

## NOTICE BY SIKKIM BIODIVERSITY BOARD

The Sikkim Biodiversity Board under Forests, Environment and Wildlife Management Department, Government of Sikkim is in the process of finalizing the lists of threatened species of Flora and Fauna for Sikkim to be notified under Section 38 of the Indian Biological Diversity Act 2002 by the Ministry of Environment and Forests and Climate Change, Government of India. The same are being prepared by inputs from concerned Central and State Government agencies for public knowledge and comments from individuals and organizations familiar with the species. All are requested to send their comments / views on or before 05.09.2015 at [sbbsikkim@gmail.com](mailto:sbbsikkim@gmail.com). No comments / views shall be considered after the stipulated date.

The two draft lists of threatened plants and animals may be seen below.

### 1. DRAFT LIST OF THREATENED PLANT SPECIES IN SIKKIM

Compiled with inputs from Lalit K. Rai, S. Z. Lucksom, Usha Lachungpa, Bejoy Gurung, S. T. Lachungpa, Dr. M. Sanjappa, Dr. Tika Prasad Sharma, Dr. D. K. Pradhan, Dr. Shiva Kumar Sharma, Dr. Bharat Kumar Pradhan, Dr. B. S. Kholia, Dr. Avishek Bhattacharjee, Dr. D. K. Singh, Dr. Devendra Singh and Dr. Praveen Kumar Verma

Scientific Name	Remarks
<b>ACERACEAE</b>	
<i>Acer hookeri</i> var. <i>majus</i>	<i>Kapasey</i>
<i>Acer osmastonii</i>	<i>Kapasey</i> ; Only natural hybrid among the Indian Maples and is Endemic to Eastern Himalaya
<b>APIACEAE</b>	
<i>Pimpinella wallichii</i>	<i>Burnet Saxifrage</i> ; First collected in 1870 by Clarke and no sighting has been recorded till date
<i>Pternopetalum radiatum</i>	Endemic to eastern Himalaya; It has not been observed or collected since 1892
<b>ARACEAE</b>	
<i>Calamus inermis</i>	<i>Bet</i>
<b>ARALIACEAE</b>	
<i>Panax pseudoginseng</i>	<i>Ginseng / Magan</i>
<b>ASCLEPIADACEAE</b>	
<i>Ceropegia hookeri</i>	<i>Lantern flower</i>
<i>Ceropegia lucida</i>	<i>Lantern flower</i>
<b>ASTERACEAE</b>	
<i>Lactuca cooperi</i>	<i>Wild Lettuce</i> ; Endemic to Sikkim Himalaya
<b>BALANOPHORACEAE</b>	
<i>Rhopalocnemis phalloides</i>	
<b>BEGONIACEAE</b>	
<i>Begonia rubella</i>	

<i>Begonia satrapis</i>	
<i>Begonia scutata</i>	
<b>CARYOPHYLLACEAE</b>	
<i>Arenaria thangoensis</i>	Endemic to Sikkim; The taxon has not been sighted since its collection made in 1912
<b>CYCADACEAE</b>	
<i>Cycas pectinata</i>	<i>Thakal</i>
<b>CYPERACEAE</b>	
<i>Carex kingiana</i>	
<b>ERICACEAE</b>	
<i>Rhododendron baileyi</i>	<i>Bailey ko chimal</i>
<i>Rhododendron decipiens</i>	<i>Jhukaune chimal</i>
<i>Rhododendron griffithianum</i>	<i>Seto chimal</i>
<i>Rhododendron leptocarpum</i>	<i>Jhinophale gurans</i>
<i>Rhododendron maddenii</i>	<i>Major Madden's ko chimal</i>
<i>Rhododendron mekongense</i> var. <i>mekongense</i>	<i>Bhutley gurans</i> ; Recently explored from two locations in Sikkim
<i>Rhododendron niveum</i>	<i>Hiu patey gurans</i>
<i>Rhododendron pendulum</i>	<i>Jhundine chimal</i>
<i>Rhododendron pumilum</i>	<i>Purke gurans</i>
<i>Rhododendron sikkimense</i>	<i>Sikkimme gurans</i>
<i>Rhododendron thomsonii</i> var. <i>flocculosa</i>	<i>Thomson ko gurans</i>
<i>Rhododendron virgatum</i>	<i>Hanginae gurans</i>
<b>GENTIANACEAE</b>	
<i>Swertia chirayita</i>	<i>Chiraita / Chirowto</i>
<b>JUNCACEAE</b>	
<i>Juncus sikkimensis</i>	
<b>LILIACEAE</b>	
<i>Cardiocrinum giganteum</i>	
<i>Lloydia himalensis</i>	
<b>ORCHIDACEAE</b>	
<i>Aphyllorchis parviflora</i>	<i>Sunakhari</i>
<i>Calanthe alpina</i>	<i>Sunakhari</i>
<i>Calanthe mannii</i>	<i>Sunakhari</i>
<i>Coelogyne treutleri</i>	<i>Sunakhari</i>
<i>Cymbidium eburneum</i>	<i>Sunakhari</i>
<i>Cymbidium hookerianum</i>	<i>Sunakhari</i>
<i>Cymbidium whiteae</i>	<i>Sunakhari</i>
<i>Cypripedium elegans</i>	<i>Sunakhari</i>
<i>Cypripedium himalaicum</i>	<i>Sunakhari</i>

