

Behavioral Observation Summary

By: Reece Theakston



Method of Observations

- Zoomonitor
- Ethograms- list of behaviors that might occur
- Animals were observed for set periods of time ranging from 5minutes to 40 minutes
- The during each observation session behaviors and locations were entered into zoomonitor every 1-2 minutes

Animals Observed

- A.C. Porcupines
- Alpaca
- Binturong
- Blue, Black, Green, and Yellow Tree Monitors
- Crocodile Monitor
- Crested Wood Partridge
- Malayan Tapirs
- Malayan Tigers
- Asian Small Clawed Otters
- White Cheeked Gibbons
- Red River Hogs
- Ringtail Cat
- Siamese Crocodile
- Southern Ground Hornbills
- Gray Bolivian Titi Monkeys
- Wallabies
- Oropendulas
- Cinereous Vultures
- Babydoll Sheep
- Kunekune Pigs
- Miniature Zebu
- Sarus Cranes
- Orangutans
- Moon Bears
- Sun Bears

Gray Bolivian Titis

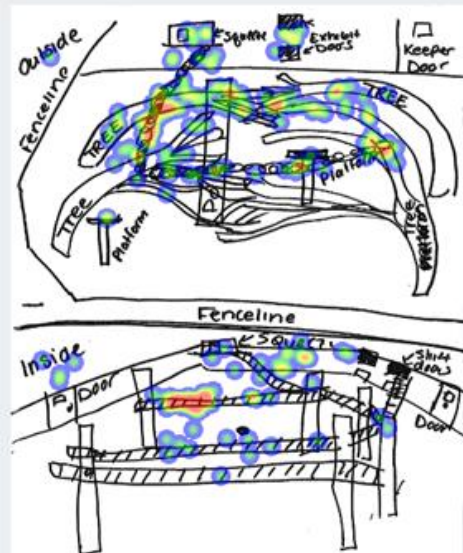
- Paris: Fluffier, cuter face
- Ziggy: Less fluffy, slight underbite
- 15-minute-long sessions
- One-minute intervals

Gray Bolivian Titis- Habitat use

- Pairs

Heat Map - Titi Monkey Ethogram (2)

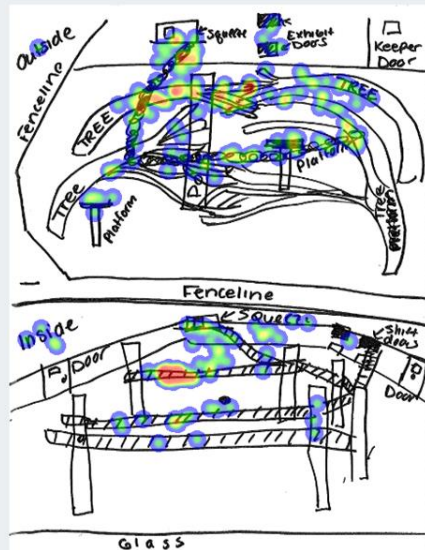
All Past Dates; Animals: Paris. Number of sessions in report: 21



- Ziggy

Heat Map - Titi Monkey Ethogram (2)

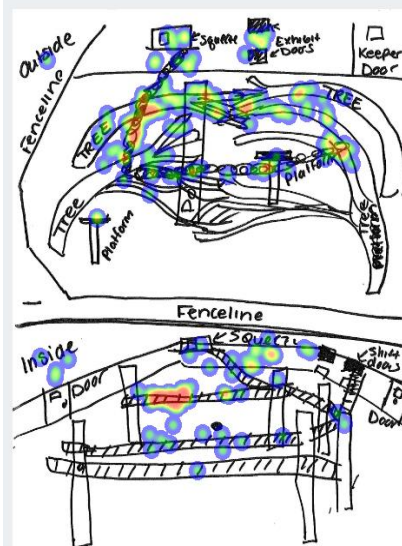
All Past Dates; Animals: Ziggy. Number of sessions in report: 22



- Overall

Heat Map - Titi Monkey Ethogram (2)

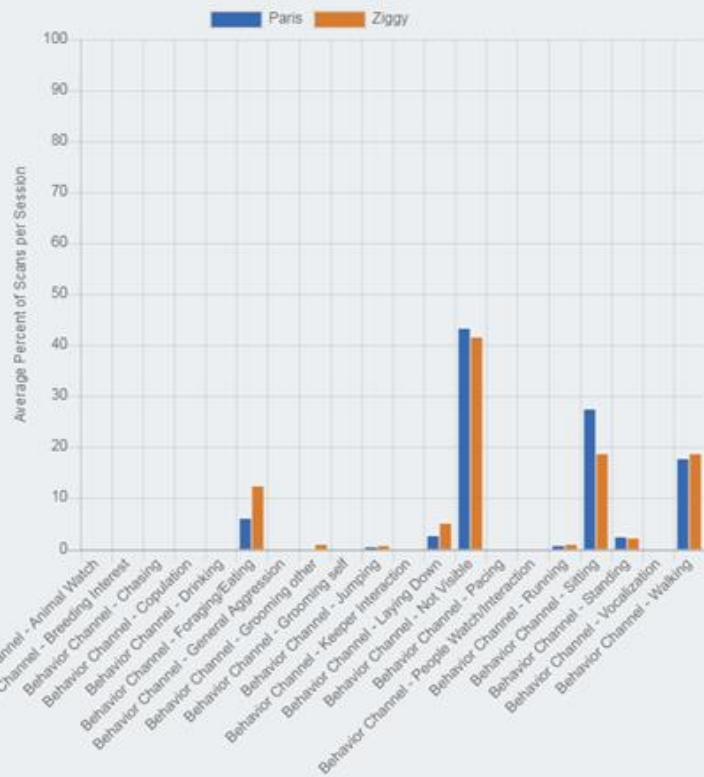
All Past Dates; Animals: Paris. Number of sessions in report: 21



Gray Bolivian Titis- Behaviors

Behavior Budget - Titi Monkey Ethogram (2)

All Past Dates. Number of sessions in report: 27



Farmyard Observations

- Luke: Smaller
 - Clover: Larger
 - Alvin: Black wool
 - Simon: White wool
 - Ethel: Larger, mostly black
 - Lucy: Redish orange
 - Ricky: Black and white
- 50 minute sessions
 - 1:15 second intervals

