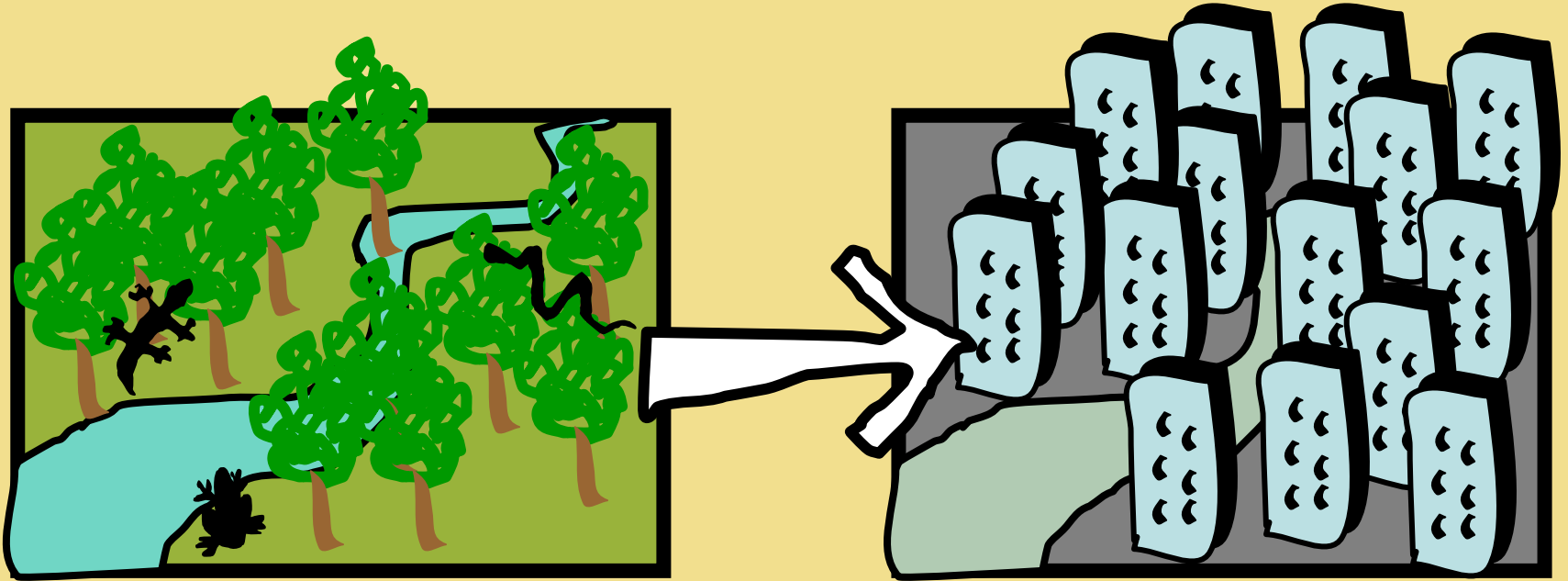


Prologue: Today's cities are yesterday's villages..



Historically, human settlements have occupied enviable 'naturally subsidised' positions.

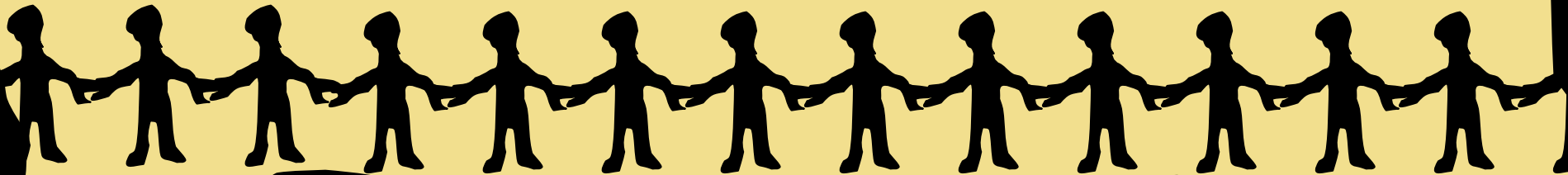


Having squandered much of our inheritance, today we witness the regular paradox between 'conservation' and 'development'.

Thus conservation is not a luxury, but a responsibility.



- ~ This is a call for Collective action.
- ~ A pool of data, resources and expertise to ensure efficacy.
- ~ An attempt to bring in a 'culture' in the ecological fraternity wherein information is allowed to seep into all layers.
- ~ To go beyond basic checklists and mere quantification, towards parameters such as habitat, behavior and distribution.



But who's to 'handle' the problem??

