



НАМИКА



# Using science to understand and conserve an endangered carnivore

March 2013

Gregory Rasmussen

Research Director, Painted Dog Conservation

IUCN?SSC Canid Specialist Group

Wildlife Conservation Research Unit, Department of Zoology, University of Oxford  
South Parks Road, Oxford OX1 3PS, England

# The Painted Dog Is A Unique Canid With No Close Relatives

No two dogs have the  
same coat pattern

They only have four toes

They are not a true dog  
and stem from an ancient  
evolutionary line.





# Sociality

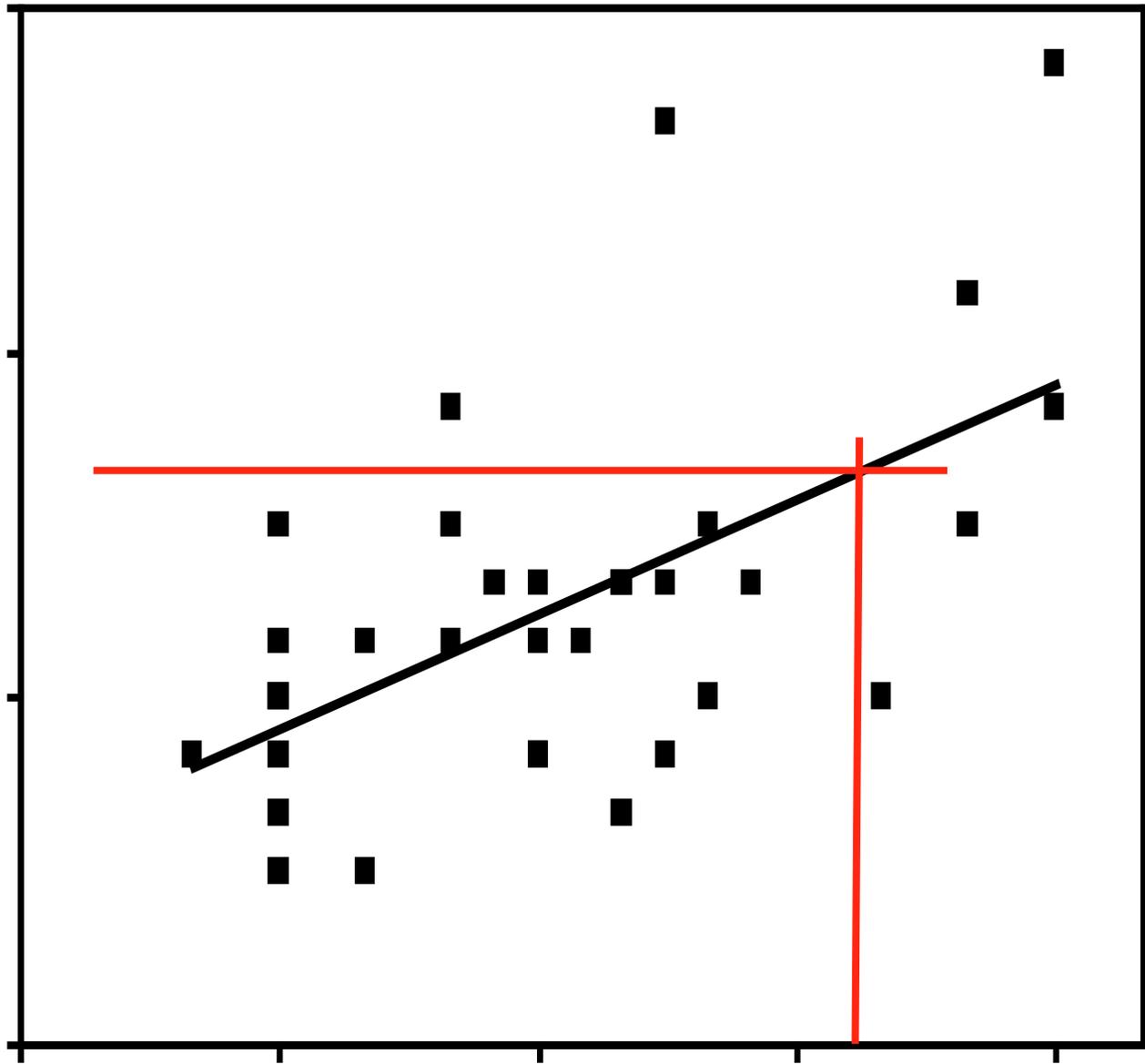




# Hunting Dogs







# Conflict With Other Predators



Only lions & hyaenas can kleptoparasitise painted dogs. In open areas food losses can be high. Thick bush however affords good cover with food losses being minimal

