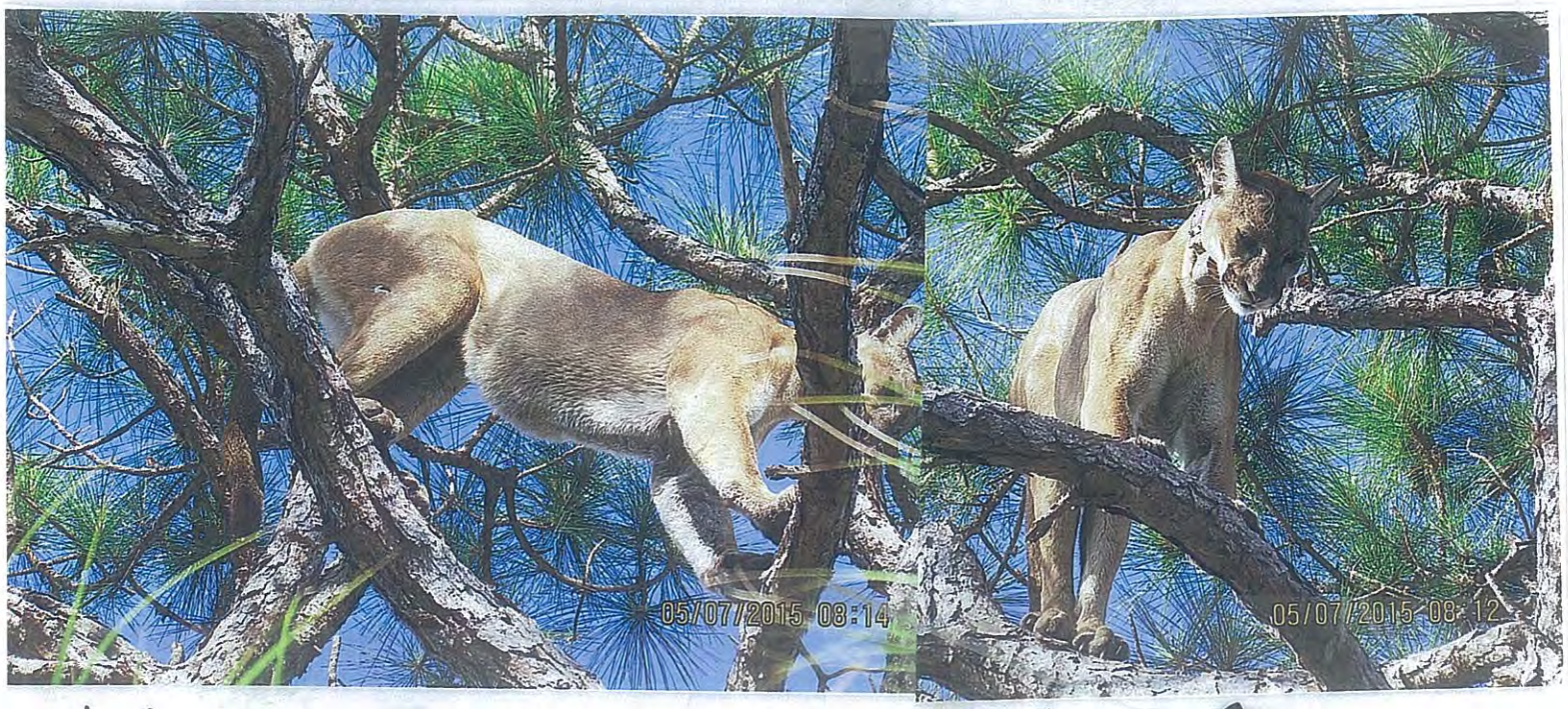


photo 1 ↖ photo 2 ↑

SAME Panther

Panel #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 5-21-15 Panther # (if kittens): uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other Trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam photo

Location: Big Cypress Seminole Indian Res.

UTM'S: 81.002 26.28478

Habitat: pine / cypress mix

Observers(s): Pauline Haas

OBSERVATION: Panther u/k sex walks up to trail cam. Right ear notched in several places down the outside of ear. Left ear has large split down the middle of ear.

Mappi

cont. →

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : cont 5/21/15 Panther # *(if kittens)*: _____

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: _____
Age/Condition of Sign: _____

Location: _____

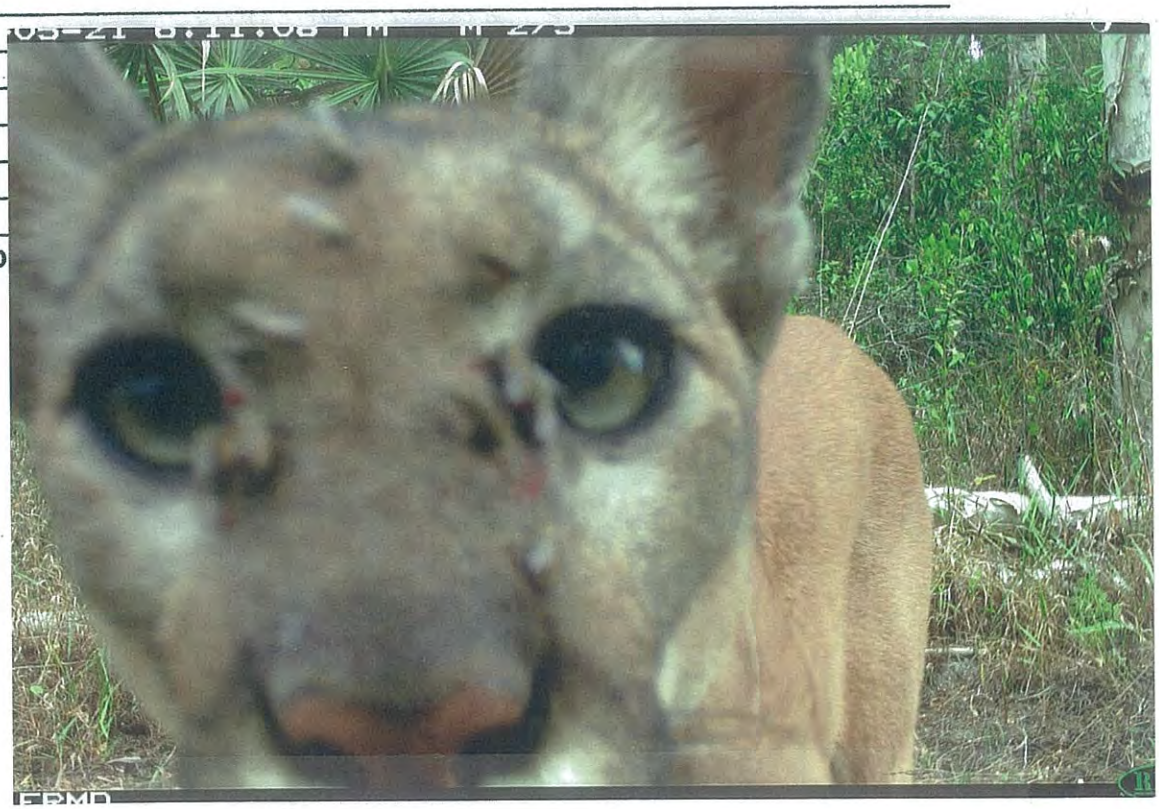
UTM'S: _____

Habitat: _____

Observers(s): _____

OBSERVATION: _____

Map



same panther

Cont.

Unc 7
#4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 5-24-15 Panther # (if kittens): uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other Trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: Big Cypress Seminole Indian Res.

UTM'S: 81.003115 26.31821

Habitat: canal bank / open road

Observers(s): Pauline Haas

OBSERVATION: Panther (looks like male) walking up the canal bank on a road. Unable to identify sex or individuality.

Ma

Cont.

Unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 6-7-15 Panther # (if kittens): uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other Trail cam
Sex: M (F) Unknown
Number / Composition of Individuals: 2
Age/Condition of Sign: Trail cam photo

Location: Big Cypress Seminole Indian Res

UTM'S: 81.0021 26.28478

Habitat: pine cypress mix

Observers(s): Pauline Haas

OBSERVATION: Two panters (one female) walk in front of Trail cam. Cont of Mom and Kitten from 1-24

Cont. →

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : con't 6/2/15 Panther # *(if kittens)*: _____

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: _____
Age/Condition of Sign: _____

Location: _____

UTM'S: _____

Habitat: _____

Observers(s): _____

OBSERVATION: _____

Same panther

Unit # 6

Florida Panther Annual Count

06/07/2015

Date: 2015 **Panther #** Uncolland

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Trail cam photo

Location: Corkscrew/Audubon

UTMs:

Habitat: Oak hammock

Observer (s): Ray + Conyan McCal

Observation: Female panther w/straight, skinny, ratty tail captured multiple times on multiple cameras ~~throughout~~ throughout the year

Evidence

Unit #8

Florida Panther Annual Count

Date: 06/07/2015 Panther # uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live Panther, Photo, Other

Sex: M (F) Unknown

Number/Composition of Individuals: one

Age/Condition of Sign: Trail cam photo

Location: Audubon / Corkscrew

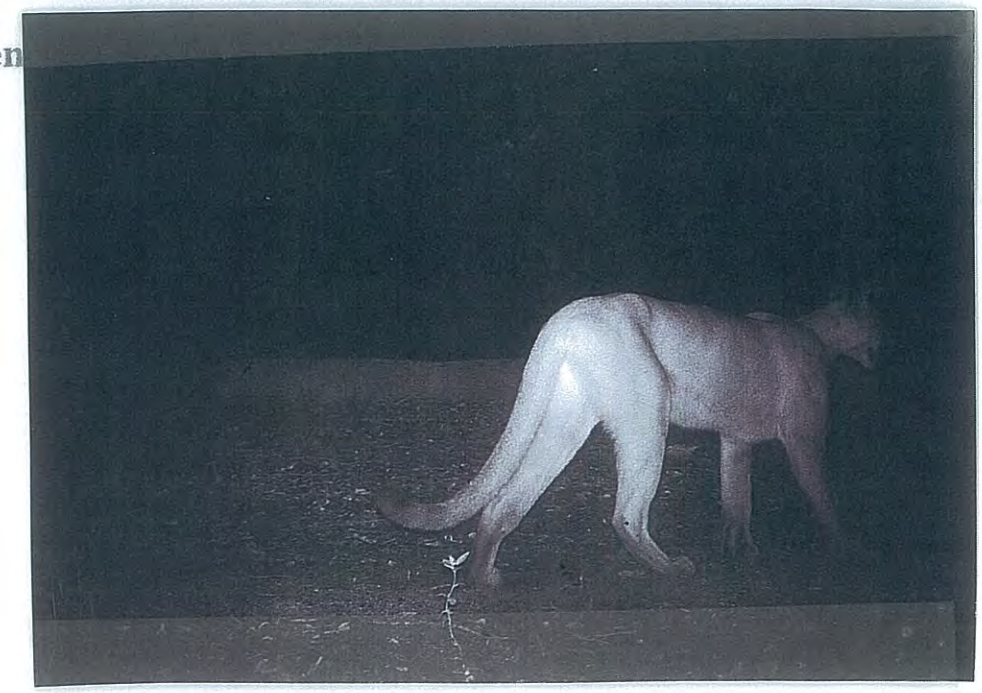
UTMs:

Habitat: Oak hammock

Observer (s): Roy & Conyn Mitchell

Observation: Female panther w/full, thick tail photographed on multiple cameras on multiple occasions throughout the year.

Eviden



Unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 6-8-15 **Panther FP#: 221**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress National Preserve
UTM'S: 469572 2867712
Habitat: Pine Island
Observer(s): Annette Johnson, NPS

Observation:
Mapping Area / Photo Evidence:

• Unc7 #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 6-7-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 465602 2888303
Habitat: Hardwood hammock
Observer(s): Annette Johnson

Observation: Uncollared male panther makes a urine marker in front of a trail camera in BICY near SR 29.
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unk #3

Date: 6 - 9 - 15 Panther FP#: un-collared kittens

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: 2
Age / Condition of Sign: Treed by hounds

Location: Deep Lake unit BICY
UTM'S: 0469069 2879849
Habitat: Laurel oak / Cypress mix
Observer(s): Cougar McBride

Observation: 2 young panthers with female suspected to be #220. Only treed one kitten and was unable to determine sex. Spotted the other kitten as I was walking in and managed to get a picture of its face.
Mapping Area / Photo Evidence:

Data sheet continued----→

2 jaws

Rancher's Supply Field Data

Time Start Tuesday

Time Stop unit # 3

Date 06/09/15 Observer Cougar Site DEEP Lake

Activity: hunting ___ scouting ___ exercising hounds ✓ other ___

Sign found: panther 2 panthers Treed by hounds bear ___ coyote ___

Capture: bobcat treed ___ bobcat bayed ___ panther treed: collared ___ uncollared ___ failed collar ___

ATCP ___ ATUP ___ handled ___ transponder ___ Panther capture: sex ___ age ___

weight ___ kink ___ cowlick ___ tree type ___ height in tree ___ jumped ___ pre-dart

___ post-dart ___ # of times jumped ___ Kitten capture: guided by telemetry ___ # of kittens ___

sex age GPS: 17R 0469069 UTM 2879849

Notes: Rx hounds in deep lake off Buggy treed 12 mos old kitten and photographed a second kitten walking to the tree could not determine gender of either kittens. probably same panther off # 220 caught on 05 7/15

unit #8

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

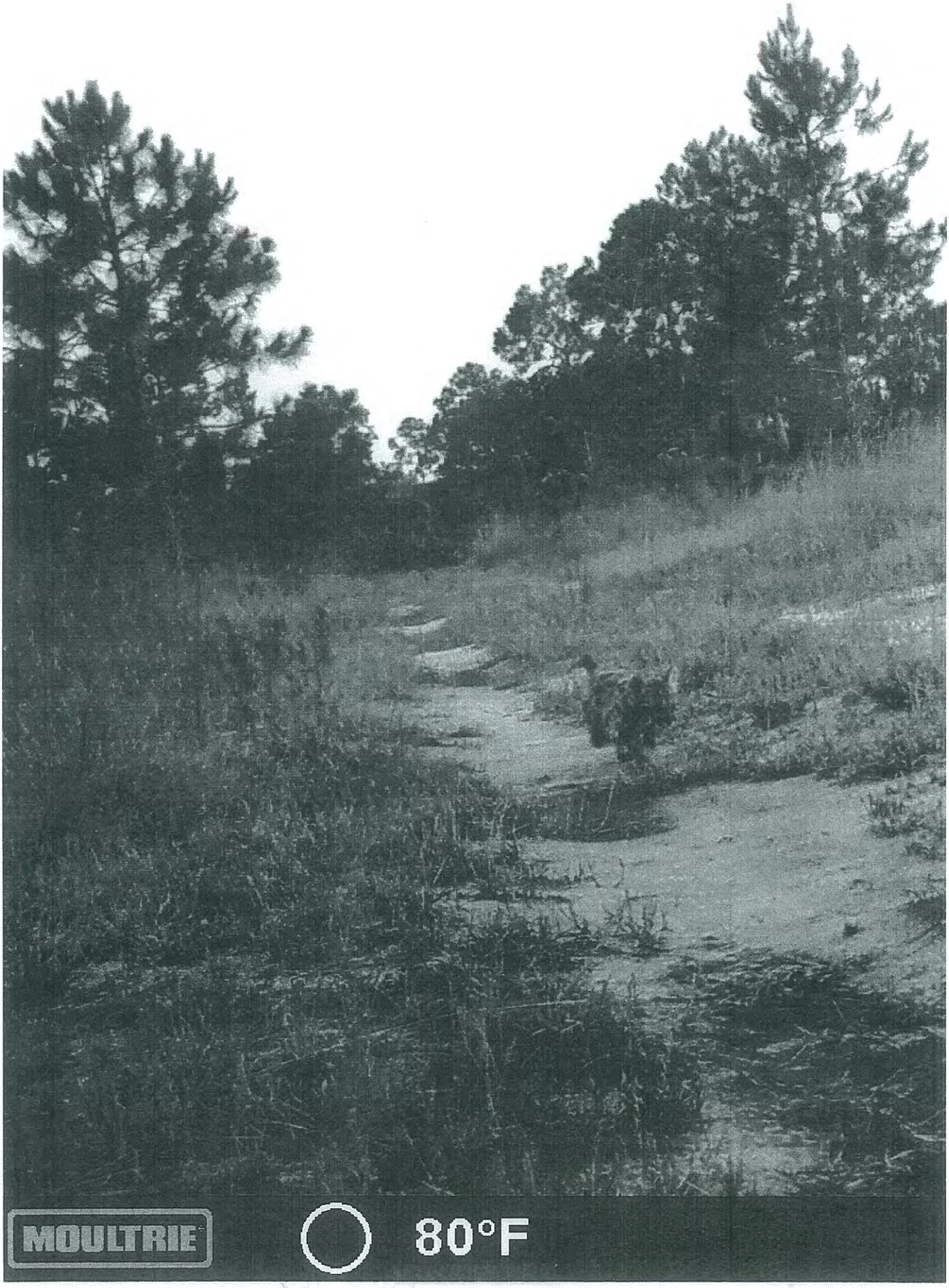
Date: 6-15-15 **Panther FP#:** Uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Three – 2 kittens, one female
Age / Condition of Sign: Trail cam