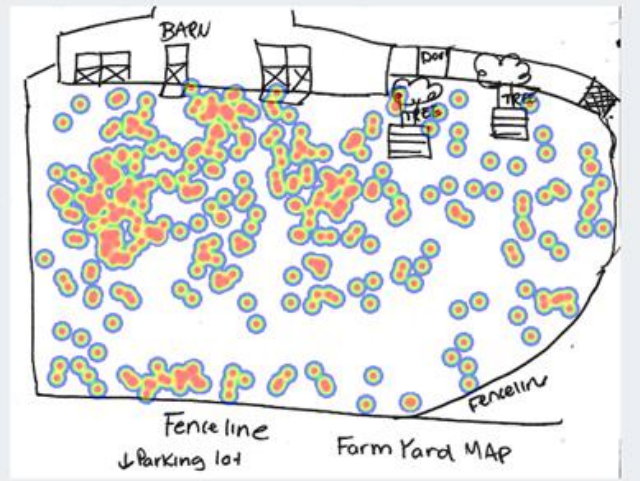
Farmyard Observation-Habitat use

- Alvin

- Simon

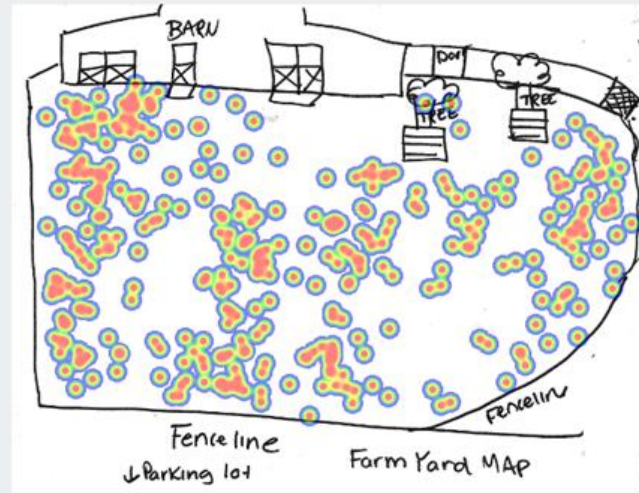
Heat Map - Farm Back Yard Observations

All Past Dates; Animals: Alvin. Number of sessions in report: 10



Heat Map - Farm Back Yard Observations

All Past Dates; Animals: Simon. Number of sessions in report: 9



Farmyard Observation-Habitat use

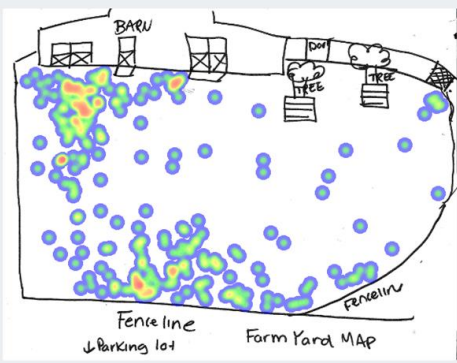
- Ethel

- Lucy

- Ricky

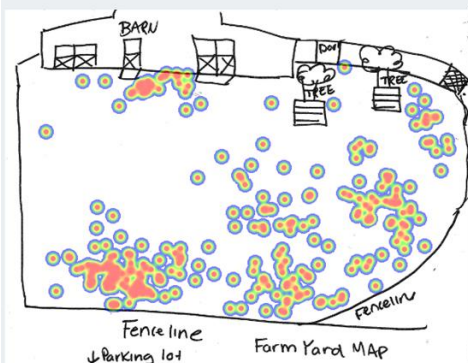
Heat Map - Farm Back Yard Observations

All Past Dates; Animals: Ethel. Number of sessions in report: 7



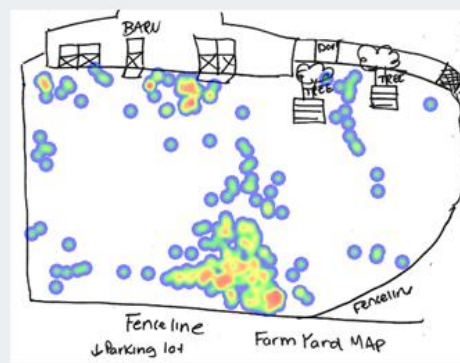
Heat Map - Farm Back Yard Observations

All Past Dates; Animals: Lucy. Number of sessions in report: 7



Heat Map - Farm Back Yard Observations

All Past Dates; Animals: Ricky. Number of sessions in report: 7



Farmyard Observation-Behaviors

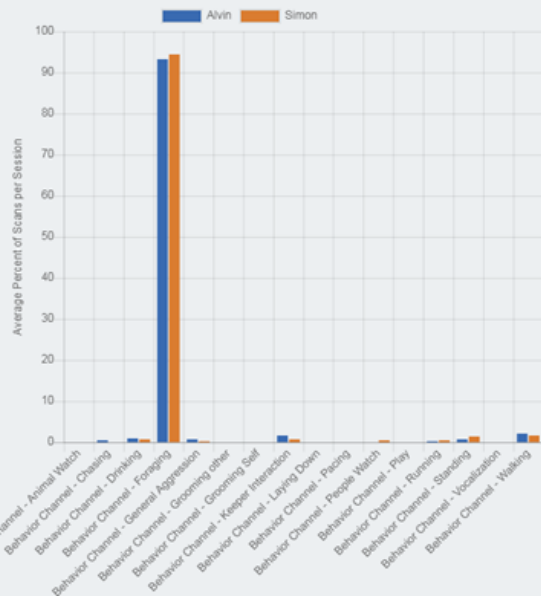
- Sheep

- Zebu

- Pigs

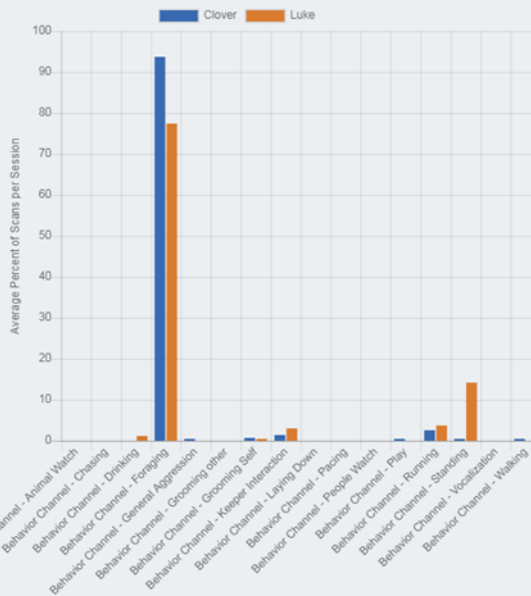
Behavior Budget - Farm Back Yard Observations

