Myanmar National Red List
Training and Assessment Workshop
Royal Naypyitaw Hotel
15-18 January 2019

Background

The Myanmar National Biodiversity Strategy and Action Plan 2015-2020 includes Target 12.3 "By 2020, a National Red List of selected taxa has been produced" and Actions 12.3.1 "Conduct Red List assessments for key taxa, with a particular focus on endemic species" and 12.3.2 "Hold training workshops to build capacity on application of the Red List categories and criteria".

In July 2017, in partnership with the Ministry of Natural Resources and Environmental Conservation's (MONREC's) Nature and Wildlife Conservation Division (NWCD), WCS Myanmar, and WWF Myanmar, IUCN organized a 5-day Red List Assessor training workshop at the Forest Research Institute (FRI), Yezin, near Naypyitaw. 30 participants attended, representing organizations including the Myanmar Forest Department, WCS, WWF, FFI, Instituto Oikos, Myanmar Floriculturalist Association, Taunggyi University, Yangon University, Mandalay University, and Myitkyinar University.

In addition to building national capacity in use of the Red List Categories and Criteria, this event was intended to initiate the process of developing a Myanmar National Red List. It was followed by the formal establishment of five National Red List Working Groups – focusing on mammals, birds, reptiles and amphibians, plants, and aquatic species, approved by the MONREC Minister.

In July 2018, IUCN facilitated a second Red List workshop at FRI, Naypyitaw, again in partnership with NWCD, WCS Myanmar, and WWF Myanmar. This event consisted of three days of Red List Assessor training for 69 members of the Myanmar National Red List Working Groups (23-25 July), followed by two days of conducting national-level assessments of 71 reptile species with seven members of the Myanmar National Red List Reptiles and Amphibians Working Group (26-27 July). This event also included a parallel session on the 26 July discussing potential amendments to the list of species protected under Myanmar's 2018 Biodiversity Law.

In January 2019, IUCN continued to support the development of a Myanmar National Red List by facilitating a third Red List workshop in Naypyitaw, again in partnership with NWCD, WCS Myanmar, and WWF Myanmar. This event took place at the Royal Naypyitaw Hotel, and consisted of a one-day Red List refresher training (15 January), and three days of conducting national-level assessments of mammal species with 34 members of the Myanmar National Red List Mammals Working Group (16-18 January).

Red List Training

A total of 34 participants received a one-day refresher training in application of the IUCN Red List Categories and Criteria. This was considered sufficient training, as most of the participants had previously participated in at least one of the previous 2017 and 2018 Red List training workshops. These trainees were members of the Myanmar National Red List Mammals Working Group, and represented organizations including NWCD, FRI, WCS, WWF, FFI, Oikos, BANCA, Myitkyina University, Magway University, Kengtung University, Yangon University, and West Yangon University. Please see Annex 1 for a list of participants.

The training was delivered by James Tallant (independent consultant) and Monika Böhm (Research Fellow, Zoological Society of London), both qualified IUCN Red List trainers with extensive experience delivering Red List training and supporting National Red List processes. The training consisted of a very condensed version of the standard IUCN Red List training curriculum, covering topics including:
- introduction to the Red List;
- the process of conducting a Red List assessment;
- key terms and concepts;
- the nine Red List categories;
- the five Red List criteria and their application at the global level; and
- applying the Red List categories and criteria to national contexts.

By the end of the training, all participants had practiced applying the IUCN Red List Categories and Criteria to example case studies. Inevitably, some gaps in knowledge and understanding remained, many of which the trainers were able to address during the remaining three days of the workshop, alongside the national assessments.

National Red List Assessments

34 members of the Myanmar National Red List Mammals Working Group spent three days conducting national-level assessments of mammal species, with the two Red List trainers available to answer questions, explain Red List concepts and terminology, provide advice, and review draft assessments.

By the end of the workshop, a total of 43 draft assessments had been completed, including 11 species of primates, 10 species of carnivores, 10 species of bats, and 4 species of rodents. These 43 draft assessments constitute a significant proportion of the approximately 320 species of mammals found in Myanmar (of which 99 are bat species and 73 are rodent species). These draft assessments have been reviewed and edited (for language, clarity, etc.) by the Red List trainers, and submitted to the Working Group and workshop organizers. Please see Annex 2 for a summary of the draft results.

In order to complete a Myanmar National Red List of Mammals, the following steps need to be completed:
- finalize draft assessments started during the assessment workshop, completing any missing sections of the assessment forms;
- complete distribution maps for all assessments conducted during the workshop (some have already been started);
- compare the list of completed mammal assessments with the list of all mammal species found in Myanmar, and identify priorities for assessment;
- draft assessments (including distribution maps) for mammal species not assessed during the workshop – this could be done by experts in their own time, or at a future assessment workshop;
- arrange for all draft assessments to be reviewed by suitable experts, to confirm that important data has not been overlooked, and that the Red List Categories and Criteria have been applied correctly;
- finalize assessments based on the reviewers' input; and
- publish final assessments in a suitable format (online, via a mobile app, and/or as a pdf or physical publication).