Location: Panther Island Mitigation Bank
UTM'S:
Habitat: Pine woods and scrub brush
Observer(s): Shawn Clem

Observation: Female Panther walked by trail camera. The family wasn't together but was moving in the same direction.
Photo of kitten attached. No picture with the family group together.
Mapping Area / Photo Evidence:

Photo evidence on back----------→


MOULTRIE
80°F

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #3

Date: 6-30-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: _Trail Cam Photo

Location: Big Cypress NP
UTM'S: 471642 2865272
Habitat: Pine / hardwood shrub
Observer(s): Annette Johnson, NPS

Observation: Panther, sex u/k, walks towards and by a trail camera.
Mapping Area / Photo Evidence:

Set - 4th
Seen - 5th

Unit #8

Rancher's Supply Field Data

Time Start 07/06/15 Time Stop Unit 8

Date Monday Observer Roy & Cougar Site TRR - Corkscrew

Activity: hunting ___ scouting ___ exercising hounds ✓ other _____

Sign found: panther _____ bear _____ coyote _____

Capture: bobcat treed ___ bobcat bayed ___ panther treed: collared ___ uncollared ___ failed collar ___

ATCP ___ ATUP ___ handled _____ transponder ___ Panther capture: sex ___ age ___

weight _____ kink ___ cowlick ___ tree type _____ height in tree ___ jumped ___ pre-dart

___ post-dart # of times jumped Kitten capture: guided by telemetry # of kittens

sex___

Photo/

✓

checked cameras in P.M. @ Corkscrew.

this same male photographed on various sites and mutiple occasions throughout the year.

Rancher's Supply Field Data

Time Start Tuesday Time Stop unit #3

Date 07/07/15 Observer Ray & Cougar Site Naples / Ray Cougar Bicy

Activity: hunting ___ scouting ___ exercising hounds ✓ other ___

Sign found: panther Treed 2 panthers bear ___ coyote ___

Capture: bobcat treed ___ bobcat bayed ___ panther treed: collared ___ uncollared ___ failed collar ___

ATCP ___ ATUP ___ handled ___ transponder ___ Panther capture: sex ___ age ___

weight ___ kink ___ cowlick ___ tree type ___ height in tree ___ jumped ___ pre-dart

post dart ___ # of times jumped ___ Kitten capture: guided by telemetry ___ # of kittens ___

♀ #220 →

uncollared ♂ Male ←

Notes:

Both panthers in photo seperate Trees

Rancher's Supply Field Data

Time Start ~~[illegible]~~ Time Stop Unit 3

Date_____ Observer Roy & Cougar Site__ TRR

Activity: hunting ___ scouting ____ exercising hounds ____ other _____

Sign found: panther _____ bear _____ coyote _____

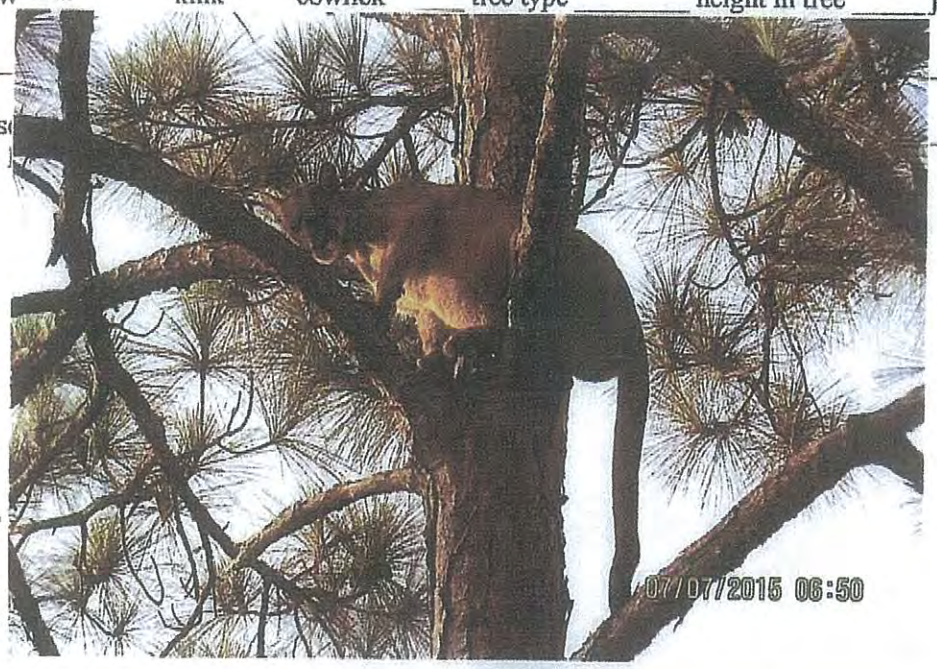
Capture: bobcat treed ____ bobcat bayed ____ panther treed: collared ___ uncollared ___ failed collar ___

ATCP ___ ATUP ____ handled _____ transponder ____ Panther capture: sex ____ age _____

weight kink cowlick ____ tree type _____ height in tree _____ jumped ___ pre-dart

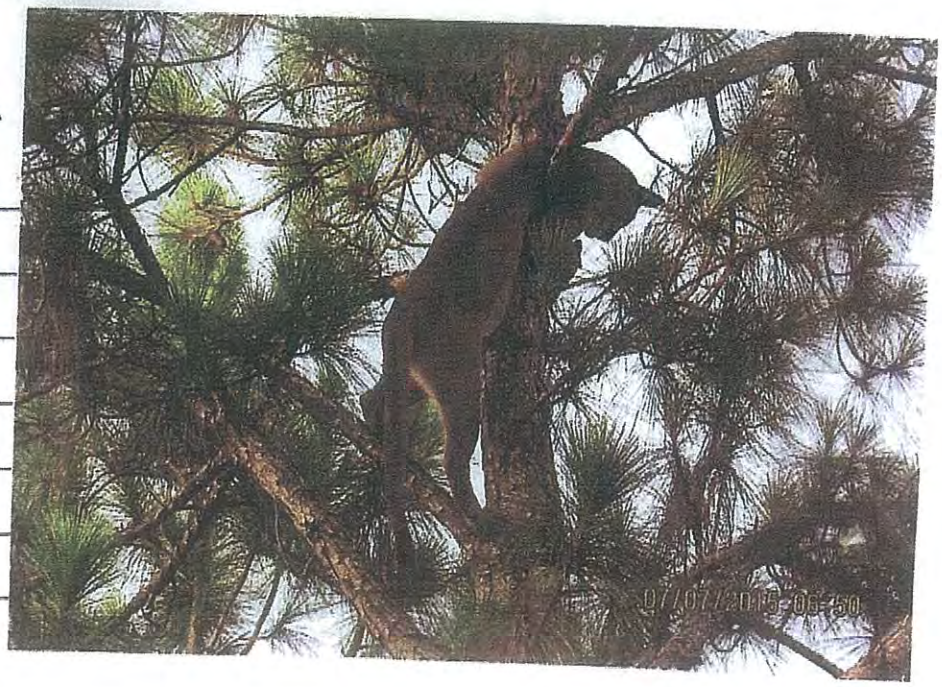
_____ # of kittens____

s_____



collered
♀ #220

Notes:_____



Unc #8

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 7-14-15 Panther FP#

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam Photo
Sex: M F Unknown
Number / Composition of Individuals: 2
Age / Condition of Sign: Trail Cam Photo