All Past Dates; Animals: Alvin, Simon. Number of sessions in report: 12



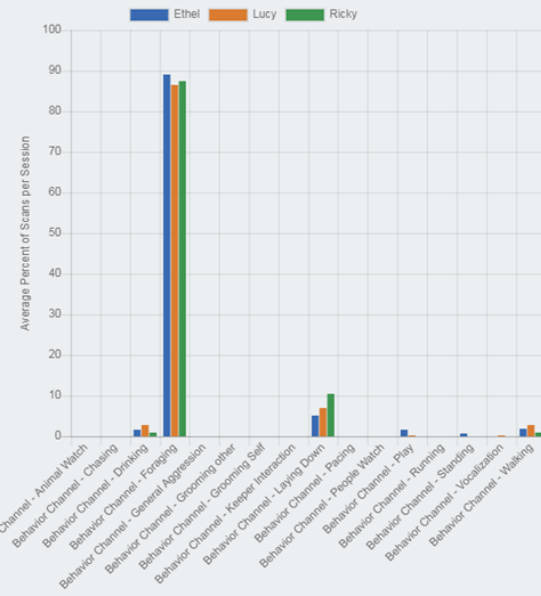
Behavior Budget - Farm Back Yard Observations

All Past Dates; Animals: Clover, Luke. Number of sessions in report: 8



Behavior Budget - Farm Back Yard Observations

All Past Dates; Animals: Ethel, Lucy, Ricky. Number of sessions in report: 8



Southern Ground Hornbills

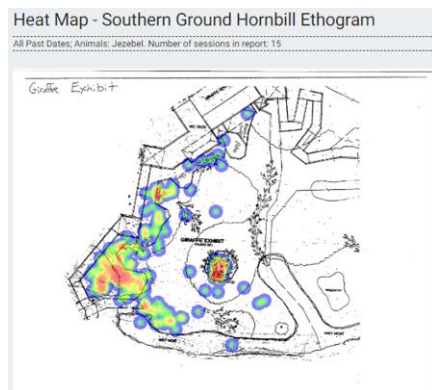
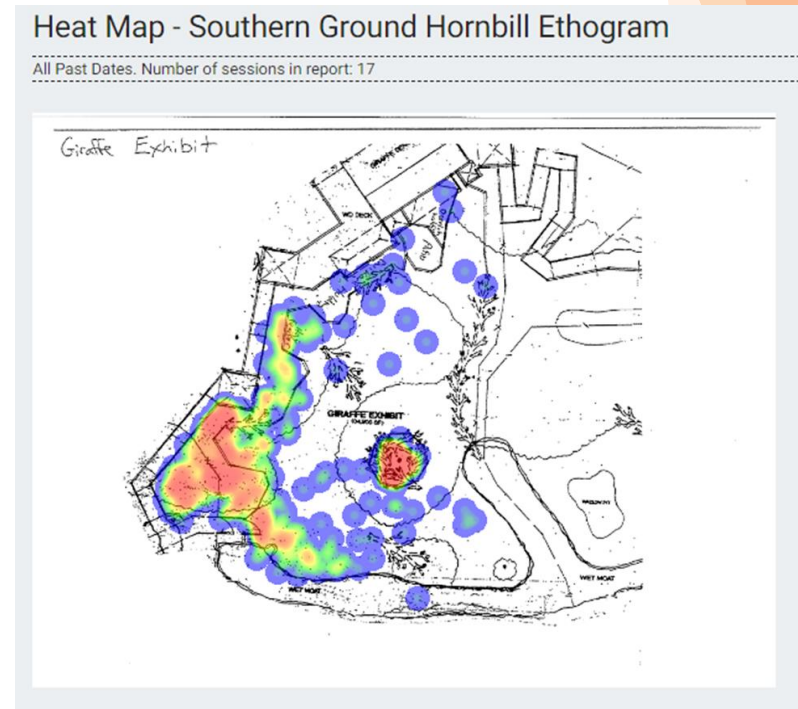
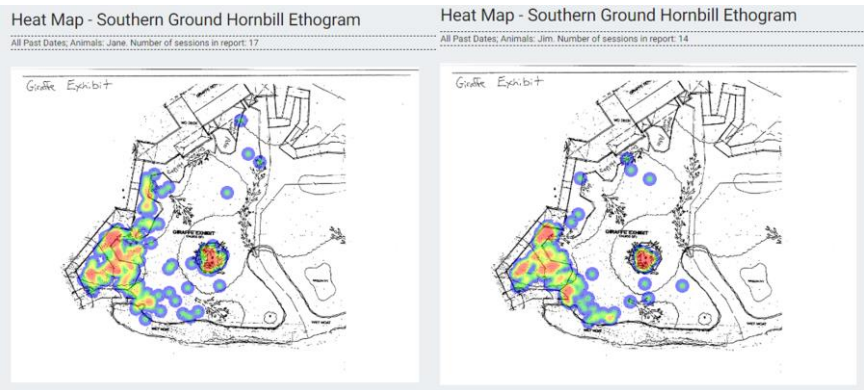
- Jane: Red coloration on head, no throat pouch
- Jezebel: Pinkish coloration on head, no throat pouch
- Jim: Red coloration on head, with throat pouch
- 30 minute sessions
- Two minute intervals