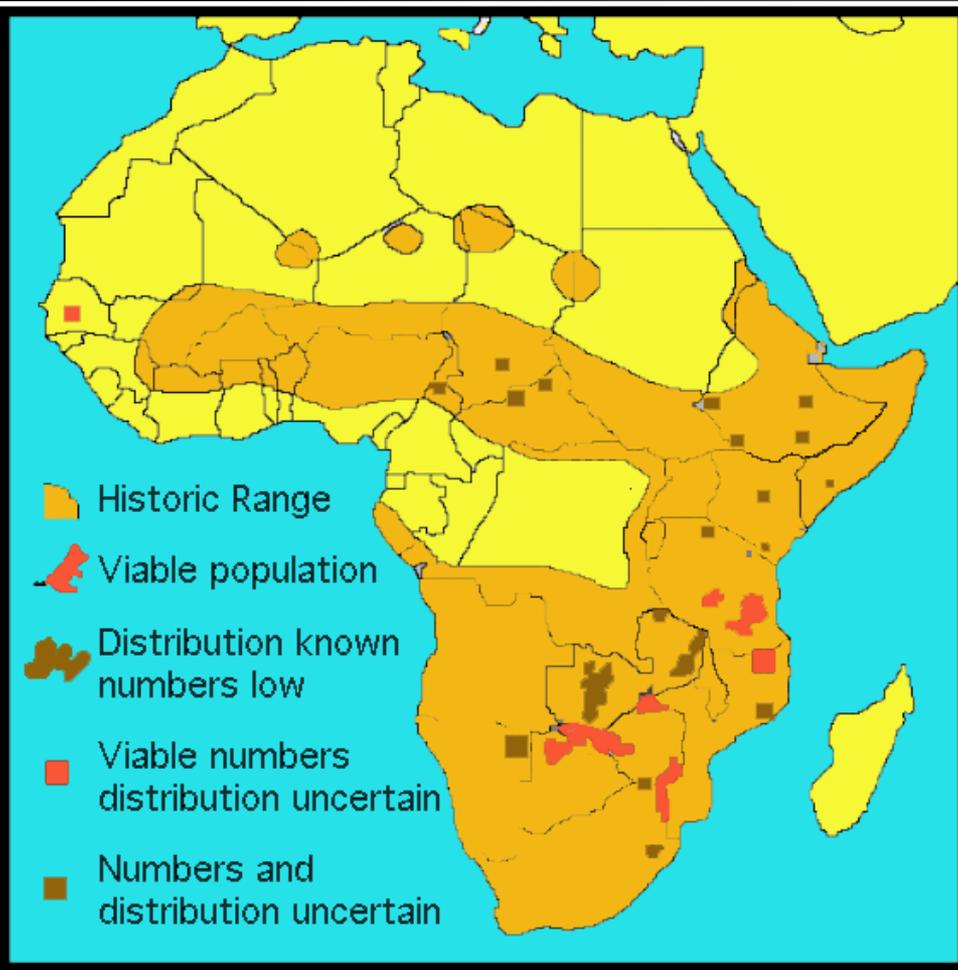


# Competition with other predators



# 100 Years Ago There Were Probably 500 000 Dogs. Today 5000 May Remain

Known Viable Populations In  
Zimbabwe, Tanzania, Botswana  
South Africa Account For 2500



Threats By Rank:

Snares

Ranchers

Cars

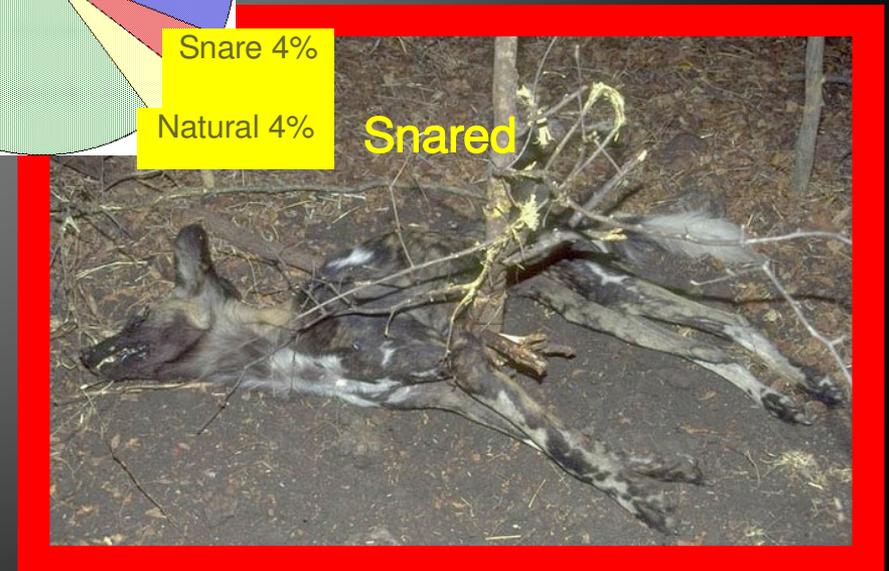
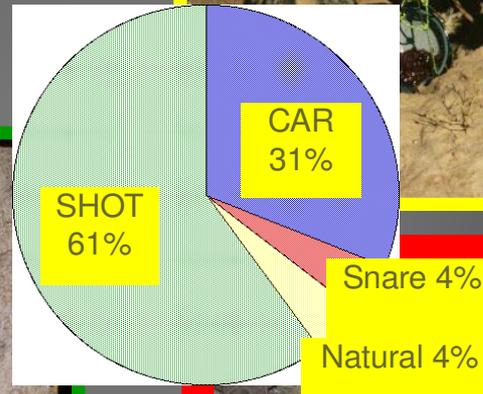
Negative attitude