Location: Wildlife underpass at Alico Rd. and C.R. 850
UTM'S:
Habitat: Pine / Cypress Mix
Observer(s): Ricky Pires and The Panther Posse

Observation: Female Panther # with an uncollared male panther. Direction of travel is unable to be determined but in the last photo the female was seen heading South towards Flynt Pen Strand.

Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #3 Cont

Date: 7-16-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: _Trail Cam Photo

Location: Big Cypress NP
UTM'S: 471306 2865405
Habitat: Cypress/Pine mix
Observer(s): Annette Johnson, NPS

Observation: Uncollared male panther using facial glands to scent mark the same cypress sapling the other male did on 3-11-15.
Mapping Area / Photo Evidence:

Unit #5

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 7-20-15 Panther FP#:

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam Photo
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Bonita Bay
UTM'S:
Habitat: Pine / Cabbage mix
Observer(s): Ricky Pires and The Panther Posse

Observation: Large male panther with skin showing through his hair. This Panther may have Mange.
Mapping Area / Photo Evidence:

Unit #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 7-25-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age / Condition of Sign: Trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B16
Habitat: Pine/ palmetto mix
Observer(s): Brian Kelly

Observation: Unmarked male panther with a white bleached spot on his left front shoulder.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 7-25-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 465 693 2880648
Habitat: Hardwood hammock
Observer(s): Annette Johnson, NPS

Observation: Uncollared female panther walks by a trail camera in the Deep lake unit of BICY.
Mapping Area / Photo Evidence:

Cat + Mark #4

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 8-3-15 Panther # (if kittens): Collared #234

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Treed by hounds

Location: Add Lands

UTM'S: 0493772 2895564

Habitat: oak hammock

Observers(s): Roy + Cougar McBride

OBSERVATION: Collared male panther #
Very old and drawn down. Tattered ears.

Mappi

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #4

Date: 8-4-15

Panther # (if kittens): Uncollared / Ear Tags #216

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other

Sex: (M) F Unknown

Number / Composition of Individuals: one

Age/Condition of Sign: Treed by hounds

Location: Add Lands

UTM'S: 0489373 2899432

Habitat: Brazilian Pepper / oak hammock / cypress

Observers(s): Ray and Cougar McBride

OBSERVATION: Uncollared male panther w/ Red ear tags in both ears. Panther in good health, about 120 lbs.

Photos cont. →

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date :_ Panther # (if kittens):

Sign Fo
Sex: M
Number
Age/Cor

Locatio

UTM'S:_

Habitat:_

Observe

OBSERV

Map

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unk #3

Date: 8-6-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Two
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 465693 2880648
Habitat: Hardwood hammock
Observer(s): Annette Johnson, NPS

Observation: Uncollared female panther walks by a trail camera with her juvenile panther accompanying her.
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Check #4

Date: 8-8-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B31
Habitat: Hardwood hammock
Observer(s): Brian Kelly

Observation: Uncollared female panther walks by trail cam in Bear Island, BICY
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #3

Date: 8-10-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 471306 2865405
Habitat: Cypress/Pine mix
Observer(s): Annette Johnson, NPS

Observation: Confirmation of uncollared male that scent marked cypress sapling on 3-11. Same panther, same sapling, same method of communication.
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 8-10-15 **Panther FP#:** 240 ♀

Sign Found: Tracks Scat Scrape Kill Live Panther Other: ISA
Sex: M (F) Unknown
Number / Composition of Individuals: 3
Age / Condition of Sign: >24 hrs.

Location: Deep Lake BICY
UTM'S:
Habitat: Cypress prairie/pine mix
Observer(s): Roy, Congar, Deb J., Annette J., John K.

Observation: female panther killed by male panther.
~~Mapping/Aerial Photo Evidence:~~
ISA is cause of female death. Only a few bones from the kittens were recovered. Same male probably killed kittens also. Carcass was found in a large prairie in the Deep lake unit in Big Cypress Natl. Preserve.

monday CONT'

CONT

Rancher's Supply Field Data

BICY

Time Start

Time Stop unit #4 unit #3

Date 08/10/15 Observer Roy & Cooper Site Add lands

Activity: hunting scouting exercising hounds other

Sign found: panther

Capture: bobcat treed

ATCP ___ ATUP

weight _____ kink rt

post-dart ____ #

sex_____ age

Photo/Map:

9-240

Notes:

Killed by panther - Also Kitten's missing but probably killed by same Male

00 Unit #7

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 8-16-15 **Panther FP#:** Uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: Two
Age / Condition of Sign: Personal observation w/ photos

Location: Felda, FL.
UTM'S:
Habitat: Orange Groves
Observer(s): Donna McMurrer

Observation: Panthers were heard vocalizing while courting and mating over some time. I was able to photograph them in the orange grove soon after looking for them.
Mapping Area / Photo Evidence:

#3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 8-17-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: _Trail Cam Photo

Location: Big Cypress National Preserve
UTM'S: 469572 2867712
Habitat: Pine Island
Observer(s): Annette Johnson, NPS

Observation: Uncollared male panther with clean, unmarked ears. Very heathy and robust.
Mapping Area / Photo Evidence:

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 8-18-15 Panther FP#: Uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam Photo
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Wildlife Underpass at S.R. 29 and Pistol Pond in the Refuge
UTM'S:
Habitat: Cypress Swamp
Observer(s): Ricky Pires and The Panther Posse

Observation: Male panther stopped to nap in the shade of the underpass. He was walking into the Refuge from Bear Island. It has heard something and is on high alert.
Mapping Area / Photo Evidence:

Unit 7 #8

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 8-19-15 Panther FP#: Uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam Photo
Sex: M F Unknown
Number / Composition of Individuals: Two
Age / Condition of Sign: Trail Cam Photo

Location: Wildlife Underpass on I-75 at Mile Marker 83
UTM'S:
Habitat: Pne / Cypress mix
Observer(s): Ricky Pires and The Panther Posse

Observation: Male and female panther traveling out of the Refuge and towards Picayune together.
Mapping Area / Photo Evidence:

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 9-6-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: trail cam
Sex: M F Unknown
Number / Composition of Individuals: three
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP51
Habitat: Pine woods
Observer(s): Brian Kelly

Observation: Female panther with two juveniles of unknown sex walks by trail camera.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6

Date: 9-10-15 Panther FP#: Uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam Photo
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Wildlife Underpass at S.R. 29 and Pistol Pond in the Refuge
UTM'S:
Habitat: Cypress swamp
Observer(s): Ricky Pires and The Panther Posse

Observation: Female panther walking East into Bear Island from the Refuge. This panther does not have a broken tail like the other female on the Refuge.
Mapping Area / Photo Evidence:

Photo # 6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 9/15/15 Panther # *(if kittens)*: uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Treed by hounds

Location: FPNWR

UTM'S: 0454452 2893104

Habitat: Cypress / cabbage mix

Observers(s): Roy & Congan McBride

OBSERVATION: Adult female panther (uncollared) treed by hounds. No distinguishing marks. Has notches in ears but has a slight kink in the tip of tail.