Southern Ground Hornbills- Habitat use

- Jane

- Jim

- Overall

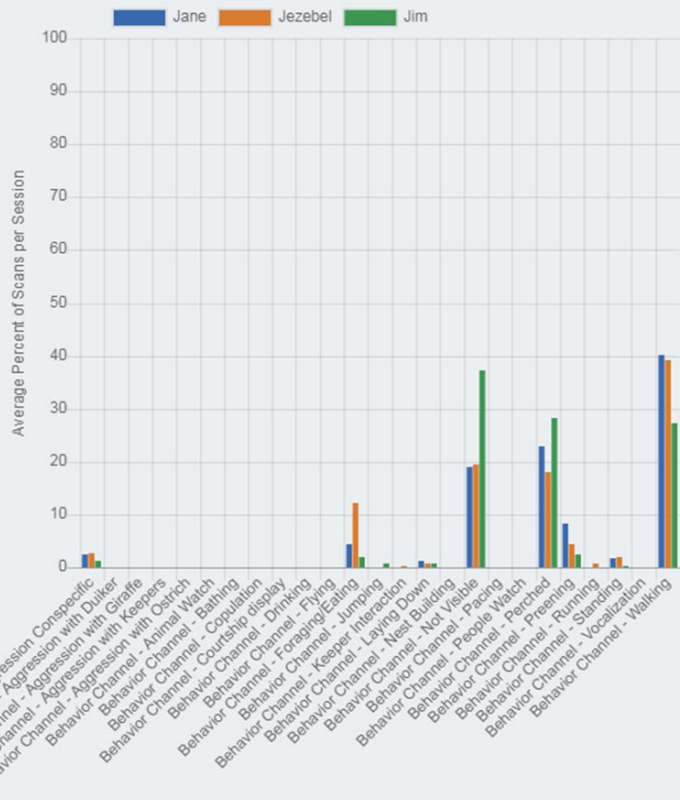


- Jezebel

Southern Ground Hornbills-Behaviors

Behavior Budget - Southern Ground Hornbill Ethogram

All Past Dates. Number of sessions in report: 17



Red River Hogs

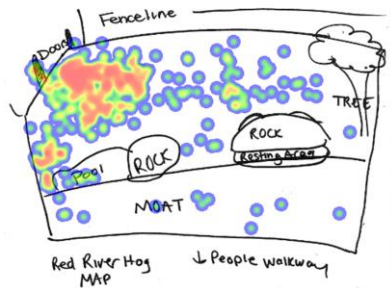
- Oboi: Largest, male
- Remy: Larger female, most white on face
- Tiki: Smaller female, least white on face
- 30 minute sessions
- One minute intervals

Red River Hogs-Habitat Use

- Oboi

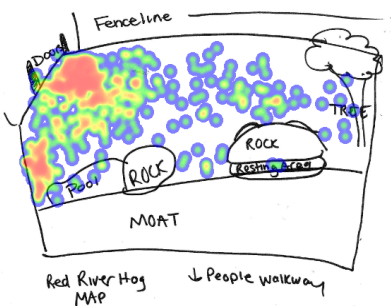
Heat Map - Red River Hog Ethogram (2)

All Past Dates, Animals: Oboi. Number of sessions in report: 18



Heat Map - Red River Hog Ethogram (2)

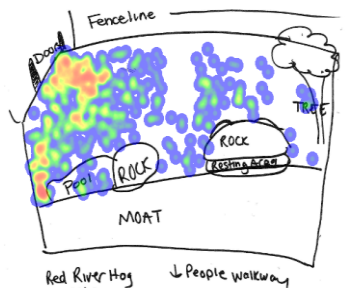
All Past Dates, Animals: Remy. Number of sessions in report: 18



- Tiki

Heat Map - Red River Hog Ethogram (2)

All Past Dates, Animals: Tiki. Number of sessions in report: 18

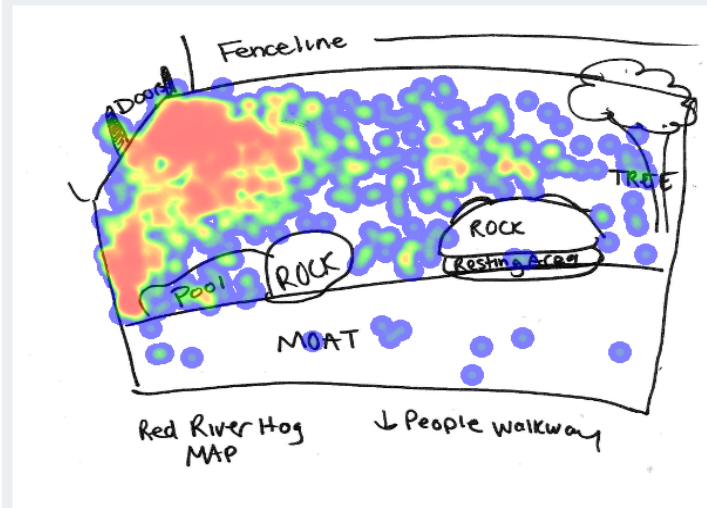


- Remy

- Overall

Heat Map - Red River Hog Ethogram (2)

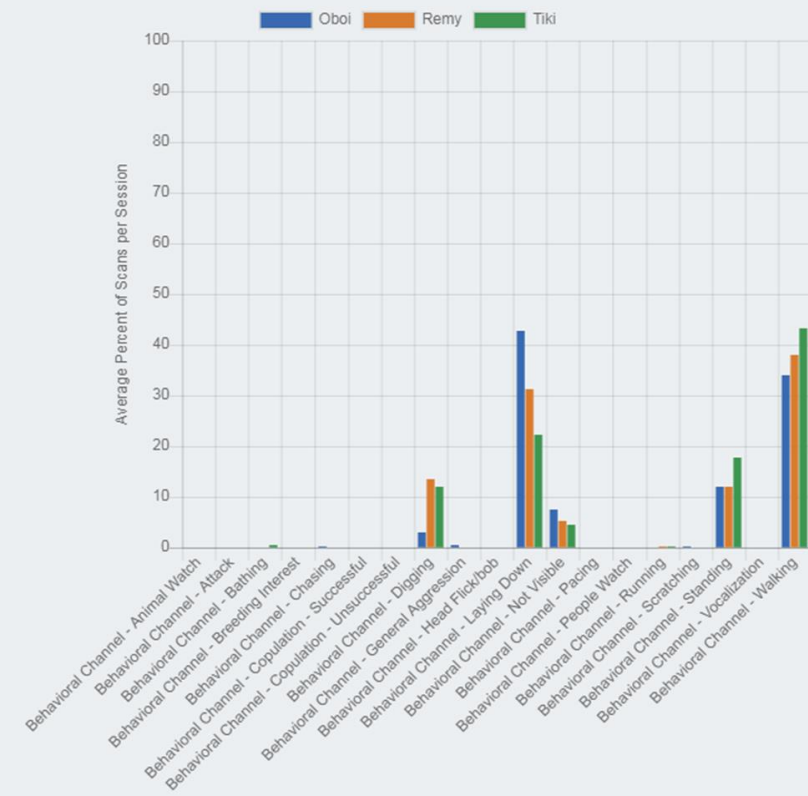
All Past Dates. Number of sessions in report: 18



Red River Hogs-Behaviors

Behavior Budget - Red River Hog Ethogram (2)