In order to complete a comprehensive Myanmar National Red List of all major groups, the following steps are recommended:
- complete the Myanmar National Red List of Reptiles (started during the 2018 workshop);
- complete the Myanmar National Red List of Mammals (see above);
- consider increasing national capacity for Red Listing by arranging for one or more Myanmar nationals to be trained as IUCN Red List trainers by the IUCN Red List Unit;
- choose the next priority species group for assessment, and confirm the list of taxa to be assessed;
- compile all available data on taxa to be assessed, populate assessment forms with background information, and draft distribution maps prior to the assessment workshop (this will greatly increase the number of assessments that can be completed during an assessment workshop);
- organize multi-day assessment workshop, accompanied by refresher (1-day) training; and
- produce draft assessments, review, finalize, and publish.

Annex 1. List of Participants

No.	Name	Organization
1	U Win Naing Thaw	NWCD
2	Dr. Khin Maung Swe	Expert
3	Dr. Su Su	Expert
4	Ms. Monika Bohm	IUCN
5	Mr. James Tallant	IUCN
6	Mr. Robert Tizard	WCS
7	Mark Grindely	FFI
8	Dr. Aye Mi San	Yangon University
9	Dr. Thidar Oo	West Yangon University
10	Daw Aye Yu San	Magway University
11	U Maw Hpaw Bwe	Myitkyina University
12	Dr. Aung Lu	Myitkyina University
13	Dr. Moe Moe Khaing	Kengtung University
14	Dr. Aye Aye Khaing	Pakokku University
15	Dr. Myint Myint Than	Mohnyin Degree College
16	Daw Khin Mar Myint	FRI
17	U Ngwe Lwin	FFI
18	Dr. Myint Thein	Htoo Zoo & Gardens. Business Unit
19	U Myo Min Tun	BANCA
20	Daw Khing Swe War	BANCA
21	Daw Marget Nyein Nyein Myint	WWF
22	U Toe Tet Zaya	OIKOS
23	U Hla Naing	WCS
24	Dr. Naw May Lay Thant	WCS
25	U Than Zaw	WCS
26	U Nyan Hlaing	WCS
27	U Aung Htet Oo	WCS
28	U Htet Akar Aung	WCS
29	U Aung Ye Htun	WCS
30	U Zarni Aung	WCS
31	U Min Hein Htike	WCS
32	U Kyaw Khaung Thant Zin	WCS
33	U Ye Lin Aung	WCS
34	U Htet Wai Aung	WCS
35	Daw Theint Thandar Bol	WCS
36	Daw Hayman Yanaye	WCS

Annex 2 Summary of Draft Results

	Order	Suborder	Family	Genus and Species	Common Name (ENG)	Global RL Status	Draft National RL Status
1.			Hylobatidae (gibbons)	Hoolock hoolock	Western hoolock gibbon	EN	EN
2.				Hoolock leuconedys	Eastern hoolock gibbon	VU	VU
3.				Hoolock tianxing	Skywalker hoolock gibbon	-	EN
4.				Hylobates lar entelloides	Lar gibbon	EN	EN
5.			Cercopithecidae (Old World monkeys)	Trachypithecus phayrei phayrei	Phayre's langur	EN	EN
6.				Trachypithecus shortridgei	Shortridge's langur	EN	EN
7.	Primates	Haplorhini		Trachypithecus barbei	Tenasserim lutung	DD	VU
8.				Trachypithecus obscurus flavicauda	Dusky Langur	NT	EN
9.				Rhinopithecus strykeri	Myanmar Snub-nosed Monkey	CR	CR
10.				Macaca fascicularis aurea	Burmese long-tailed macaque, Crab-eating macaque	LC	VU
11.				Macaca mulatta	Rhesus Macaque	LC	LC
12.			Pteropodidae (fruit bats)	Rousettus leschenaultii	Lechenault's rousette	LC	NT
13.				Cynopterus sphinx	Greater short-nosed fruit bat	LC	NT
14.				Cynopterus brachyotis	Lesser short-nosed fruit bat	LC	VU
15.				Eonycteris spelaea	Dawn bat	LC	LC
16.		Yinpterochiroptera		Macroglossus sobrinus	Long-tongued fruit bat	LC	EN
17.	Chiroptera		Craseonycteridae	Craseonycteris thonglongyai	Kitti's hog-nosed bat	VU	VU
18.			Hipposideridae (Old World leaf-nosed bats)	Hipposideros armiger	Great roundleaf bat	LC	LC
19.				Hipposideros lylei	Shield-faced roundleaf bat	LC	VU
20.				Hipposideros larvatus	Intermediate roundleaf bat	LC	LC
21.		Yangochiroptera	Molossidae (free-tailed bats)	Tadarida (Chaerephon) plicata	Wrinkle-lipped free-tailed bat	LC	LC
22.				Panthera tigris	Tiger	EN	CR
23.				Panthera pardus	Leopard	VU	VU
24.				Neofelis nebulosa	Clouded leopard	VU	NT
25.		Feliformia	Felidae (Cats)	Catopuma temminckii	Asian golden cat	NT	NT
26.	Carnivora			Pardofelis marmorata	Marbled cat	NT	NT
27.				Prionailurus viverrinus	Fishing cat	VU	EN
28.				Prionailurus bengalensis	Leopard cat	LC	LC
29.				Felis chaus	Jungle cat	LC	LC
30.		Caniformia	Ursidae	Ursus thibetanus	Asian black bear	VU	VU
31.				Helarctos malayanus	Sun bear	VU	VU
32.			Tragulidae (Chevrotains)	Tragulus kanchil	Lesser mouse-deer	LC	NT
33.	Artiodactyla	Ruminantia	Bovidae (Bovids)	Bos gaurus	Gaur	VU	VU
34.				Bos javanicus	Banteng	EN	EN
35.			Cervidae (Deer)	Rucervus eldii	Eld's deer	EN	EN
36.	Perissodactyla	Ceratomorpha	Tapiridae (Tapirs)	Tapirus indicus	Malayan tapir	EN	EN
37.	Proboscidea	-	Elephantidae (Elephants)	Elephas maximus	Asian elephant	EN	EN