Mappin

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 9-15-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Fresh/ Personal encounter

Location: GGE
UTM'S: Not provided / private residence
Habitat: Pine woods surrounded home
Observer(s): Lisa Price

Observation: Photo of female panther sitting on front porch.
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #7

Date: 9-20-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail camera photo

Location: SR 80 wildlife crosing
UTM'S: 469777 2960830
Habitat: Oak hammock / Pine woods
Observer(s): Jen Korn

Observation: Male panther with beat up head and face walked by trail cam
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

unit #3

Date: 9-21-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 465693 2880648
Habitat: Hardwood hammock
Observer(s): Annette Johnson, NPS

Observation: Uncollared male panther walks by a trail cam in the Dep Lake unit of BICY.
Mapping Area / Photo Evidence:

Unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 9-24-15 Panther # (if kittens): Uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other

Sex: (F) Unknown

Number / Composition of Individuals: One

Age/Condition of Sign: Treed by hounds

Location: Turner River Rd. BICY

UTM'S:

Habitat: Cypress swamp

Observers(s): Congar McBride Roy McBride

OBSERVATION: female panther treed by hounds. Confirmation of female tracks seen in area.

Mappin

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6

Date: 9-25-15 **Panther FP#:** 224

Sign Found: Tracks Scat Scrape Kill Live Panther Other: VHF radio signal
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: >24 hrs

Location: GGE
UTM'S:
Habitat: Pine woods / neighborhood
Observer(s): M. Lotz

Observation: FP #224 / Telemetry signal from radio collar was heard in close vicinity of depredation
Mapping Area / Photo Evidence:
No Photo. Panthers telemetry collar signal was present at the scene of depredation

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #3

Date: 9-26-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: _Trail Cam Photo

Location: Big Cypress NP
UTM'S: 507481 2871728
Habitat: Pine island
Observer(s): Annette Johnson, NPS

Observation: Uncollared female panther making a urine marker.
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

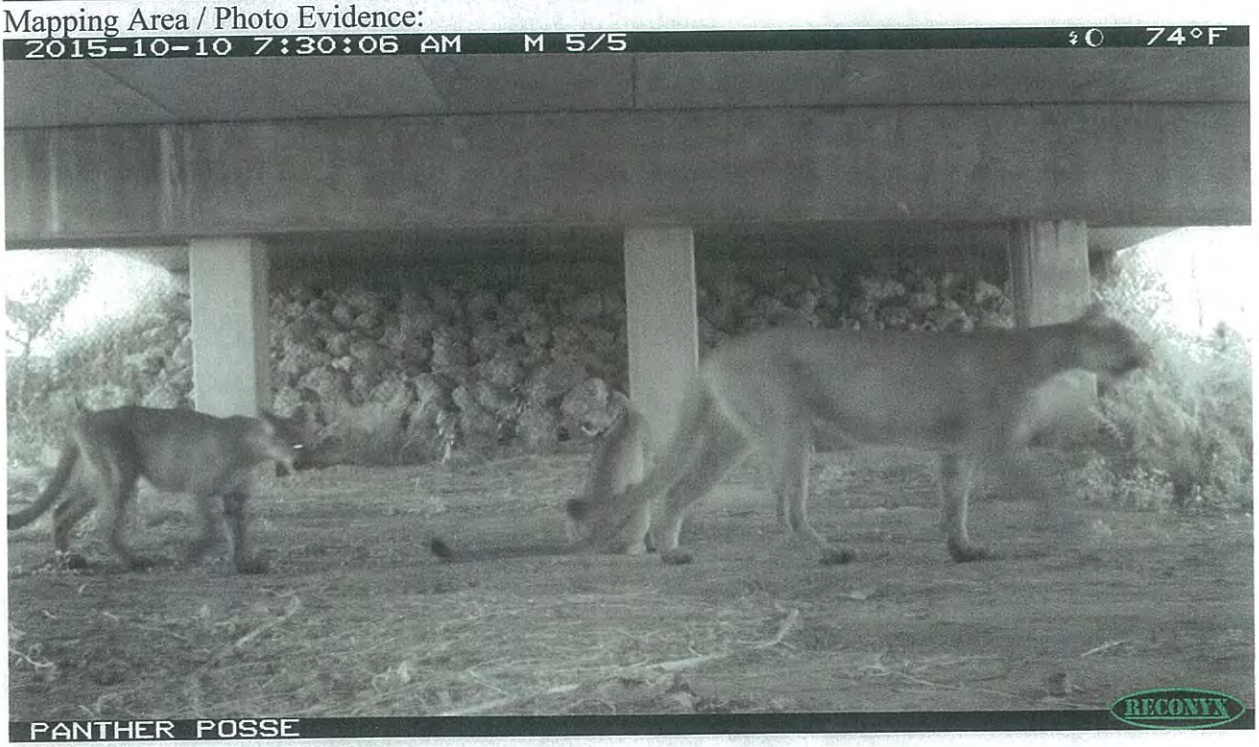
Unc # 5 + 6

Date: 10-10-15 Panther FP#: Uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam Photo
Sex: M F Unknown
Number / Composition of Individuals: 3, One adult female and 2 juveniles.
Age / Condition of Sign: Trail Cam Photo

Location: Wildlife underpass on I-75, Mile Marker 83
UTM'S:
Habitat: Pine / Cypress mix
Observer(s): Ricky Pires and The Panther Posse

Observation: Uncollared adult female panther walking North into the Refuge from Picayune State Forest. She has 2 juvenile panthers with her.
Mapping Area / Photo Evidence:



Cont.

Unit #6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 10/12/15 Panther # (if kittens): uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: One
Age/Condition of Sign: Treed by hounds

Location: FPNWR

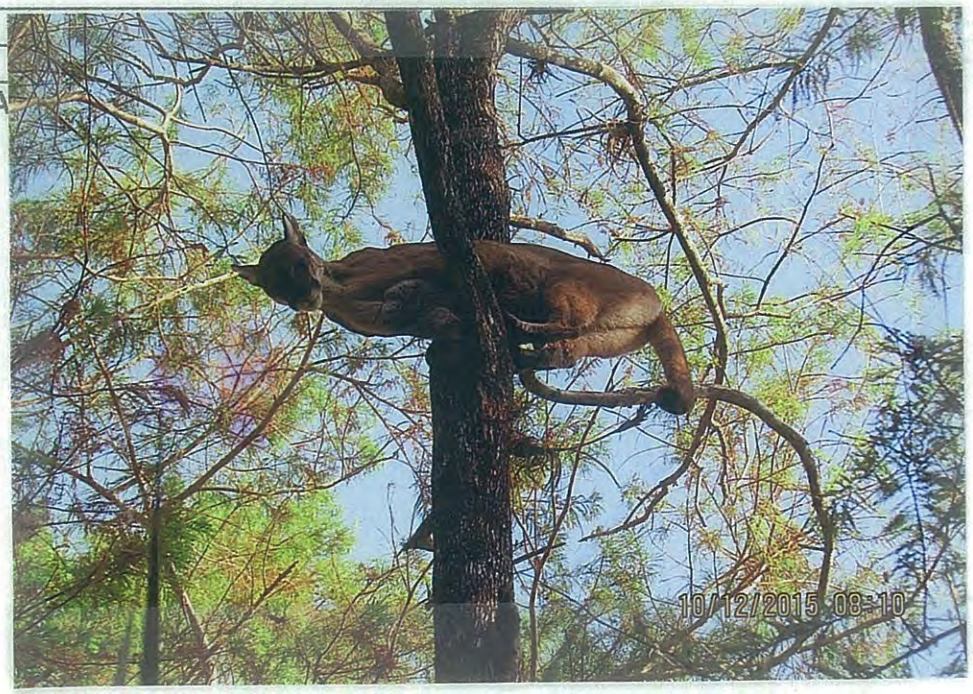
UTM'S:

Habitat: Cypress Swamp / Cabbage Forest

Observers(s): Roy & Congar

OBSERVATION: Female panther treed by hounds. Same female treed on 9-15-15. ID by notches in ear.