All Past Dates. Number of sessions in report: 18



Siamese Crocodile

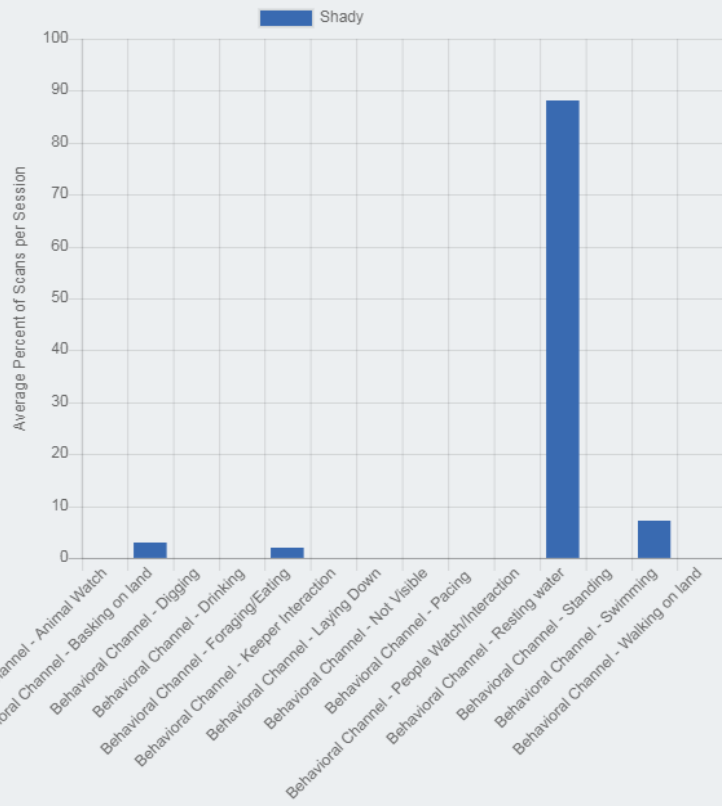
- Shady-Only one in enclosure
- 10 minute sessions
- One minute intervals



Siamese Crocodile-Behaviors & Habitat Use

Behavior Budget - Siamese Crocodile

All Past Dates. Number of sessions in report: 21



Heat Map - Siamese Crocodile

All Past Dates. Number of sessions in report: 19



Crocodile Monitor

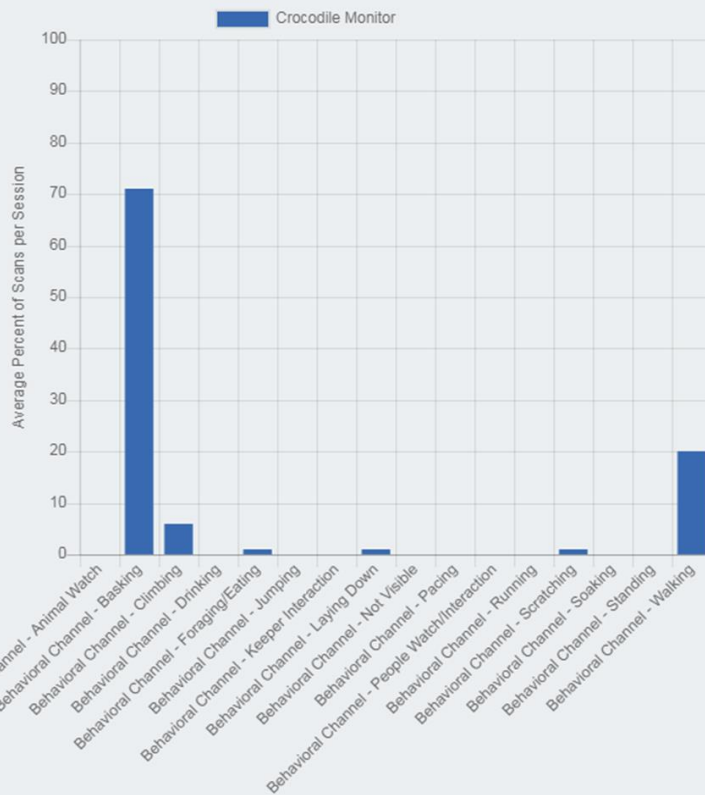
- Female- only one in enclosure
- Five minute sessions
- One minute intervals



Crocodile Monitor- Behaviors & Habitat Use

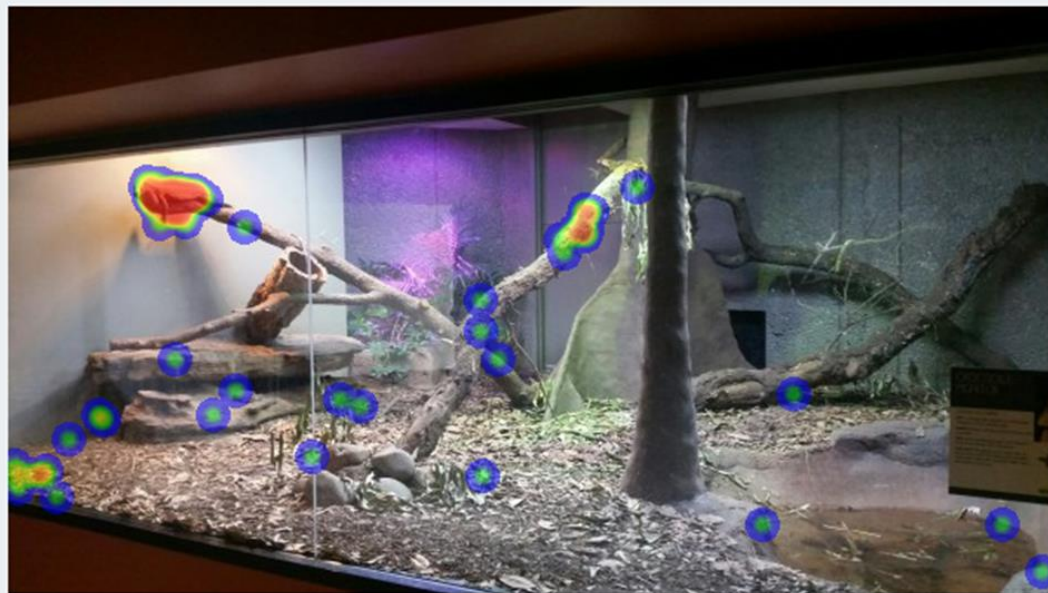
Behavior Budget - Crocodile Monitor Ethogram

All Past Dates. Number of sessions in report: 20



Heat Map - Crocodile Monitor Ethogram

All Past Dates. Number of sessions in report: 20



Binturong “Tasik”