Loss of quality habitat

Declining prey base Kleptoparasites  
(Lions/hyaenas)

Distribution and density of the  
Painted Dog *Lycaon pictus*

Mortality data for the Painted Hunting Dog *Lycaon pictus* at the boundary interface of Hwange national park Zimbabwe 1989-93

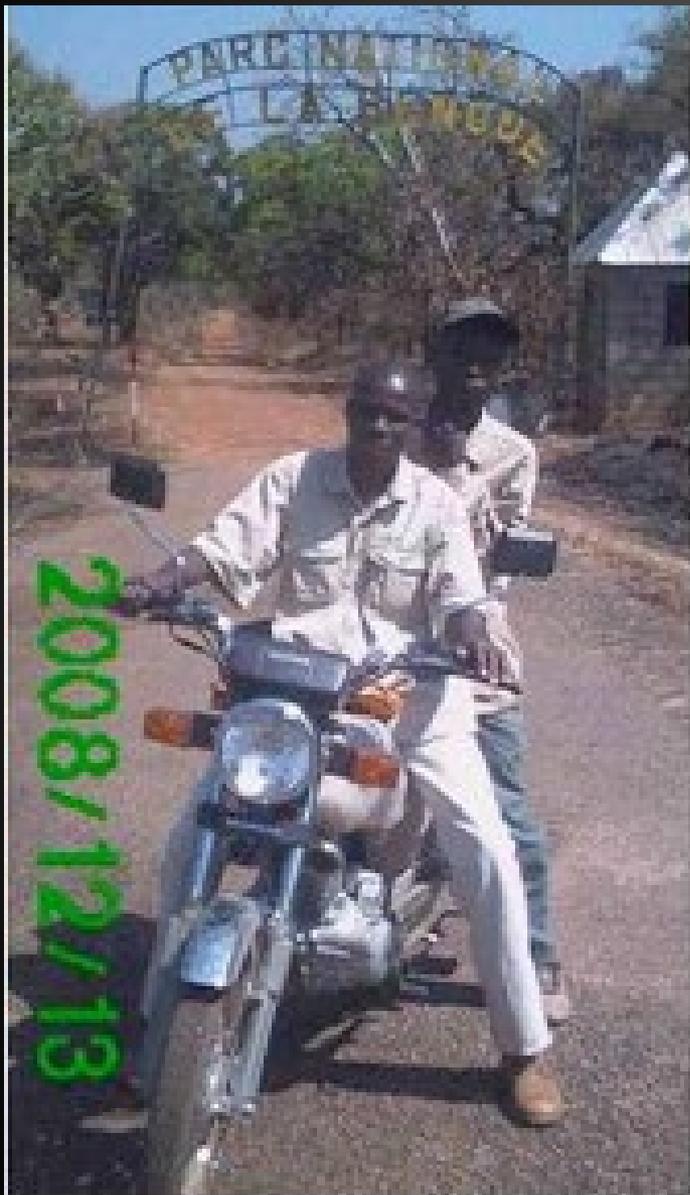


# Human perception was wrong

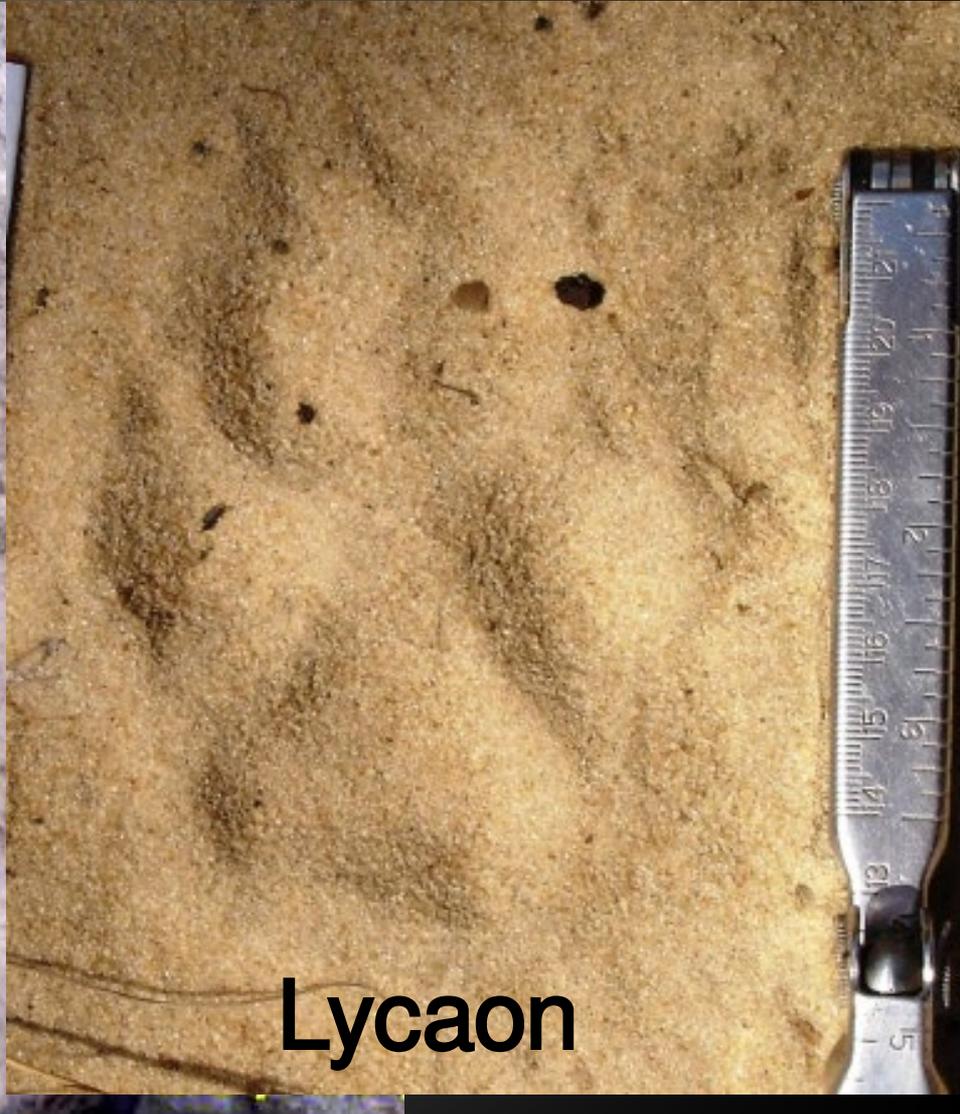


There are NO records of  
Painted Dogs ever attacking man in the wild

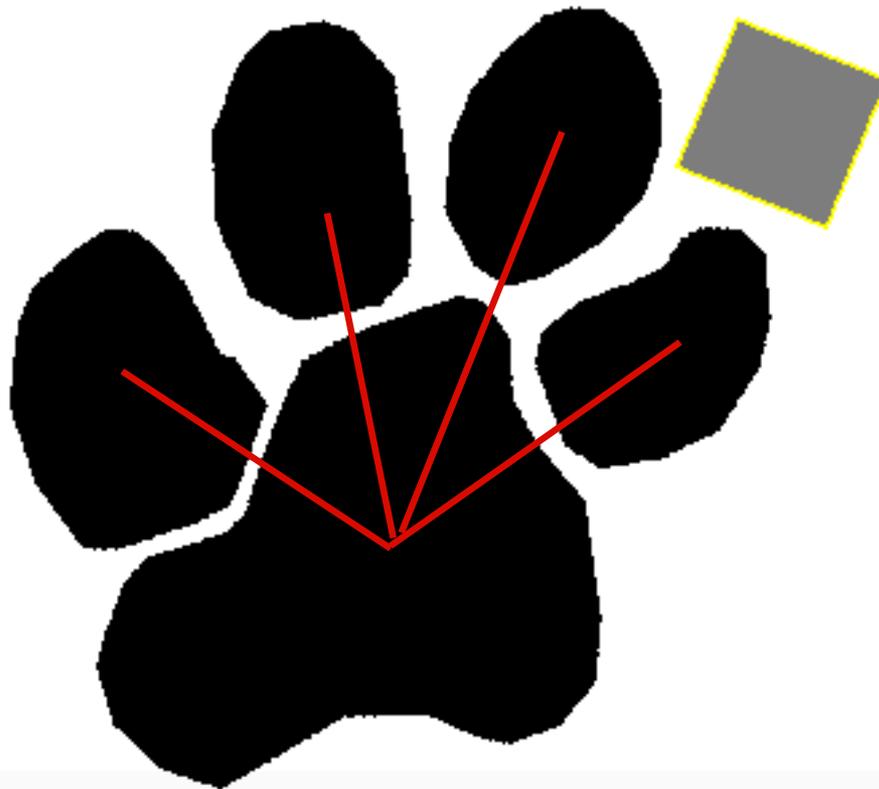
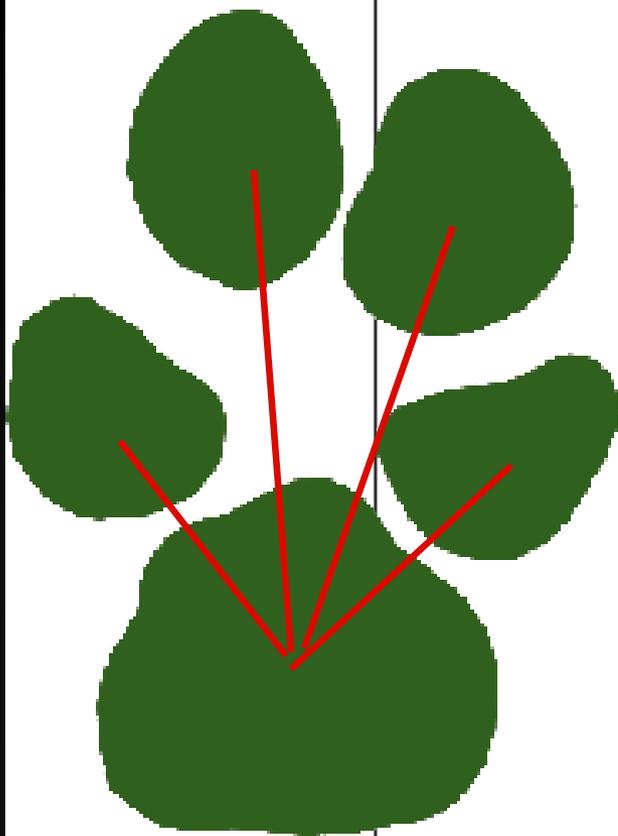
# Sharing Science