Mapping A



Sat - 10
Sun - 11

Rancher's Supply Field Data

Time Start Monday Time Stop unit # 6

Date 10/12/15 Observer Roy & Cougar Site FPNWR

Activity: hunting ___ scouting ✓ exercising hounds ✓ other _____

Sign found: panther Treed by hounds bear _____ coyote _____

Capture: bobcat treed ✓ bobcat bayed ___ panther treed: collared ___ uncollared ✓ failed collar ___

ATCP ___ ATUP ___ handled 0 transponder ___ Panther capture: sex ♀ age Adult

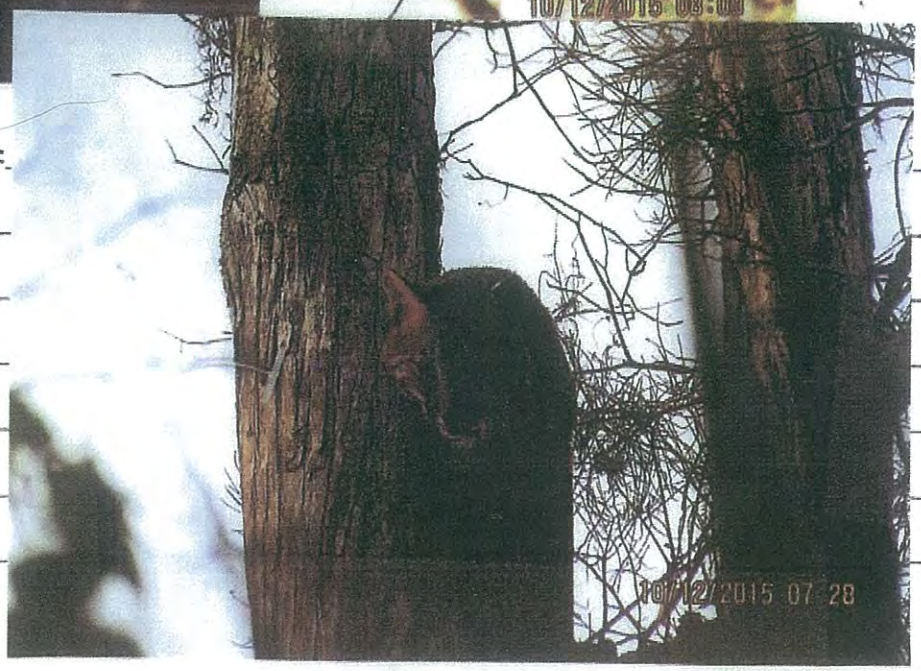
weight _____ kink ___ cowlick ___ tree type cypress height in tree 30' jumped 0 pre-dart

___ post-dart ___ # of times jumped ___ Kitten capture: guided by telemetry ___ # of kittens ___

sex _____ age _____ GPS: 17R _____ UTM _____

This panther was treed Sept. 9th - 2015 @ FPNWR about 1/2 mi east of second tree.

Notes:



Bobcat ←

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 10-16-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: (M) F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: N. Addition lands, BICY
UTM'S: Camera A-35
Habitat: Pine / cabbage mix
Observer(s): Brian Kelly

Observation: Male panther walks by trail camera. This panther has the top of his right ear cut off
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6 Cont

Date: 10-16-15 **Panther FP#: 222**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Three
Age / Condition of Sign: Trail cam photo

Location: FPNWR
UTM'S: Camera FP52
Habitat: Sabal palm forest
Observer(s): Brian Kelly

Observation: Collared female #222 with her two grown kittens walks by a trail camera in the Refuge.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit # 6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 10-20-15 Panther # *(if kittens)*: _____

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: 3; mom w/ 2 juvs
Age/Condition of Sign: Treed by hounds

Location: FPNWR

UTM'S: _____

Habitat: Oak hammock

Observers(s): Roy + Congor

OBSERVATION: Female panther w/ 2 juvs treed in FPNWR. Both juvs were not observed. only one was treed. Tracks later showed the size (number) of family members

Mapping

Unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 10-22-15 **Panther FP#: 192**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: Three
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 507481 2871728
Habitat: Pine island
Observer(s): Annette Johnson, NPS

Observation: FP #192 and her two juveniles walk together past a trail camera in Racoon Point.
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6

Date: 10-28-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: trail cam photo
Sex: M F Unknown
Number / Composition of Individuals: Three
Age / Condition of Sign: Trail cam photo

Location: GGE
UTM'S: 433397 2898095
Habitat: Pine woods/ Oak Hammock
Observer(s): Mark Lotz

Observation: Female and two juvenile panthers attempt to get to a previously cached kill
Mapping Area / Photo Evidence:

Unit #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

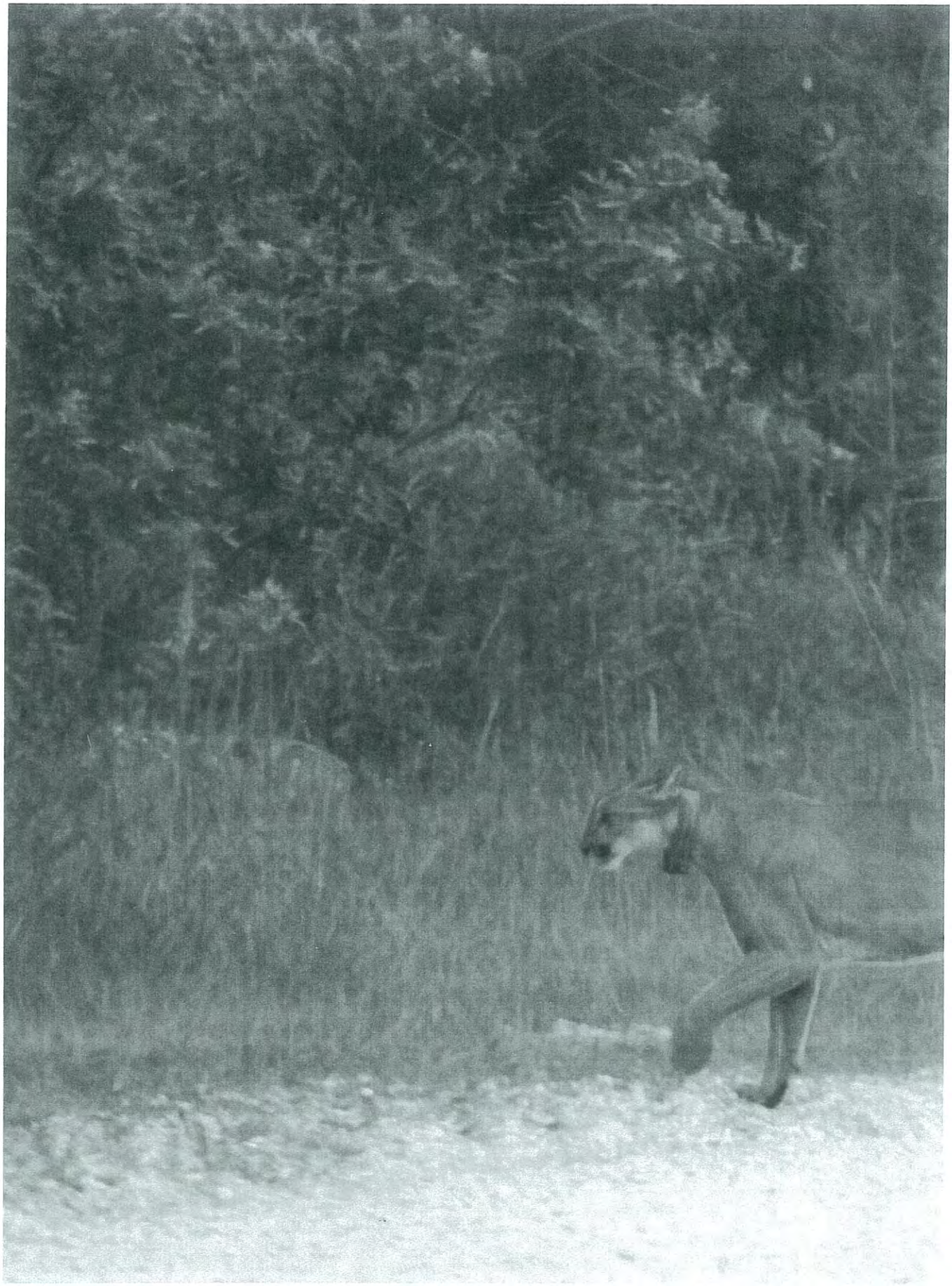
Date: 10-28-15 **Panther FP#:** 220

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Photographed by witness

Location: BCNP north of the Turner canoe launch on Turner River Road
UTM'S: 25.868 -81.021
Habitat: Cypress swamp
Observer(s): Denise Shreve