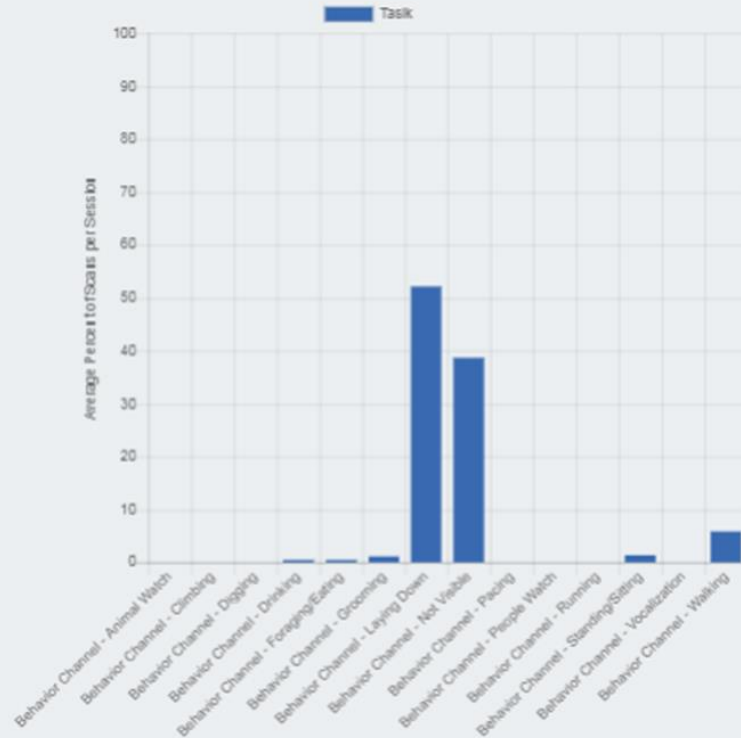
- Tasik- Only one in enclosure
- 15 minute sessions
- One minute intervals



Binturong- Behaviors and Habitat Use

Behavior Budget - Binturong (Tasik) Ethogram

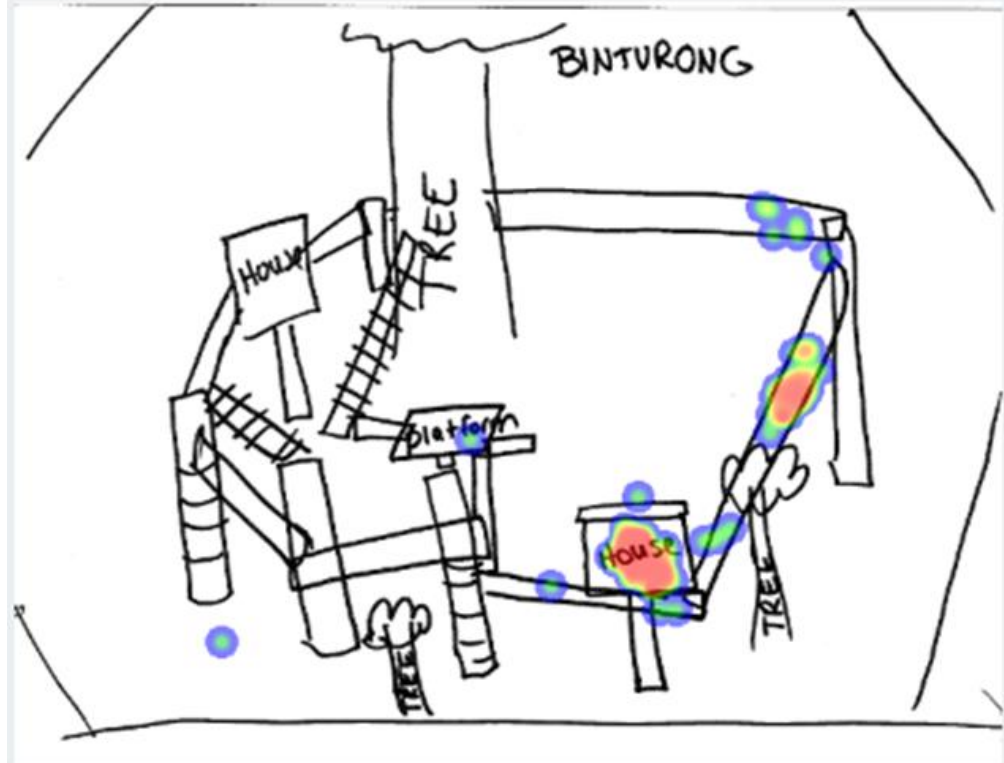
All Past Dates. Number of sessions in report: 16



Total duration values are estimated for sessions before 2/14/2018

Heat Map - Binturong (Tasik) Ethogram

All Past Dates. Number of sessions in report: 10

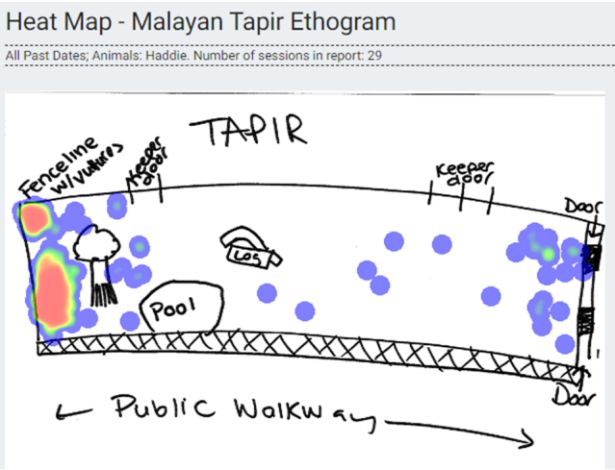


Malayan Tapirs

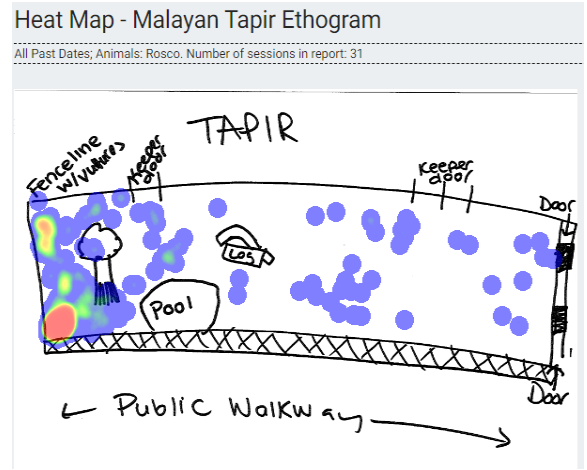
- Haddie: Female, larger
- Rosco: Male, smaller, markings on back
- 20 minute sessions
- One minute intervals