**VIDEO KILLED THE RADIO
STAR,
PHOTOGRAPHY KILLED
THE NATURALIST.**



According to a modest estimate, there are about 500 sarpamitra in and around Pune. Even if we assume that 300 of these kept 5 (a very conservative guess) 'specimen' in captivity, it is evident that 1500 snakes are being deprived of their right to life apart from assuming their rightful niche in the ecosystem.

\$#@
%!!



»»» DIVERSION »»»

“The Hoarsub Scale of ethical
sensitivity towards biological diversity”

The Calibrated Scale of Life on earth

100



0

Mammalia

Aves

Reptilia

Amphibia

Pisces

Insecta

Arachnida

Crustacea

Myriapoda

Mollusca

Annelida

Echinodermata

Protozoa

Plantae

Bacteria, Archaea, Molds, Fungi etc.



Threshold 3 100

Mammalia

Aves

Reptilia

Amphibia

Pisces

Insecta

Arachnida

Threshold 2

Crustacea

Myriapoda

Mollusca

Threshold 1 ...

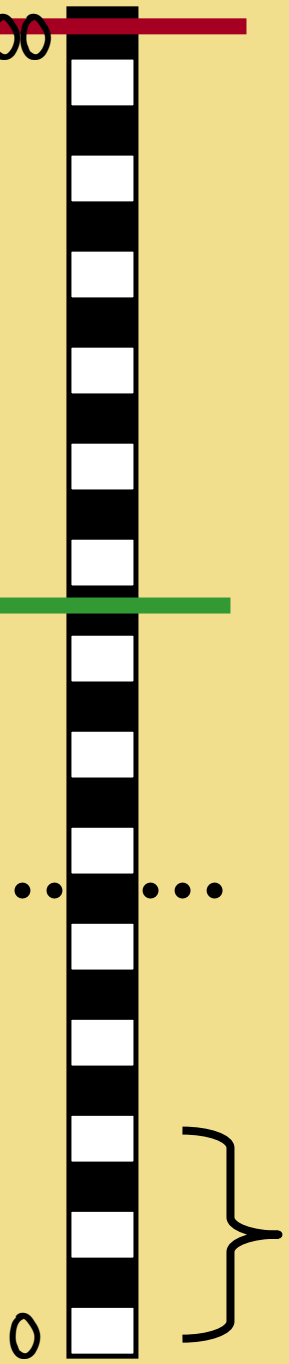
Annelida

Echinodermata

Protozoa

Plantae

Let's kill 'em all!
One by one..



Bacteria, Archaea, Molds, Fungi etc.

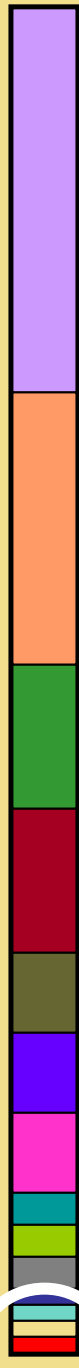
FUNDING AVAILABLE!

NEO CONSERVATION

CAN HANDLE!
(FUN)

LOSER.

JOKING???



'Anthropoda'

Mammalia

Aves

Reptilia

Amphibia

Pisces

Insecta

Arachnida

Crustacea

Myriapoda

Mollusca

Annelida

Echinodermata

Protozoa

Plantae

Bacteria, Archaea, Molds, Fungi, and lots more!!

The 'Trickle Down' effect in conservation

Kidspeak: Relevant factors!

- Size
- External Appearance
- Eyes!
- Ability to produce sound
- Blood/body fluids
- Motion
- Similarity to 'Anthropods'

Hence: Is 'Pain' an experience or an expression?

◀◀◀ THAT'S ENOUGH ▶▶▶

Pune Rescue & Rehabilitation Datasheet:

Rescue Data:

Date:

Time:

Location:

Owner of Premises:

Phone:

Microhabitat:

- Building indoors Nala/Stream/Well/Haud/River
 Building Surrounds Agricultural Land
 Open Space/ Wasteland Water Tank/Drainage
 Plantation/ Forest area Road
 Other:

Distance from: 1) Human Dwellings: _____
 2) Open Water Source: _____

Sky: Clear Overcast

Temperature: Cold Cool Pleasant Hot V.Hot

Rainfall: Drizzle Moderate Heavy

Humidity: Dry Humid

Wind: Still Light Breeze Strong Wind Storm

Specimen: Adult Sub-adult Juvenile

Common Name:

Scientific Name:

Sex: M F Unknown

Number:

Size:

Activity:

Remarks:

Rehabilitation Data:

Date:

Time:

Location:

