

Supplemental material for

“Avoidance or Coexistence? The Spatiotemporal Patterns of Wild Mammals in a Human-dominated Landscape in the Western Himalaya”, by Nimisha Srivastava, Ramesh Krishnamurthy, and Sambandam Sathyakumar, published in *Mountain Research and Development* 40(2), 2020. (See <https://bioone.org/toc/mred/40/2>)

Appendix S1: Criteria used to categorize habitat types described in the study area

Criteria used to categorize habitat types described in the study area were as follows:

Near settlement: Trails close to human settlements.

For present study, a mean distance of 10 m was kept from nearest house. These areas apart from having other anthropogenic food subsidies, also had small crop fields for vegetables which people sow for their personal use. Although there is no proper waste management, villagers segregate biodegradable (palatable) waste and either offer it to their livestock or use them as manure for crop fields. Hence anthropogenic food resource in terms of garbage was not clumped but an opportunistic factor of eatables thrown by people, children in particular, in nearby places.

Crop fields: Large agricultural lands, with or without crops. Camera traps were placed between the fields (distance from edge ranged from 50–300 m) and may or may not have cowsheds.

Mosaic: Camera trap locations with mosaic of agriculture and/or forest and/or settlements.

Fallow land: Abandoned crop fields or other modified areas that are taken over by successional scrub species such as *Berberis* sp., *Rubus* spp., *Lantana camara*, etc. and make it difficult for humans to negotiate. Information on such habitat was acquired by field assistants who were locals from nearby settlements. These scrublands were often in the fringes of settlements and/or crop fields.

Dry forest: Natural forests of chir pine (*Pinus roxburghii*) and/or Alder (*Alnus nepalensis*) with majority of ground substrate of sandy/rocky/gravelly. These also include degraded open forests and grasslands.

Moist forest: Natural forests of Oak (*Quercus leucotricophora*, *Q. glauca*, *Q. floribunda*) species, *Rhododendron* species, *Neolitsea pallens* and other sub-tropical trees with the majority of ground substrate being clayey to silt. Rocky and gravelly were also considered in moist forest if surrounding habitat had any of above mentioned forest types. For further analyses, we clumped some of these habitat types to natural and modified habitats.

Appendix S2: Supervised classification accuracy assessment report

CLASSIFICATION ACCURACY ASSESSMENT REPORT

Image File : g:/nimisha_gis/10-01-20/sup.img
 User Name : EBIRD
 Date : Mon Feb 17 21:06:18 2020

ERROR MATRIX

Classified Data	Reference Data			
	Unclassifi		Agricultur	
Unclassified	0	0	0	0
	0	0	0	0
Agricultural la	0	0	10	0
	0	0	0	0
Cropfields with	0	0	1	0
Barren land due	0	0	0	0
Disturbed fores	0	0	0	0
	0	0	0	0
	0	0	0	0
Forest	0	0	0	0
	0	0	0	0
	0	0	0	0
River	0	0	1	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
Settlements	0	0	0	0
Column Total	0	0	12	0

Classified Data	Reference Data			
	Cropfields	Barren lan	Disturbed	
Unclassified	0	0	0	0
	0	0	0	0
Agricultural la	0	2	1	0
	0	0	0	0
Cropfields with	1	1	0	0
Barren land due	0	2	0	0
Disturbed fores	0	0	4	0
	0	0	0	0
	0	0	0	0
Forest	0	0	0	0
	0	0	0	0
	0	0	0	0
River	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
Settlements	0	0	0	0
Column Total	1	5	5	0

Reference Data

Classified Data	Forest			
Unclassified	0	0	0	0
	0	0	0	0
Agricultural la	0	5	0	0
	0	0	0	0
Cropfields with	0	0	0	0
Barren land due	0	0	0	0
Disturbed fores	0	0	0	0
	0	0	0	0
	0	0	0	0
Forest	0	26	0	0
	0	0	0	0
	0	0	0	0
River	0	4	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
Settlements	0	0	0	0
Column Total	0	35	0	0

Reference Data

Classified Data	River			
Unclassified	0	0	0	0
	0	0	0	0
Agricultural la	0	0	0	0
	0	0	0	0
Cropfields with	0	0	0	0
Barren land due	0	0	0	0
Disturbed fores	0	0	0	0
	0	0	0	0
	0	0	0	0
Forest	0	0	0	0
	0	0	0	0
	0	0	0	0
River	1	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
Settlements	0	0	0	0
Column Total	1	0	0	0

Reference Data

Classified Data -----			Settlement	Row Total
Unclassified	0	0	0	0
	0	0	0	0
Agricultural la	0	0	0	18
	0	0	0	0
Cropfields with	0	0	0	3
Barren land due	0	0	0	2
Disturbed fores	0	0	0	4
	0	0	0	0
	0	0	0	0
Forest	0	0	0	26
	0	0	0	0
	0	0	0	0
River	0	0	0	6
	0	0	0	0
	0	0	0	0
	0	0	0	0
Settlements	0	0	1	1
Column Total	0	0	1	60

----- End of Error Matrix -----

ACCURACY TOTALS

Class Name -----	Reference Totals	Classified Totals	Number Correct	Producers Accuracy	Users Accuracy
Unclassified	0	0	0	---	---
	0	0	0	---	---
Agricultural la	12	18	10	83.33%	55.56%
	0	0	0	---	---
Cropfields with	1	3	1	100.00%	33.33%
Barren land due	5	2	2	40.00%	100.00%
Disturbed fores	5	4	4	80.00%	100.00%
	0	0	0	---	---
	0	0	0	---	---
Forest	35	26	26	74.29%	100.00%
	0	0	0	---	---
	0	0	0	---	---
River	1	6	1	100.00%	16.67%
	0	0	0	---	---
	0	0	0	---	---
	0	0	0	---	---
	0	0	0	---	---
Settlements	1	1	1	100.00%	100.00%
Totals	60	60	45		

Overall Classification Accuracy = 75.00%

----- End of Accuracy Totals -----

Appendix S3: Unsupervised classification accuracy assessment report

CLASSIFICATION ACCURACY ASSESSMENT REPORT

Image File : g:/nimisha_gis/10-01-20/unsup_15-01-20.img
 User Name : EBIRD
 Date : Mon Feb 17 20:25:55 2020

ERROR MATRIX

Classified Data	Reference Data			
	Unclassifi	Forest	Forest	Forest
Unclassified	0	0	0	0
Forest	0	11	0	0
Forest	0	0	16	0
Forest	0	0	0	10
Forest	0	0	0	1
Secondary growt	0	0	0	1
Secondary growt	0	0	0	0
Agriculture	0	0	0	1
Agriculture	0	0	0	0
Barren	0	0	0	0
Column Total	0	11	16	13

Classified Data	Reference Data			
	Forest	Secondary	Secondary	Agricultur
Unclassified	0	0	0	0
Forest	0	0	0	0
Forest	0	0	0	0
Forest	0	0	0	2
Forest	5	1	0	1
Secondary growt	2	1	1	1
Secondary growt	2	0	2	2
Agriculture	0	4	0	3
Agriculture	2	2	1	0
Barren	0	0	0	2
Column Total	11	8	4	11

Classified Data	Reference Data		Row Total
	Agricultur	Barren	
Unclassified	0	0	0
Forest	0	0	11
Forest	0	0	16
Forest	0	0	12
Forest	1	0	9
Secondary growt	0	0	6
Secondary growt	0	0	6
Agriculture	0	0	8
Agriculture	3	1	9
Barren	0	4	6
Column Total	4	5	83