Malayan Tapirs- Habitat Use

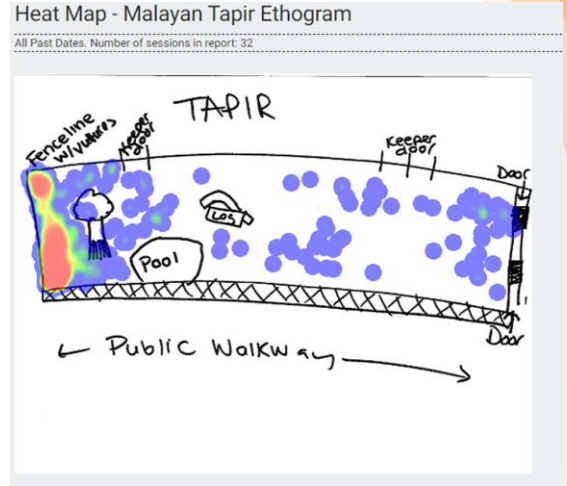
- Haddie



- Rosco



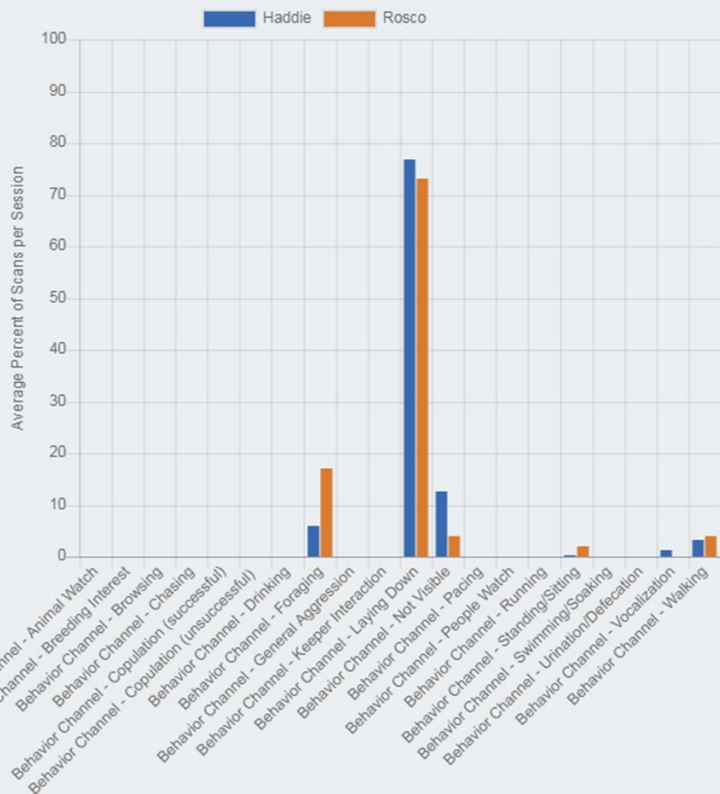
- Overall



Malayan Tapirs- Behaviors

Behavior Budget - Malayan Tapir Ethogram


























All Past Dates; Animals: Haddie, Rosco. Number of sessions in report: 32























My Ethograms

Malayan Tigers

+ ADD EDIT SHOW INACTIVE

Name	Description	Sub-group	Actions
+ General Aggression		Antagonistic	 
+ Chasing		Antagonistic	 
+ Bathing	Licking self or other	Grooming	 
+ People Watch		Other	 
+ Walking		Locomotion	 
+ Foraging/Eating		Ingestive	 
+ Drinking		Ingestive	 
+ Stalking		Locomotion	 
+ Running		Locomotion	 
+ Swimming		Locomotion	 
+ Keeper Interaction		Other	 
+ Pacing		Locomotion	 
+ Hissing		Vocalization	 

+ Roaring		Vocalization	 
+ Laying Down		Resting	 
+ Climbing		Locomotion	 
+ Animal watch	Tigers/Orangutans	Other	 
+ Jumping		Locomotion	 
+ Standing		Locomotion	 
+ Sitting		Resting	 
+ Head bob	Moving head up and down quickly	Antagonistic	 
+ Scent Mark	Urinating/deficating	Other	 
+ Soaking		Resting	 

My Ethograms

Cinereous Vultures

Name	Description	Sub-group	Actions
+ Eating/foraging	Interval behavioral and yard usage data collection.	Digestive	
+ Drinking		Digestive	
+ General aggression		Antagonistic	
+ Chasing		Antagonistic	
+ Vocalization	Vocal noises	Vocalization	
+ Running		Locomotive	
+ Walking		Locomotive	
+ Flying		Locomotive	
+ Preening	Cleaning feathers	Comfort	
+ Wing flap	Flap wings while on ground or perched	Comfort	
+ Wing rise	Wings extended without moving for extended period	Comfort	
+ Soaking		Comfort	
+ Body stretch		Comfort	

+ Bathing	using water to clean feathers	Comfort	
+ Standing/sitting		Resting	
+ Perched		Resting	
+ Laying down		Resting	
+ People watch/interaction		Other	
+ Keeper interaction		Other	
+ Animal watch		Other	
+ Sky look	looking up at the sky	Other	
+ Head bob	Moving head up and down quickly	Other	
+ Tail bobbing	Bird peached with keel touching perch, possibly fluffed up, tail rising and falling with each breath	Other	

Malayan Tigers

- Christopher: In enclosure by himself
- Osceola: Wider face
- Stubblely: More narrow face
- 20 minute sessions
- One minute intervals