Observation: going south on 41 Past Everglades city around the Turner Canoe launch visitors center with boardwalk, we were down that gravel road about 3 miles when we spotted Panther which looked to be a female that was collared.
Mapping Area / Photo Evidence:

Photo evidence on back ----------→



Next #3

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 11-2-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 510057 2873874
Habitat: Cypress/ hardwood shrub
Observer(s): Annette Johnson, NPS

Observation: Uncollared male panther walks by trail camera just an hour after a different panther walked by. Racoon Point
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #3

Date: 11-2-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: _Trail Cam Photo

Location: Big Cypress NP
UTM'S: 510057 2873874
Habitat: Cypress /hardwood shrub
Observer(s): Annette Johnson, NPS

Observation: Uncollared panther walks by trail camera in Racoon Point.
Mapping Area / Photo Evidence:

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

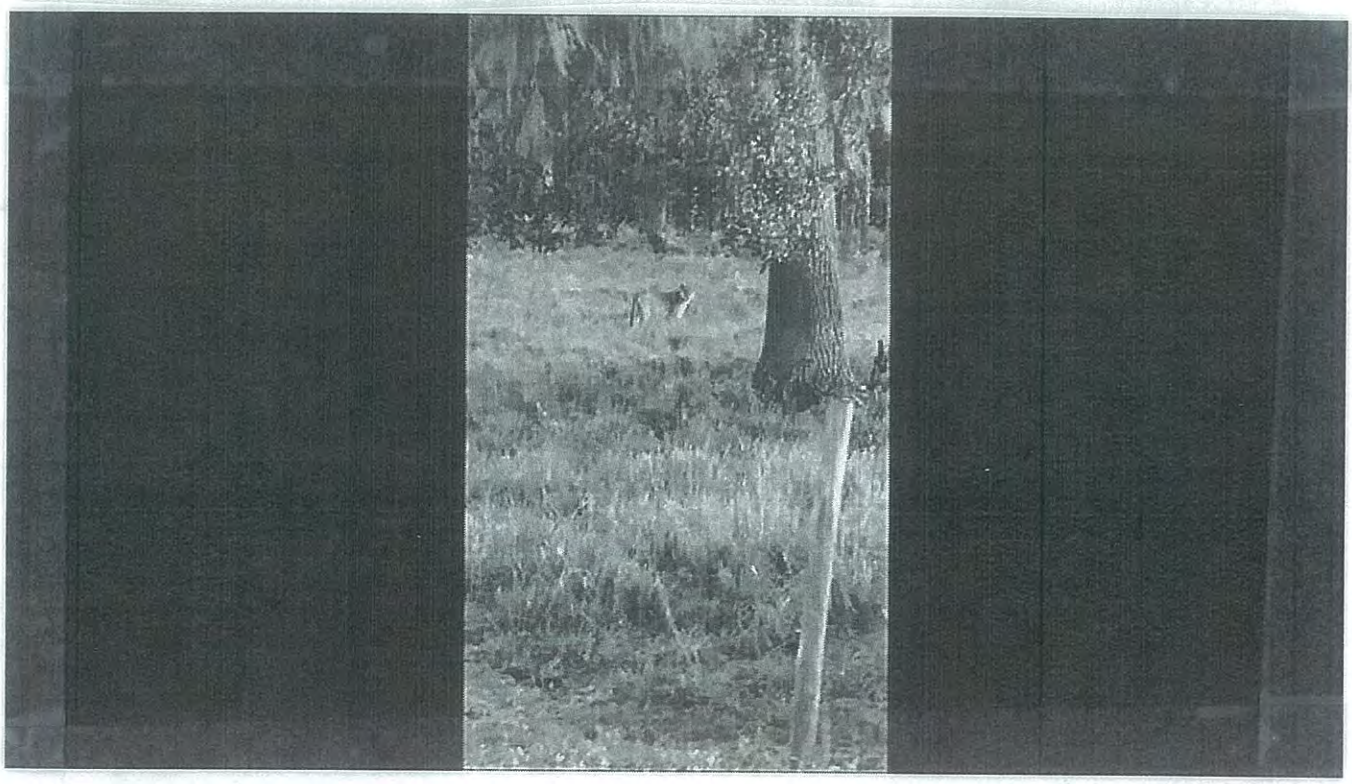
Unc #4

Date: 11-18-15 **Panther FP#:** Uncollared

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Personal observation w/ photo

Location: 1 mi. E. of Immokalee Airport
UTM'S: ~~No UTMS provided~~ — lat: 26.419 Long: -81.3871
Habitat: Natural prairie and pine woods
Observer(s): Shawn Keyte

Observation: Crossed 846 from the north side to the south. Never ran, just walked slowly. Time was 1745.
Mapping Area / Photo Evidence:



Unit #9

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 11-22-15 **Panther FP#:** 232

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail Cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Private Landowner / Location withheld
UTM'S: Lat. 27.129 Long. -80.420
Habitat: Oak hammock/ Pine woods
Observer(s): Sam Mullinax

Observation: Collared male panther #232 photographed by trail camera at a deer feeder
Mapping Area / Photo Evidence:

Unit #7

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 11-24-15 **Panther FP#:** Uncollared