<i>Didiciea cunninghami</i>	<i>Sunakhari</i>
<i>Diplomeris hirsuta</i>	<i>Sunakhari</i>
<i>Paphiopedilum fairieanum</i>	<i>Sunakhari</i>
<i>Paphiopedilum venustum</i>	<i>Sunakhari</i>
<i>Anoectochilus roxburghii</i>	<i>Sunakhari</i>
<i>Cheirostylis griffithii</i>	<i>Sunakhari</i>
<i>Cheirostylis moniliformis</i>	<i>Sunakhari</i>
<i>Goodyera fumata</i>	<i>Sunakhari</i>
<i>Herpysma longicaulis</i>	<i>Sunakhari</i>
<i>Myrmechis bakhimensis</i>	<i>Sunakhari</i>
<i>Odontochilus clarkei</i>	<i>Sunakhari</i>
<i>Odontochilus crispus</i>	<i>Sunakhari</i>
<i>Odontochilus tortus</i>	<i>Sunakhari</i>
<i>Rhomboda lanceolata</i>	<i>Sunakhari</i>
<i>Rhomboda longifolia</i>	<i>Sunakhari</i>
<i>Zeuxine glandulosa</i>	<i>Sunakhari</i>
<i>Zeuxine reflexa</i>	<i>Sunakhari</i>
<b>POACEAE</b>	
<i>Sinarundinaria pantlingii</i>	<i>Rani malingo</i>
<i>Sinarundinaria microphylla</i>	<i>Deonigalo</i>
<b>PODOPHYLLACEAE</b>	
<i>Sinopodophyllum hexandrum</i>	<i>Panchpatay</i>
<b>POLYPODIACEAE</b>	
<i>Christiopteris tricuspis</i>	<i>Uniu/Fern</i>
<b>RANUNCULACEAE</b>	
<i>Aconitum ferox</i>	<i>Bikh</i>
<b>ROSACEAE</b>	
<i>Cotoneaster simonsii</i>	
<b>SCROPHULARIACEAE</b>	
<i>Picrorhiza kurrooa</i>	<i>Kutki</i>
<b>TAXACEAE</b>	
<i>Taxus wallichiana</i> var. <i>wallichiana</i>	<i>Dhengre salla</i>
<b>THELYPTERIDACEAE</b>	
<i>Thelypteris (Oreopteris) elwesii</i>	<i>Uniu/Fern</i>
<b>VALERIANACEAE</b>	
<i>Nardostachys grandiflora</i>	<i>Jatamansi</i>
<i>Valeriana hardwickii</i>	<i>Nakkali jatamansi</i>
<i>Valeriana jatamansi</i>	<i>Nakkali jatamansi</i>
<b>THREATENED LIVERWORTS AND MOSSES</b>	

<b>ACROBOLBACCEAE</b>	
<i>Acrobolbus ciliates</i>	Interesting plant collected after long interval from Sikkim
<b>CALYPOGEIACEAE</b>	
<i>Calypogeia aerugenosa</i>	
<b>LEJEUNEACEAE</b>	
<i>Cololejeunea tixieriana</i>	
<i>Lejeunea kashyapii</i>	
<i>Lejeunea mehrana</i>	Recently described as new species from Sikkim
<i>Lejeunea papilionacea</i>	Have recently been recorded for the first time in Indian bryoflora from Sikkim
<b>LEPIDOZIACEAE</b>	
<i>Kurzia tenerrima</i>	
<b>PLAGIOCHILACEAE</b>	
<i>Plagiochila himalayana</i>	
<b>METZGERIACEAE</b>	
<i>Metzgeria conjugata</i>	Have recently been recorded for the first time in Indian bryoflora from Sikkim
<i>Metzgeria macrospor</i>	
<b>THREATENED BRYOPHYTES (as per The 2000 IUCN World Red List of Bryophytes)</b>	
<b>CYATHODIACEAE</b>	
<i>Cyathodium acrotichum</i>	Supposedly an endemic species
<b>HAPLOMITRIACEAE</b>	
<i>Haplomitrium blumii</i>	
<i>Haplomitrium hookeri</i>	
<b>JUNGERMANNIACEAE</b>	
<i>Diplocolea sikkimensis</i> A	Known from two localities in India (Sikkim) and one in Nepal
<b>TAKAKIACEAE</b>	
<i>Takakia ceratophylla</i>	

2A. DRAFT LIST OF THREATENED WILD ANIMALS IN SIKKIM (AS PER THE IUCN RED LIST VERSION 2014.3); Compiled with help of local and WII Dehradun experts