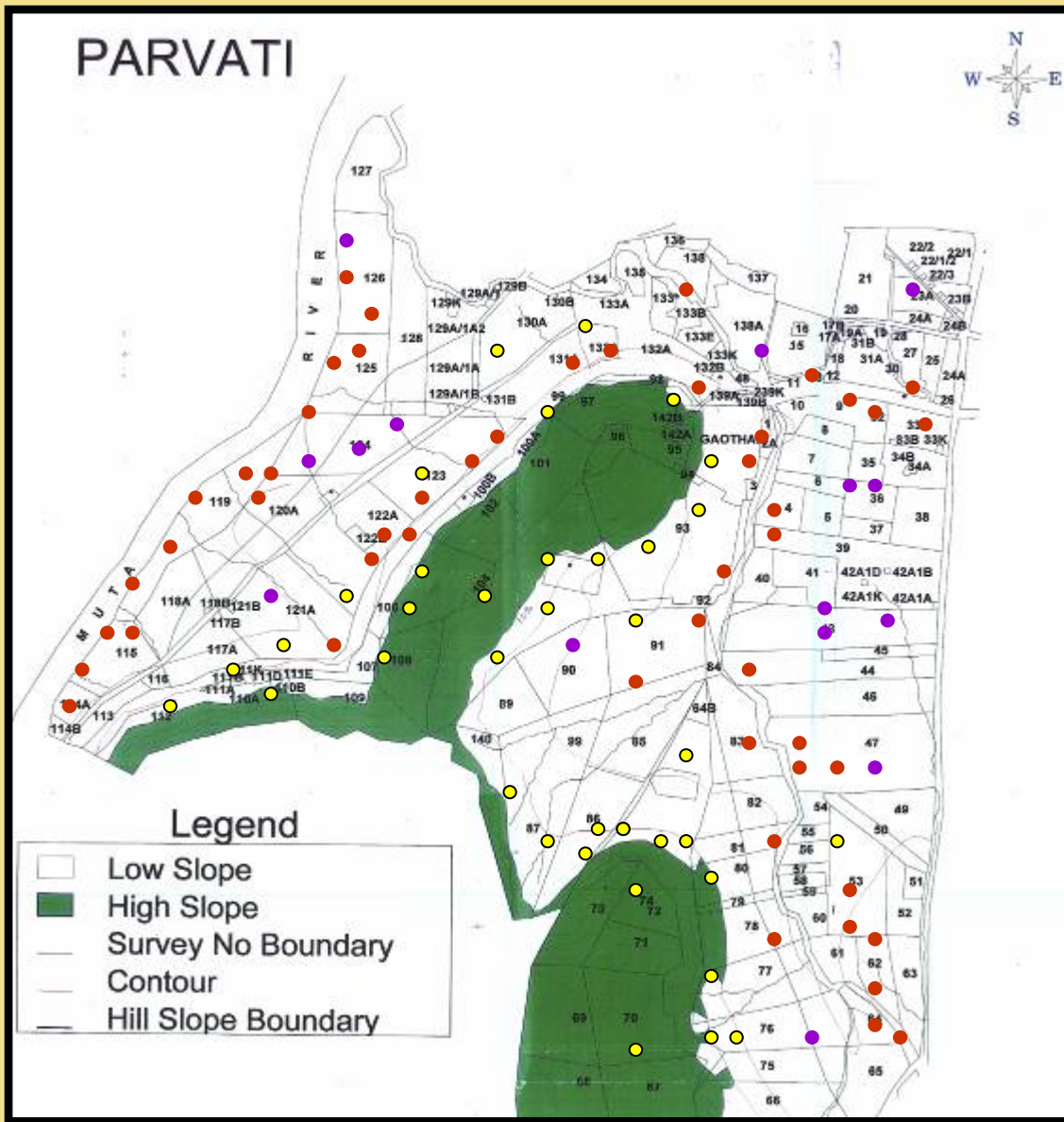
Data Submitted By:

Phone:

If the sarpamitra community works ethically and pools in their knowledge and energy, an immense amount of data can be generated.

Permutations and combinations of available information will bring in a high degree of specificity.

e.g. How many green keelbacks were found in Karvenagar in the month of May when the sky was overcast.



Mapping the collected data would further offer interesting insights and endless possibilities.