# COMPARING TRACKS



Lycaon



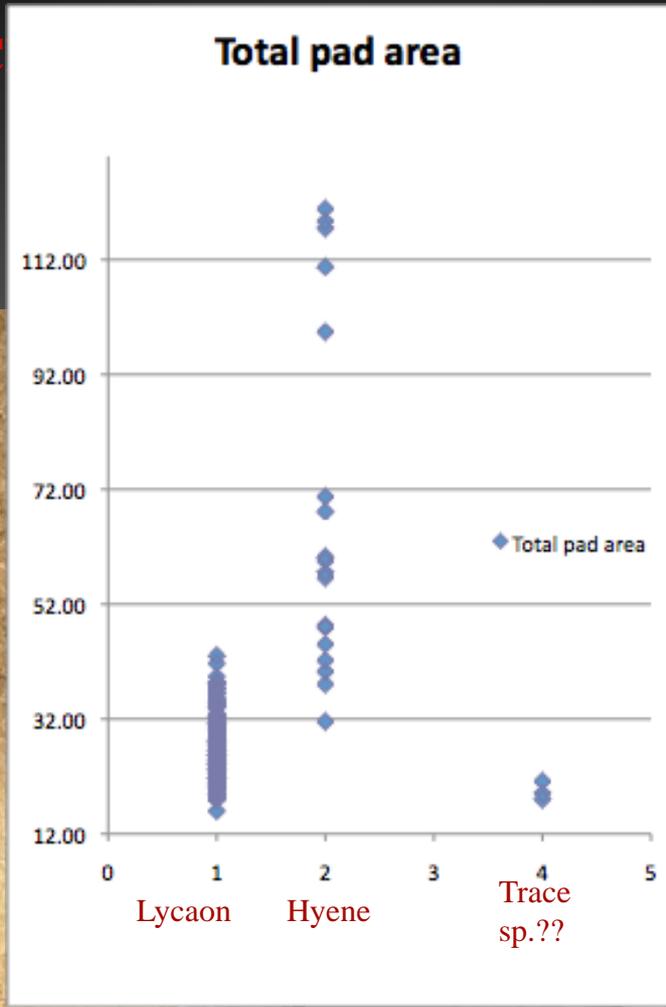
Results

	Area	X	Y	Perim.	Major	Minor	Angle	Circ.	Feret
1	86734	461.607	634.820	1362.227	386.516	285.714	38.626	0.587	427.987
2	32061	282.177	506.626	737.862	234.945	173.748	103.623	0.740	243.387
3	27053	419.977	338.758	691.536	229.796	149.894	94.287	0.711	227.879
4	24544	598.371	317.473	639.737	214.145	145.931	64.872	0.754	220.735
5	21454	677.052	473.325	639.235	203.649	134.133	43.131	0.660	209.275
6	14399	767.140	299.565	517.630	135.419	135.382	17.065	0.675	170.309