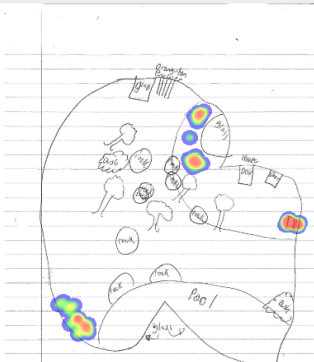


Malayan Tigers-Habitat Use

- Christopher

Heat Map - Malayan Tiger Ethogram

All Past Dates; Animals: Christopher. Number of sessions in report: 3



Heat Map - Malayan Tiger Ethogram

All Past Dates; Animals: Osceola. Number of sessions in report: 2



- Stubblely

Heat Map - Malayan Tiger Ethogram

All Past Dates; Animals: Stubblely. Number of sessions in report: 2



- Osceola

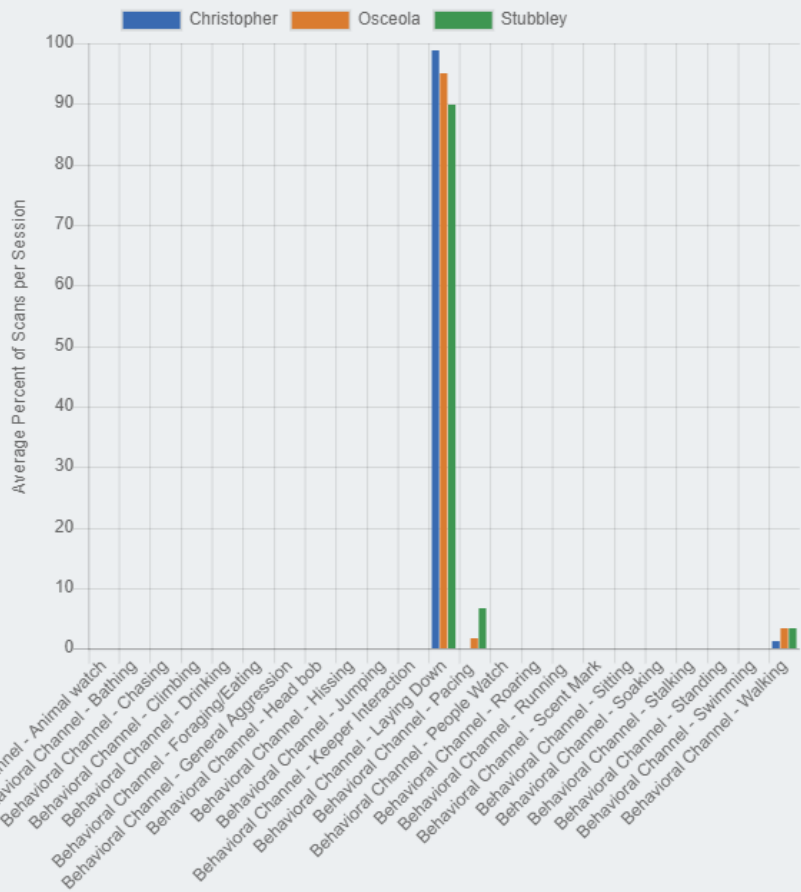
- Overall

Heat Map - Malayan Tiger Ethogram

All Past Dates. Number of sessions in report: 5



Malayan Tigers-Behaviors



Cinereous Vultures

- Meera: All brown feathers
- Eve: Some white feathers
- 20 minute sessions
- One minute intervals

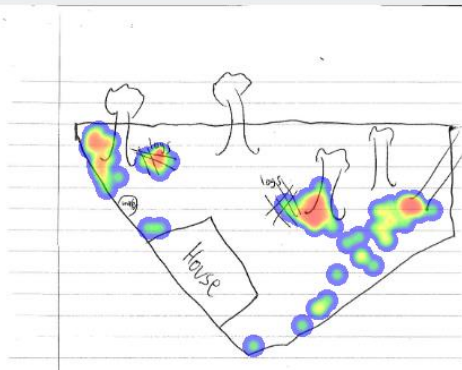


Cinereous Vultures-Habitat Use

- Meera

Heat Map - Cinereous Vulture

All Past Dates; Animals: Meera. Number of sessions in report: 7



- Eve

Heat Map - Cinereous Vulture

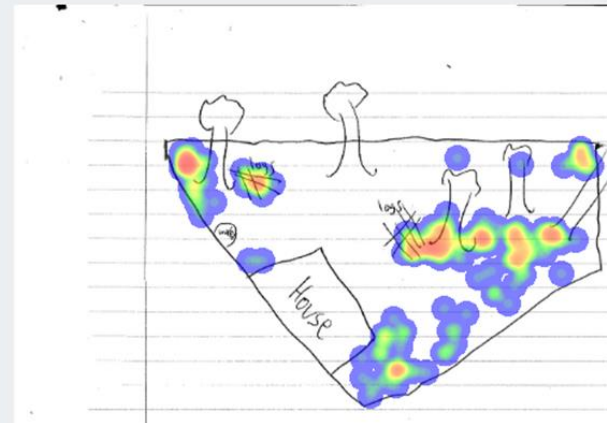
All Past Dates; Animals: Eve. Number of sessions in report: 7



- Overall

Heat Map - Cinereous Vulture

All Past Dates. Number of sessions in report: 7



Enrichment Observed

6/24/2019	Moon bears		Increase foraging	Buiscits	D5,G5	8/17/2019	Siaman g		Juice ice cubes	Increase foraging	D3,G5
7/6/2019	Orangatans	Dara,Sofie,Solaris	Increase foraging	Uncooked oatmeal	D5,G5	8/18/2019	Zebu	Luke, Clover	Green Weeble	Exploration/play	D5,G5
7/8/2019	Binturong	Tasik	Increase foraging	Fruit Spread out	D3,G5	8/19/2019	Alpaca	Troika, Calico, Hermione	Rolling feeders	Foraging/Exploration	D2,G3
7/14/2019	Tigers	Osceola, Stubbley	Ball w/scent(perfume)	Increase activity	D5,G5	8/31/2019	Siamese Crocodile	Shady	Biscuis	Foraging/training	D5,G5
7/15/2019	Binturong	Tasik	Tiger scented stick	Defense mechanism	D4,G5	9/1/2019	Armadillo/Shrews		Mulch	Exploration	D5,G5
7/13/2019	Moonbear	Chai	Hard boiled eggs/pine shavings/buiscuits	Increase foraging	D5,G5	9/7/2019	Siamese Crocodile	Shady	Mice around water edge	Hunting/foraging	D4,G5
7/20/2019	Orangutan	Dara, Sofie, Solaris	Pbutter in boxes (scattered)	Increase foraging	D5,G5	9/8/2019	Siamese Crocodile	Shady	Snake shed	Social behaviors/Exploratory	D4,G5
7/22/2019	Binturong	Tasik	Diet on platform	Increase foraging	D3,G5	9/14/2019	Siaman g		Stacked PVC cups w/ watermelon	Foraging/exploratory	D5,G5
7/27/2019	Moon Bear	Chai	Diet in box scatter mealworms	Increase foraging	D5,G5	9/15/2019	Moon bear	Thai	Redpanda scent/applecider vinager	Scent/explore	D2,G3
8/3/2019	Orangutan	Dara, Sofie, Solaris	Green Grazer/sunflower seeds/nuts	Increase foraging	D5,G5				Fish scattered	Bite/forage	D5,G5
8/10/2019	Tigers	Osceola, Stubbley	Feeding meatballs	Increase foraging	D5,G5						

Enrichment Videos



Proposed Enrichment

- Binturong “Tasik”
- -Place diet around enclosure, goal increase foraging
- -Place stick with tiger scent in enclosure, goal defense mechanisms



Proposed Enrichment

- Siamese Crocodile
- -Place mice around the edge of the water, goal foraging/hunting behavior
- -Place reptile sheds in enclosure, goal social behaviors

Results

- Tasik only ate some of his food
- Tasik did preform a defense mechanism, he stood on his hind legs to appear large
- Shady did preform foraging behaviors, she slowly approached the mice nearest to the edge of the water and then lunged out to grab it
- Shady did preform social behaviors with snake sheds, although there was no physical contact with sheds, she slapped top of the water with mouth and showed raised body position in the water in front of the sheds

Any Questions?