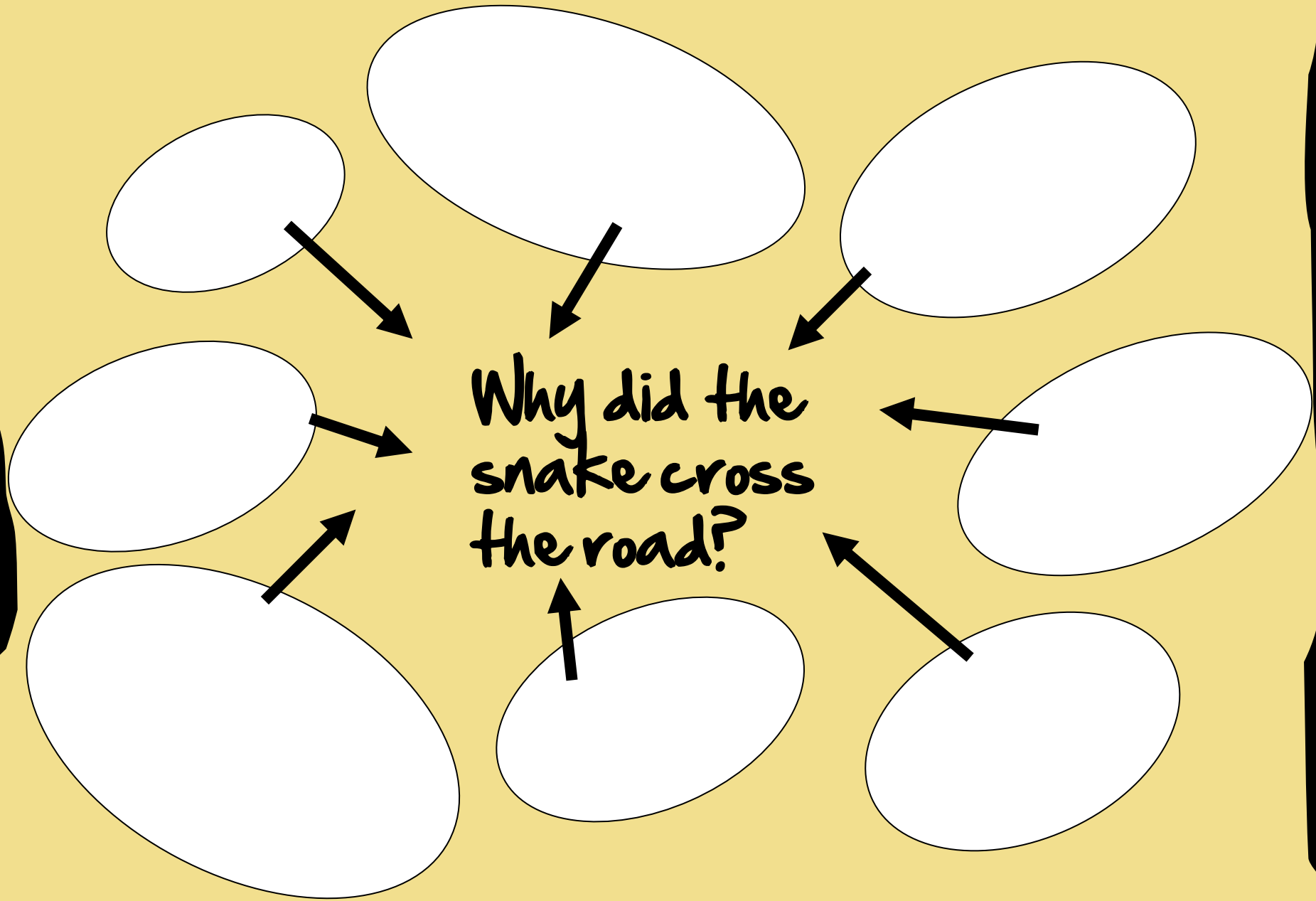
This would help establish corridors, formulate patterns and trends in the population.