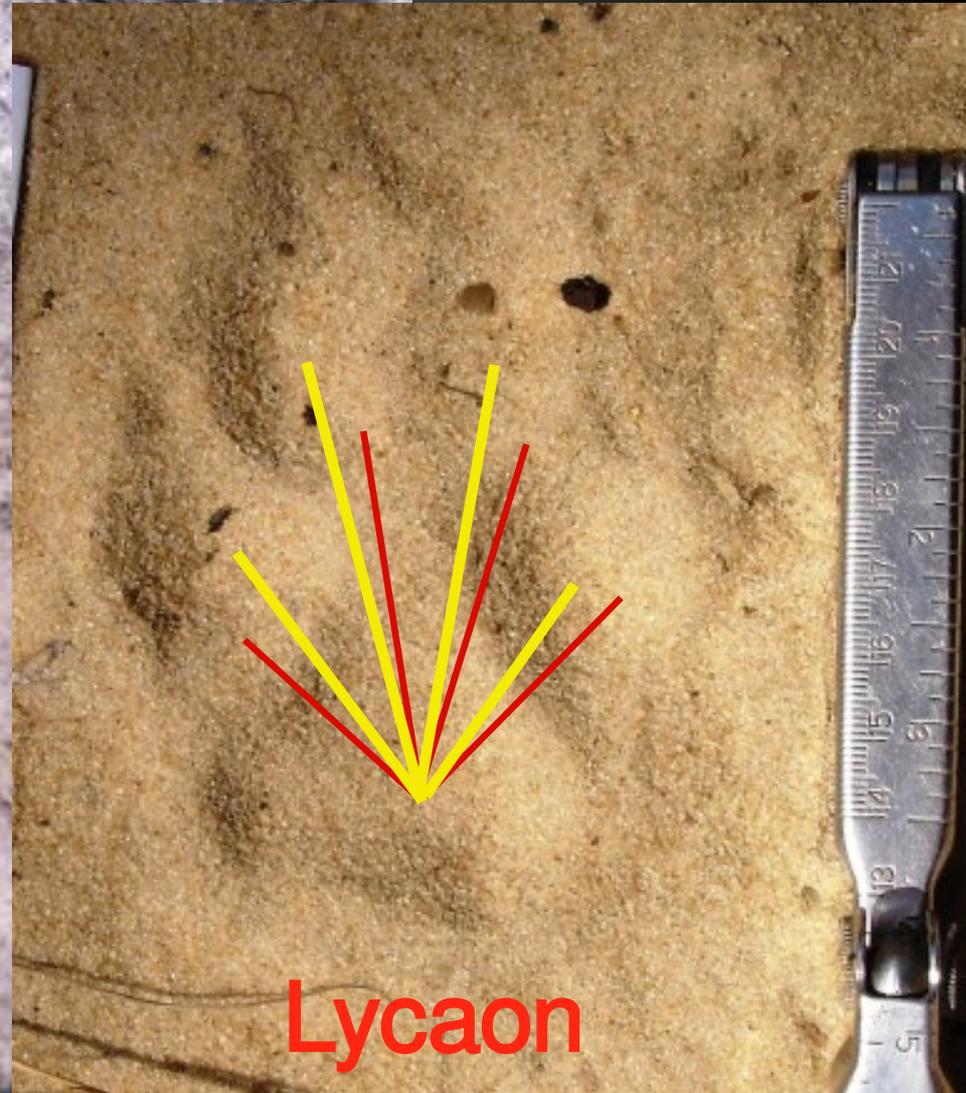
C



Lycaon



# Pad angle??







# Linking Coat patterns with DNA results

Date-first-seen → Time → Location →  
 15-Jul-05 → 8:00 → Umchibi →

LocX → Loc-Y → QDS → TOT+AD → YY → PP →  
 496700 → 7935000 → 1826D2 → 5 → 2 → 0 → 3 →

Pack → Pack-ID → Comments  
 → Umchibi → 1826D2P8D0705 → None



Name: Mango → Code:\*\*\*F1  
 D.O.B:??/?? → 1st Sighted:??/??

Name: Mango → Code:\*\*\*F1  
 D.O.B:??/?? → 1st Sighted:??/??

Name: Papillion → Code:\*\*\*Q4  
 D.O.B:??/?? → 1st Sighted:??/??

Name: Papillion → Code:\*\*\*Q4  
 D.O.B:??/?? → 1st Sighted:??/??



Name: Pita → Code:\*\*\*M2  
 D.O.B:??/?? → 1st Sighted:??/??

Name: Pita → Code:\*\*\*M2  
 D.O.B:??/?? → 1st Sighted:??/??

Name: Smokey → Code:\*\*\*M5  
 D.O.B:??/?? → 1st Sighted:??/??

Name: Smokey → Code:\*\*\*M5  
 D.O.B:??/?? → 1st Sighted:??/??



Name: Beans → Code:\*\*\*M3  
 D.O.B:??/?? → 1st Sighted:??/??

Name: Beans → Code:\*\*\*M3  
 D.O.B:??/?? → 1st Sighted:??/??