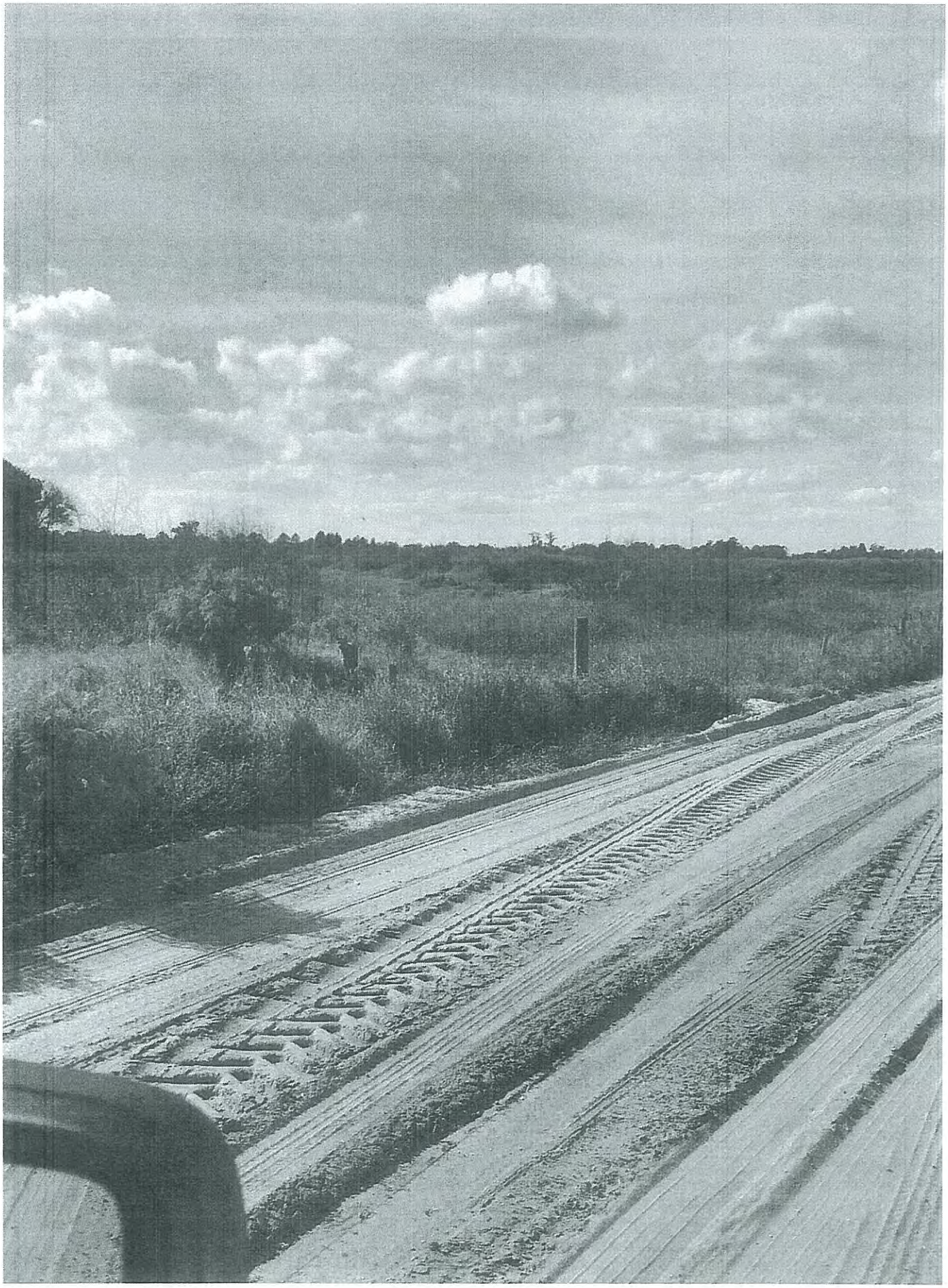
Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: 3 / Female with 2 juv.
Age / Condition of Sign: Personal observation w/ photo

Location: La Belle, FL.
UTM'S: None Provided
Habitat: Fallow farm fields / Sand roadways
Observer(s): Amanda (last name not provided)

Observation: Observed a female panther and two juvenile panthers crossing a sandy road near La Belle, Fl.
(picture of female standing in grass was only printable photo)
Mapping Area / Photo Evidence:

Photo evidence taped to back ----------→

2740



UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 11-27-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: one
Age / Condition of Sign: Trail cam photo

Location: Bear Island, BICY
UTM'S: Camera B36
Habitat: Hardwood hammock
Observer(s): Brian Kelly

Observation: Uncollared female panther with large wound on front left arm. Doesn't look bad and panther is in great health.
Mapping Area / Photo Evidence:

Photo evidence withheld by UGA pending completion of their deer study

Unit
6

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date : 12-11-15

Panther # *(if kittens)*: 1 collared ♀
1 uncollared ♂

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other

Sex: M F Unknown

Number / Composition of Individuals: 2

Age/Condition of Sign: Trail cam

Location: I-75 underpass (Rock Island FP NWR)

UTM'S:

Habitat: Underpass

Observers(s): R. Pires, Panther Posse

OBSERVATION: Collared female # 195 w/male
Female is showing large wound on left flank.

Map

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6

Date: 12-12-15 **Panther FP#: uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other:
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: >24 hrs

Location: GGE
UTM'S: 440581 2900400
Habitat: Pine woods surrounding home
Observer(s): Arturo Freyre

Observation: Male panther killed two sheep and cached them, never returned but left tracks that were identifiable as to the sex of the cat.
Mapping Area / Photo Evidence:

Cont.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6

Date: 12-12-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M (F) Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: I-75 underpass FPNWR

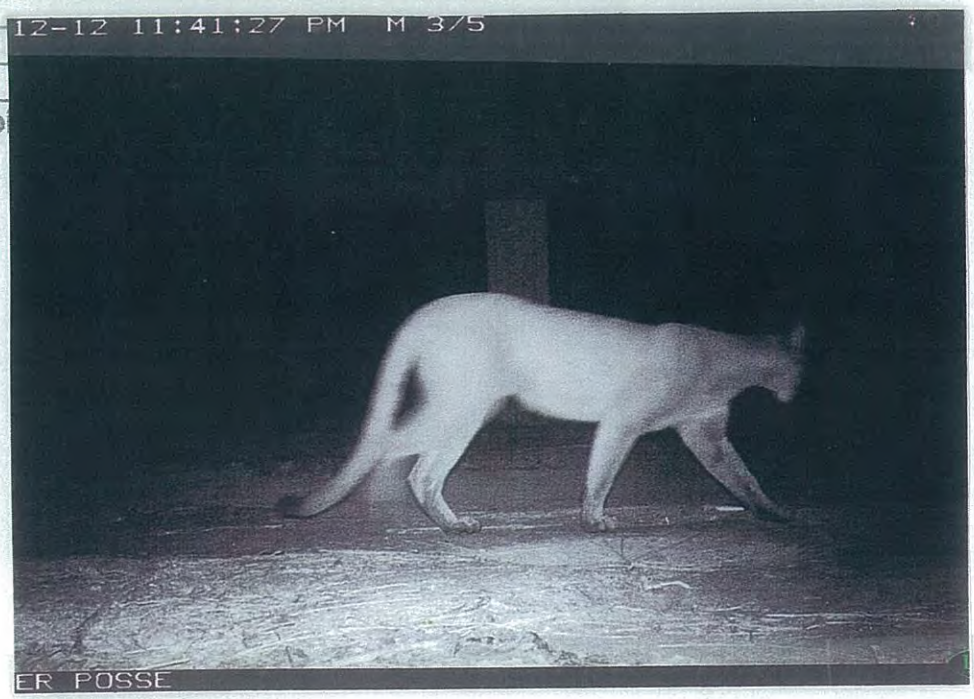
UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Cont. of female panther walking under I-75 into the Refuge.

Mapp



UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Panel #3

Date: 12-18-15 **Panther FP#: Uncollared**

Sign Found: Tracks Scat Scrape Kill Live Panther Other: Trail cam
Sex: M F Unknown
Number / Composition of Individuals: One
Age / Condition of Sign: Trail Cam Photo

Location: Big Cypress NP
UTM'S: 465602 2888303
Habitat: Hardwood hammock
Observer(s): Annette Johnson, NPS

Observation: A different uncollared male panther ID'd by his tattered left ear, walks by a trail camera in BICY near SR 29.
Mapping Area / Photo Evidence:

Cont.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Unit #6

Date : 12-20-15 Panther # *(if kittens)*:

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Location: I-75 underpass

UTM'S:

Habitat: underpass

Observers(s): R. Pires

OBSERVATION: Male panther walking N. under the I-75 bridge. Conf of male at the SR 29 underpass on 1-03. Id'd by cowlick on back and tail is straight

Mappi

Cont.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 12-23-15

Panther # *(if kittens)*: 195 ♀

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other

Sex: M (F) Unknown

Number / Composition of Individuals: one

Age/Condition of Sign: Trail cam

Print #6 ✓

Location: I-75 underpass

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: collared female panther #195 traveling south under I-75 bridge.

Mapping A

Cont.

UNCOLLARED FLORIDA PANTHER SIGN
(INCLUDING KITTENS OF COLLARED PANTHERS)

Date: 12-25-15 Panther # *(if kittens)*: uncollared

Sign Found: Tracks, Scat, Scrape, Kill, Live panther, Other
Sex: M F Unknown
Number / Composition of Individuals: one
Age/Condition of Sign: Trail cam

Unit #8

Location: Alico Underpass

UTM'S:

Habitat: Underpass

Observers(s): R. Pires

OBSERVATION: Male panther stretching under the bridge. Panther continued South.

Map