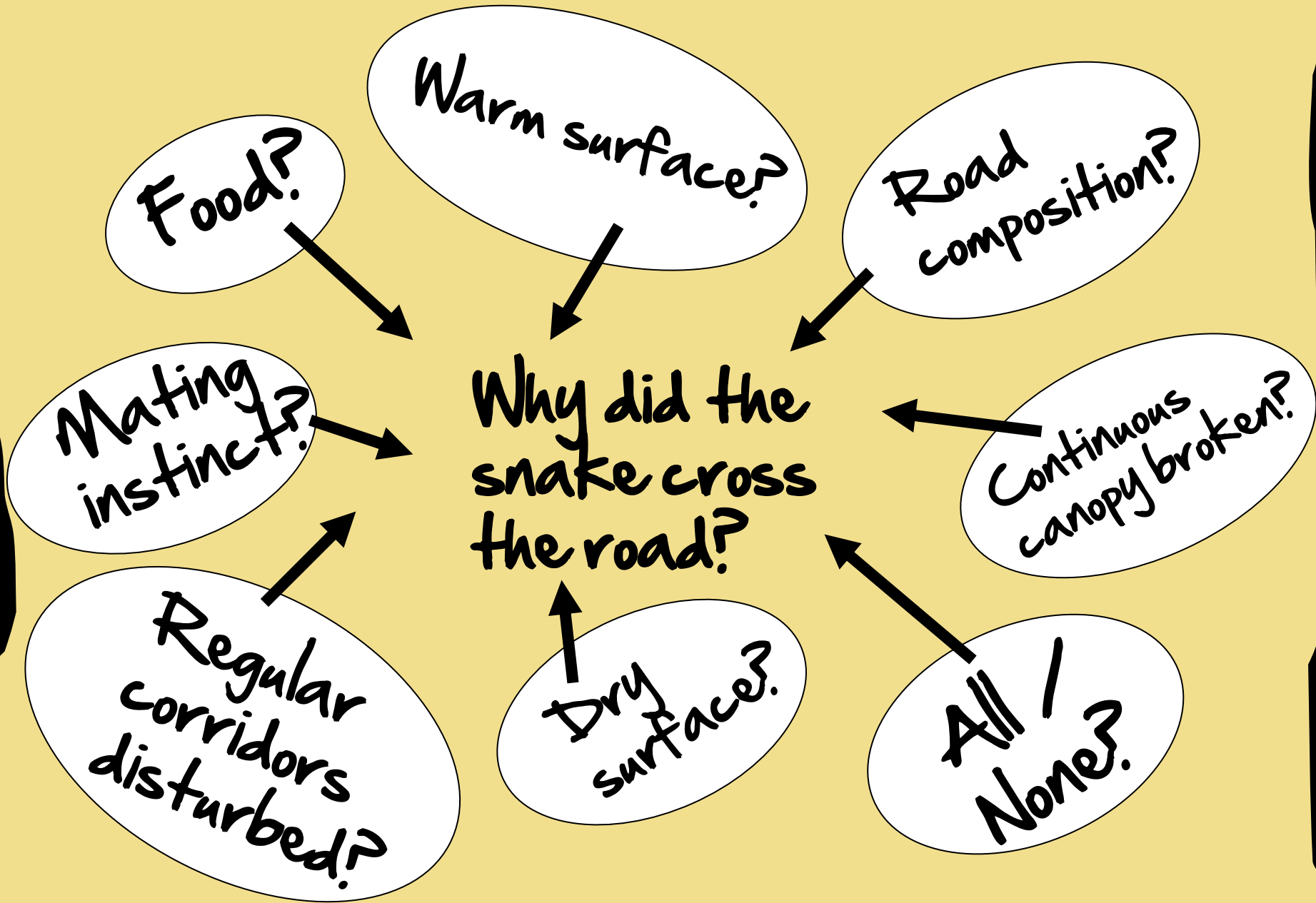
Consecutive efforts would register changes in behavior and subsequently the habitat.

A horizontal, torn white strip of paper is centered on a yellow background. The strip has irregular, jagged edges, suggesting it was torn from a larger sheet. The text "Speed kills..." is written in a black, casual, handwritten font on the white strip. The yellow background also has a slightly irregular, torn edge at the very top and bottom, giving the overall image a layered, scrap-like appearance.

Speed kills...

Why did the
snake cross
the road?





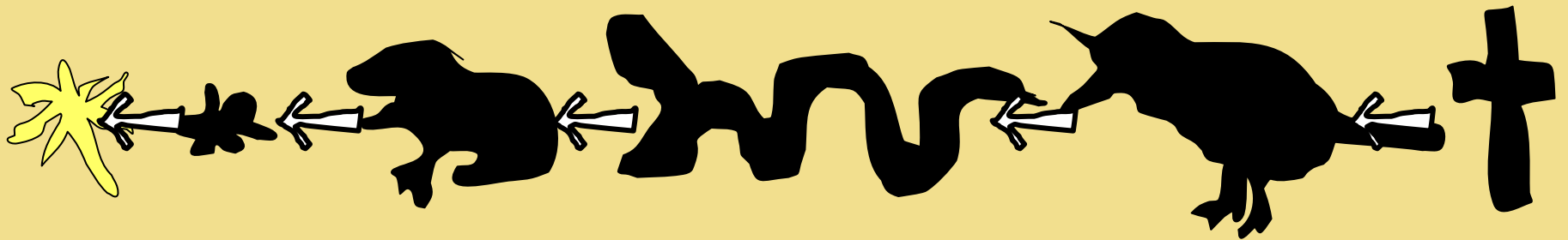


Roads have been known to produce various kinds of ecological consequences including habitat loss and fragmentation.