CR (Critical), EN (Endangered), VU (Vulnerable), NT (Near threatened), LC (Least Concern)

Class	Common name	Scientific Name	IUCN status				
			CR	EN	VU	NT	LC
Mammals							
1	Dhole	Cuon alpinus		EN			
2	Snow leopard	Panthera uncia		EN			
3	Alpine musk deer	Moschus chrysogaster		EN			

4	Himalayan musk deer	Moschus leucogaster		EN			
5	Black musk deer	Moschus fuscus		EN			
6	Asiatic black bear	Ursus thibetanus			VU		
7	Red panda	Ailurus fulgens			VU		
8	Marbled cat	Pardofelis marmorata			VU		
9	Clouded leopard	Neofelis nebulosa			VU		
10	Binturong	Arctictis binturong			VU		
11	Eurasian otter	Lutra lutra				NT	
12	Asiatic golden cat	Catopuma temminckii				NT	
13	Pallas's Cat	Otocolobus manul				NT	
14	Common leopard	Panthera pardus				NT	
15	Himalayan goral	Naemorhedus goral				NT	
16	Himalayan serow	Capricornis thar				NT	
17	Tibetan Argali	Ovis ammon				NT	
18	Tibetan gazelle	Procapra picticaudata				NT	
19	Large Indian civet	Viverra zibetha				NT	
20	Pale weasel	Mustela altaica				NT	
21	Assamese macaque	Macaca assamensis				NT	
22	Himalayan Tahr	Hemitragus jemlahicus				NT	
23	Takin	Budorcas taxicolor			VU		
24	Gaur	Bos gaurus			VU		
<b>Birds</b>							
1	Red-headed vulture	Sarcogyps calvus	CR				
2	White-rumped vulture	Gyps bengalensis	CR				
3	Baer's pochard	Aythya baeri	CR				
4	Beautiful nuthatch	Sitta formosa			VU		
5	Black-necked crane	Grus nigricollis			VU		
6	Chestnut-breasted Partridge	Arborophila mandellii			VU		
7	Greater Spotted Eagle	Aquila clanga			VU		
8	Grey-crowned Prinia	Prinia cinereocapilla			VU		
9	Hodgson's Bushchat	Saxicola insignis			VU		
10	Lesser Kestrel	Falco naumanni			VU		
11	Palla's Fish Eagle	Haliaeetus leucoryphus			VU		
12	Rufous-necked Hornbill	Aceros nipalensis			VU		
13	Slender-billed Babbler	Turdoides longirostris			VU		
14	Wood Snipe	Gallinago nemoricola			VU		
15	Blyth's Kingfisher	Alcedo hercules				NT	
16	Cinereous Vulture	Aegypius monachus				NT	
17	Firethroat	Luscinia pectardens				NT	
18	Giant Babax	Babax waddelli				NT	
19	Great Hornbill	Buceros bicornis				NT	
20	Rufous-throated Wrenbabbler	Spelaeornis caudatus				NT	
21	Rusty-bellied Shortwing	Brachypteryx hyperythra				NT	
22	Satyr Tragopan	Tragopan satyra				NT	
23	Ward's Trogon	Harpactes wardii				NT	
24	Yellow-rumped Honeyguide	Indicator xanthonotus				NT	
<b>Reptiles</b>							

1	King Cobra	<i>Ophiophagus hannah</i>			VU		
2	Burmese Python	<i>Python bivittatus</i>			VU		
3	Walnut Kukri Snake	<i>Oligodon juglandifer</i>			VU		
4	Sikkimese Bent-toed Gecko	<i>Cyrtodactylus gubernatoris</i>				NT	
Amphibians							
	Sikkim Snow Toad	<i>Scutiger sikkimensis</i>					LC
Fishes							
1	Golden mahseer	<i>Tor putitora</i>		EN			
2	Common snow trout	<i>Schizothorax richardsonii</i>			VU		
3	Indian mottled eel	<i>Anguilla bengalensis</i>				NT	
4	Goonch	<i>Bagarius bagarius</i>				NT	
5	Gray's stone loach	<i>Balitora brucei</i>				NT	
6	Pangusia labeo	<i>Labeo pangusia</i>				NT	
7	Saddleback loach	<i>Schistura devdevi</i>				NT	
Butterfly							
1	Kaiser-i-hind	<i>Teinopalpus imperialis</i>				NT	
Dragonfly							
1	Relict Himalayan Dragonfly	<i>Epiophlebia laidlawi</i>				NT	

## 2B. LIST OF THREATENED DOMESTICATED ANIMALS IN SIKKIM

Considered highly threatened in Sikkim by AHLF&VS Dept and Foresters

Domesticated Animals							
1	Siri Cattle	<i>Bos indicus</i>					
2	Yak	<i>Bos grunniens</i>					
3	Banpala Sheep, Tibetan Highland Sheep	<i>Ovis aries</i>					
4	Tibetan Mastiff	<i>Canis lupus familiaris</i>					