38.	Rodentia	Myomorpha	Muridae (Mice and Rats)	Bandicota indica	Greater bandicoot rat	LC	LC
39.				Bandicota savilei	Savile's bandicoot rat	LC	LC
40.				Mus cervicolor	Fawn-colored mouse	LC	LC
41.				Mus caroli	Ryukyu mouse	LC	LC
42.	Eulipotyphla	-	Soricidae (Shrews)	Chimarrogale styani	Chinese water shrew	LC	LC
43.	Scandentia	-	Tupaiidae (Treeshrews)	Tupaia belangeri	Northern treeshrew	LC	LC

Annex 3. Workshop Agenda

Day 1: Tuesday 15th January 2019
Refresher Training

Time	Event	Trainer/ Speakers
08:30	**Registration**	
09:00	*Session 1:* **Welcome and Introduction to the Workshop**	Red List Trainer 1&2
09:30	*Session 2:* **From Raw Data to Red List: the IUCN Red List Assessment Process**	Red List Trainer 1
10:00	*Session 3:* **Key Terms and Concepts used in the Red List Criteria**	Red List Trainer 2
10:30	**Coffee Break & Group Photo**	
11:00	*Session 4:* **Red List Categories, Data Quality & Uncertainty**	Red List Trainer 1
11:45	*Session 5:* **Red List Criteria: criterion A**	Red List Trainer 2
12:30	**Lunch**	
13:30	*Session 6:* **Red List Criteria: criterion B**	Red List Trainer 1
14:30	*Session 7:* **Red List Criteria: criteria C, D & E**	Red List Trainer 2
15:30	**Coffee break**	
16:00	*Session 8:* **Selecting the Final Red List Category & Criteria**	Red List Trainer 1
16:30	*Session 9:* **Using the Red List Criteria for regional and national Red Lists**	Red List Trainer 2
16:55	**Wrap-up, Discussion and Reflections on the Day**	Red List Trainer 1 & 2
17:00	**End of Day 1**	

Day 2: Wednesday 16th January 2019
National Assessments

Time	Event	Trainer/ Speakers
09:00	**Introduction to the day & question from the day before**	Red List Trainer 1 & 2
09:30	Conduct National Assessments Session 1.	Participants

Time	Event	
10:30	**Coffee Break**	
11:00	Conduct National Assessments Session 2.	Participants
12:00	**Lunch**	
13:00	Conduct National Assessments Session 3.	Participants
15:00	**Coffee Break**	
15:30	Conduct National Assessments Session 4.	Participants
17:00	**Wrap-up, Discussion and Reflections on the Day**	Red List Trainer 1 & 2
17:10	**End of Day 2**	

Day 3: Thursday 17th January 2019
National Assessments

Time	Event	Trainer/ Speakers
09:00	**Introduction to the day & question from the day before**	Red List Trainer 1 & 2
09:30	Conduct National Assessments Session 5.	Participants
10:30	**Coffee Break**	
11:00	Conduct National Assessments Session 6.	Participants
12:00	**Lunch**	
13:00	Conduct National Assessments Session 7.	Participants
15:00	**Coffee Break**	
15:30	Conduct National Assessments Session 8.	Participants
16:00	**Wrap-up, Discussion and Reflections on the Day**	Red List Trainer 1 & 2
17:00	**End of Day 3**	

Day 4: Friday 18th January 2019
National Assessments

Time	Event	Trainer/ Speakers
	National Red List Assessments	
09:00	**Introduction to the day & question from the day before**	Red List Trainer 1 & 2
09:30	Conduct National Assessments Session 9.	Participants
10:30	**Coffee Break**	
11:00	Conduct National Assessments Session 10.	Participants

12:00	**Lunch**	
13:00	Conduct National Assessments Session 11.	Participants
15:00	**Coffee Break**	
15:30	Discussion: Next steps in work-plan	Participants, Trainer 1 & 2
16:30	Wrap Up Assessment Workshop	Participants, Trainer 1 & 2
17:00	**End of Day 4**	