~ Direct effects (roadkills and road construction losses)

~ Indirect effects (vehicle exhaust and aquatic runoff)

A 'Death Cascade' effect may be observed and needs to be verified:







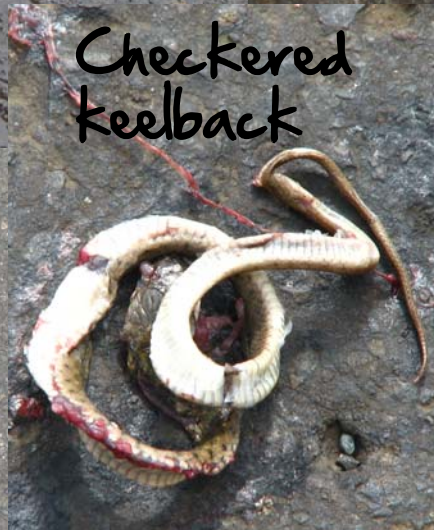
Common sand boa



Bamboo pit viper



Buff striped keelback



Checkered keelback



Common Catsnake



Indian Rock Python



Each factor suspected of contributing to roadkills can be studied and analyzed.

After a substantial amount of field data, post analysis, we could then perhaps help influence road designs which would take into account the findings of the study and would be least intrusive.







Scrambled snake



Bronzeback sp.



Common Trinket



Shieldtail sp.



Cat snake sp.



Vinesnake



Spectacled Cobra



Checkered Kb



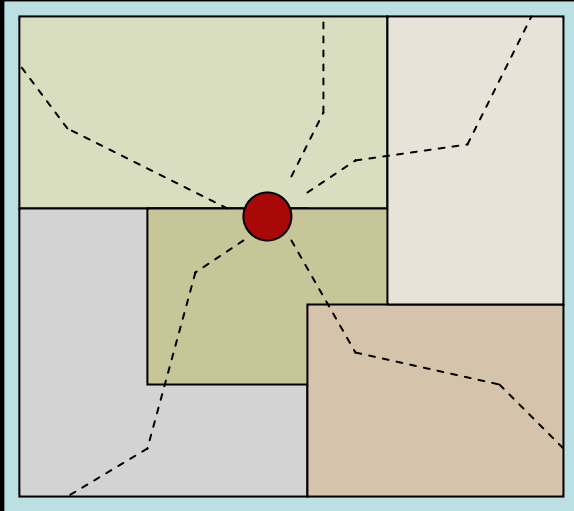
Russels Viper

PROJECT:



PUNE-MULSHI-TAMHINI-DONGARWADI

The on road exercise is like a vehicular line transect survey. This should ideally be replicated for the entire landscape mosaic.



This data would give us a fair idea of what species inhabit our surrounding region, habitat correlation, distribution, behavior and seasonal variations along with lots more!

Pune Roadkill Survey Datasheet:

Road:

Date:

Time:

Location:

Distance from: 1) Human inhabitation: _____
2) Open Water Source: _____

Specimen: () Adult () Sub-adult () Juvenile

Common Name:

Scientific Name:

Sex: () M () F () Unknown

Number:

Size:

State: () Alive () Injured () Dead

Activity:

Remark:

Road Surface: () *Kutchha* () Asphalt () Cement

Road Condition: () Smooth () Rough

Habitat:

() Agriculture

() Village/human dwellings

() Grassland/wasteland

() Open Rocky ground

() Plantation/Forest

() Discontinuous thickets/scrub

() Nala/Stream/River

() Cliffs& scarps

() Other:

Sky: () Clear () Overcast

Temperature: () Cold () Cool () Pleasant () Hot () V.Hot

Rainfall: () Drizzle () Moderate () Heavy

Humidity: () Dry () Humid

Wind: () Still () Light Breeze () Strong Wind () Storm

Data Submitted By:

Phone:



$$X_6 = 600m$$

EST. 2007

Survey stats:

- ~ Samples the region west of Pune city
- ~ Covers a length of 65 kms in 2 stretches
- ~ Each stretch has been divided into segments of 100m each
- ~ Sample area has been mapped by GPS
- ~ Covers only the wet forest type for Pune region

$$\boxed{30} = 30km$$



Stretch
B!!