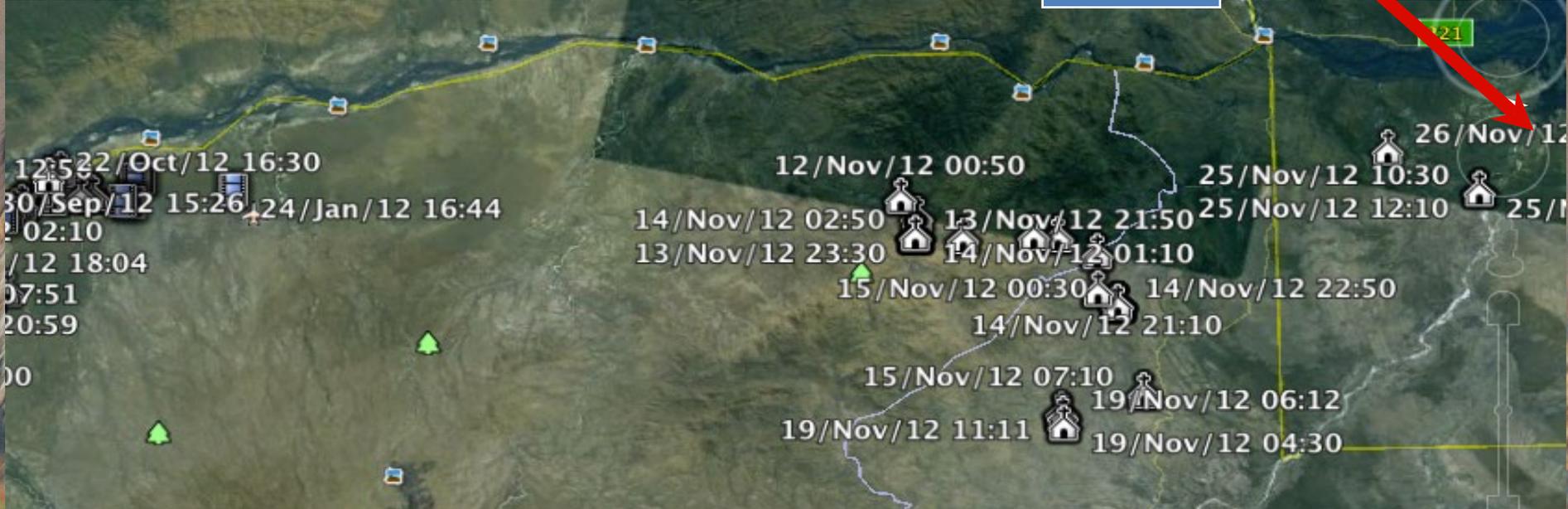
Name: Volcano → Code:\*\*\*Q6  
 D.O.B:??/?? → 1st Sighted:??/??

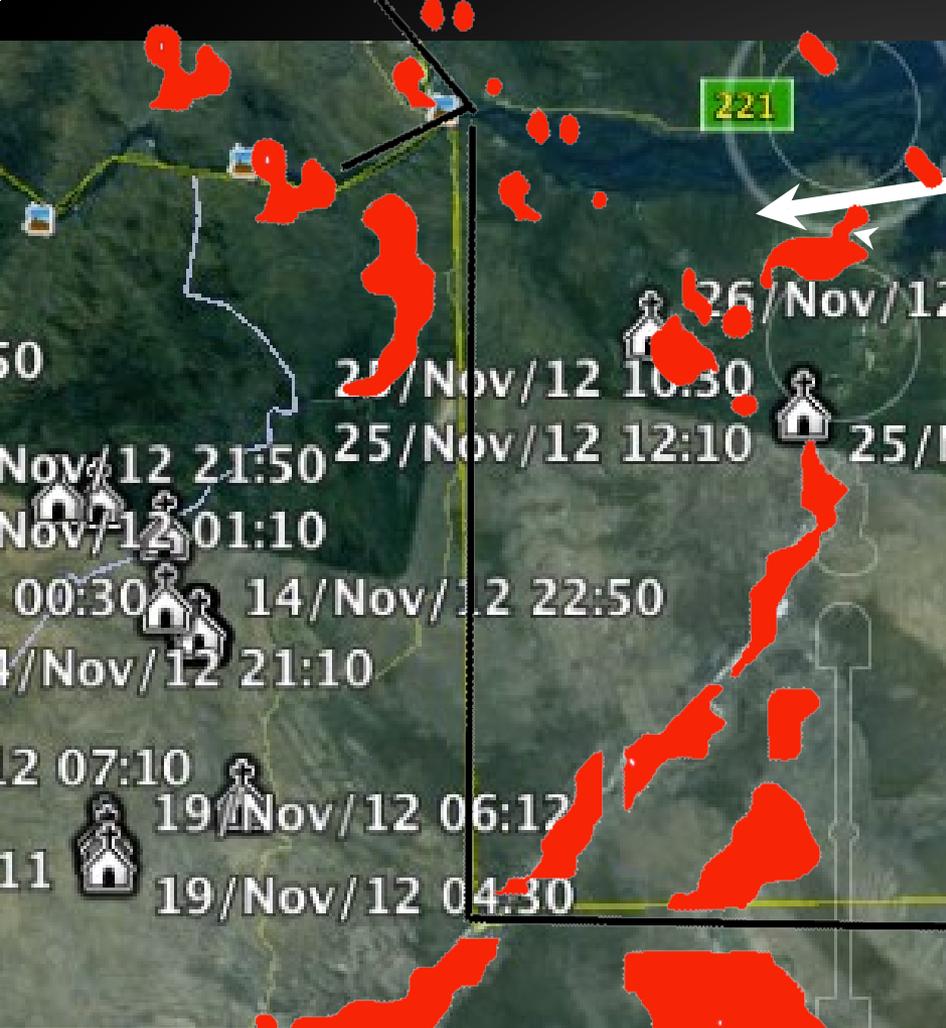
Name: Volcano → Code:\*\*\*Q6  
 D.O.B:??/?? → 1st Sighted:??/??