Tamhini

Varak

Palase

Mu

Image © 2009 GeoEye
Image © 2009 DigitalGlobe
© 2009 Google
© 2009 Cnes/Spot Image

18°29'24.13" N 73°28'04.26" E elev 2257 ft

©2009 Google

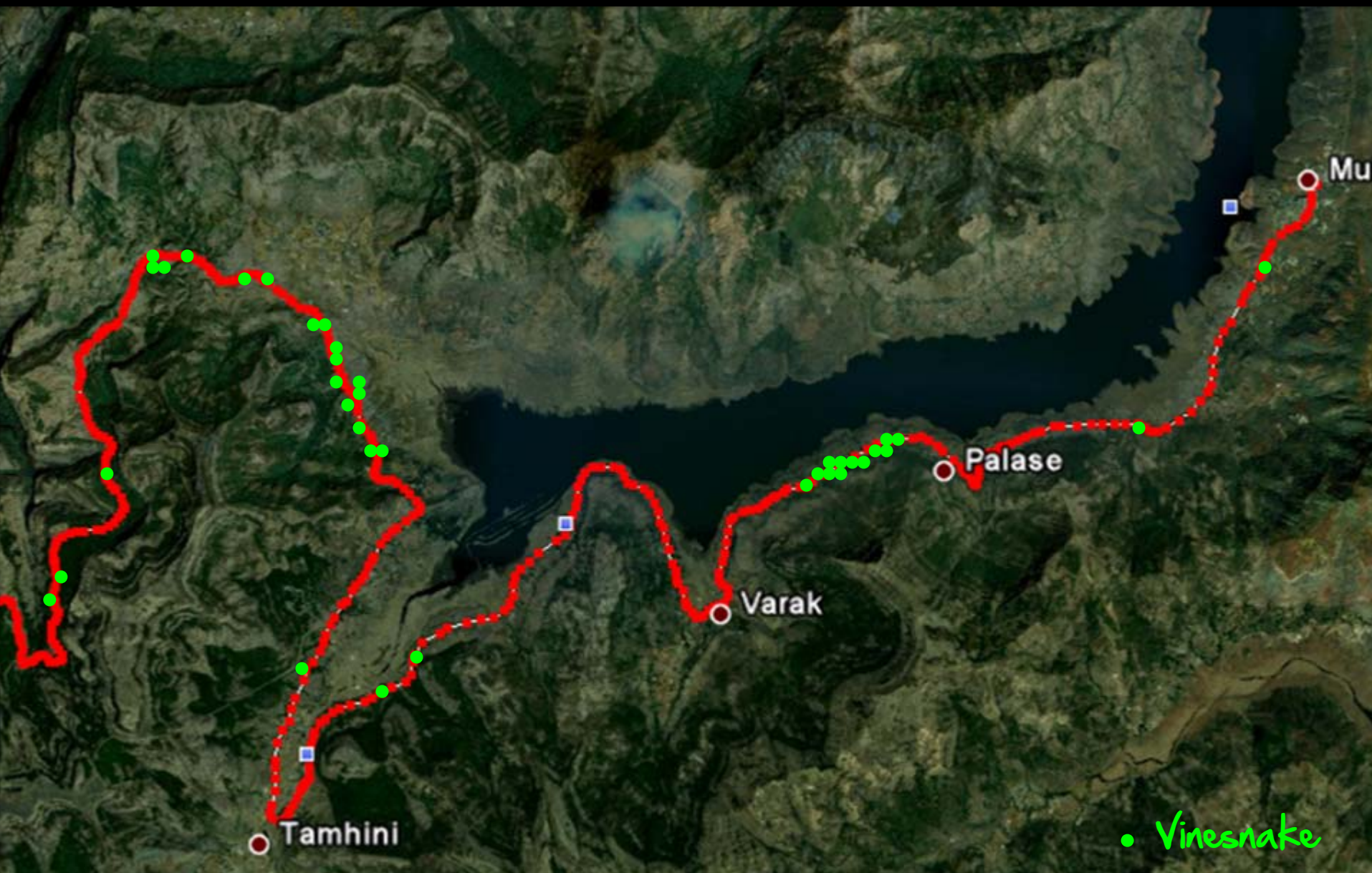
Eye alt 35720 ft

I247

	A	B	C	D	E	F	G	H	I	J
1	Segment	Road Surface	Road Condition	Canopy Cover	Habitat		Stream	Human Inhabitation		
2					LHS	RHS				
3	0	tar	smooth	absent	houses	agri+humandwelling	absent	present - mulshi village		
4	0.1	tar	smooth	absent	houses	agri+humandwelling	absent	present		
5	0.2	tar	smooth	absent	houses	agri+humandwelling	absent	present		
6	0.3	tar	smooth	absent	scrub+agri	agri	absent	absent		
7	0.4	tar	smooth	absent	scrub+agri	agri	absent	absent		
8	0.5	tar	smooth	absent	scrub	agri	absent	absent		
9	0.6	tar	smooth	absent	agri	agri	absent	absent		
10	0.7	tar	smooth	absent	agri	agri	absent	absent		
11	0.8	tar	smooth	absent	agri	open	absent	absent		
12	0.9	tar	smooth	absent	agri	open	absent	absent		
13	1	tar	smooth	absent	agri	open	absent	absent		
14	1.1	tar	smooth	absent	agri	open	absent	present - hotel		
15	1.2	tar	smooth	absent	agri	open	present	present+compound		
16	1.3	tar	smooth	absent	agri	open	absent	present+compound		
17	1.4	tar	smooth	absent	agri	open+humandwelling	absent	present-houses		
18	1.5	tar	smooth	absent	scrub+agri+open	agri	absent	absent		
19	1.6	tar	smooth	absent	forest+popen	open	absent	present+compound		
20	1.7	tar	smooth	absent	forest+popen	open	absent	present+compound		
21	1.8	tar	smooth	absent	scrub	open	present	present+compound		
22	1.9	tar	smooth	absent	agri	agri	absent	absent		
23	2	tar	smooth	absent	agri+scrub	agri	present	absent		
24	2.1	tar	smooth	absent	agri	humandwelling	absent	present		
25	2.2	tar	smooth	absent	agri	agri	absent	absent		
26	2.3	tar	smooth	absent	scrub+open	open+agri	absent	absent		
27	2.4	tar	smooth	absent	forest+open	agri	present	present-compound		