Cochise  
died HERE





Cochise died HERE



# Training And Development Of Local People



Visiting Vets

16 Men  
Employed:



12,000 +  
Snares  
Collected  
Since 2001

# Environmentally Friendly Crafts Centre



# Creating Art From Snares !





# Working together with children



# Working With Children

- Improved Perception Of Target Animal
- Increased Awareness Of Conservation
  - Co-Operation From Adults In Communities
  - Valuable Feedback For The Conservation Effort

😊😊 It's Fun 😊😊  
😊😊



30 Schools: 1200 Children  
Attend Per Annum.







# Fun experiential learning





Create Empathy





# Interpretive Centre



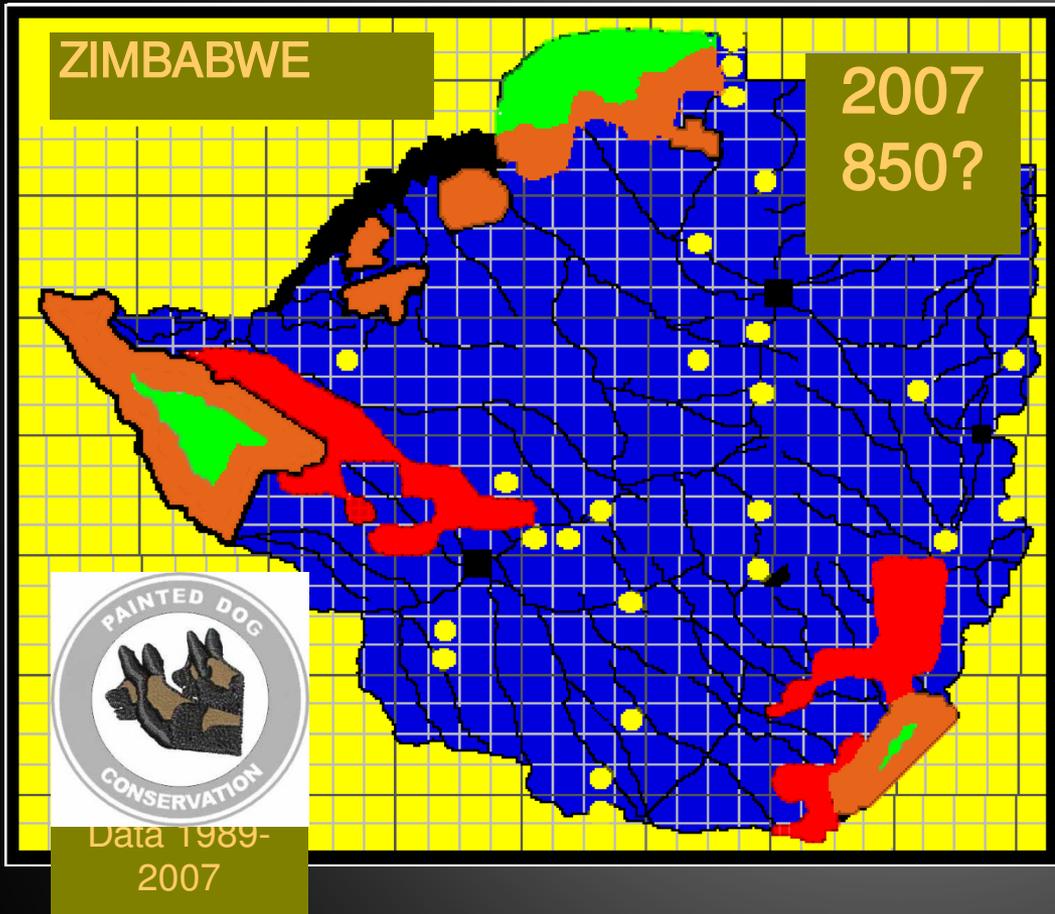




# Heading For A Brighter Future ?



# Population Dynamics In Zimbabwe 1989-2007



- Effective safe areas inside national parks
- New resident populations since 1993
- Sporadic sightings in the years 1994-99
- Unsafe areas for dogs inside National parks



**\*\*2004 Specially Protected Status Given To The Dogs\*\***

# Pups feeding



Thank You For Listening