28	2.5	tar	smooth	absent	agri+scrub	humandwelling	present	absent		
29	2.6	tar	smooth	absent	agri	humandwelling	present	present-Gonavdi		
30	2.7	tar	smooth	absent	dense scrub	open	absent	present-plantation		
31	2.8	tar	smooth	absent	plantation+open	humandwelling+open	present	present+compound		
32	2.9	tar	smooth	absent	scrub+plantation	humandwelling+open	present	present+compound		
33	3	tar	smooth	absent	scrub+plantation	open	present	present		

E205

	A	B	C	D	E	F	G
1	Name of Naturalist						
2	Sourabh Phadke						
3	Date	Trip Data					
4		(Distance+Conditions)					
5	16/7/7	Completed 60/65km, Monsoon,Overcast,Cold, Light breeze					
6							
7							
8	Time	Segment (Suffix A=Pune-Mulshi, B= Mulshi-Dngrwdi)	Specimen				
9			Name	Adult/juv	Alive/Injured/Dead	Remarks	
10							
11	730	23A	Common Trinket	Juv	Dead	-	
12	740	25A	Checkered Keelba	Adult	Dead		
13	745	28.8A	Russels Viper	Adult	Dead	-	
14	845	11.1B	Checkered Keelba	Juv	Dead		
15	850	12B	Bamboo Pit Viper	Juv	Dead		
16	855	14.9B	Checkered Keelba	Adult	Dead		
17	900	15.7B	Checkered Keelba	Juv	Dead		
18	900	15.9B	Checkered Keelba	Juv	Alive		
19	915	20.5B	Checkered Keelba	Juv	Alive		
20	920	21.6B	Vinesnake	Adult	Dead		
21	930	22.7B	Checkered Keelba	Juv	Dead		
22	935	23.8B	Checkered Keelba	Juv	Dead		
23	935	23.9B	Checkered Keelba	Juv	Dead		
24	940	24.7B	Yellow spotted wo	Adult	Dead		
25	942	25.6B	Checkered Keelba	Juv	Alive		
26	945	25.8B	Checkered Keelba	Juv	Alive		
27	947	25.9B	Checkered Keelba	Juv	Dead		
28	950	26.1B	Checkered Keelba	Juv	Dead		
29	1005	29.4B	Checkered Keelba	Adult	Dead		
30							
31							
32							
33	Date	Trip Data					



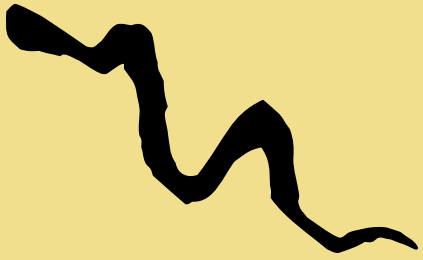
• Vinesnake

Image © 2009 GeoEye
Image © 2009 DigitalGlobe
© 2009 Google
© 2009 Cnes/Spot Image

©2009 Google

18°29'24.13" N 73°28'04.26" E elev 2257 ft

Eye alt 35720 ft



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