Diversity and conservation potential of captive chelonian colonies at temple ponds in north-east India
GAURAV BARHADIYA, SHAILENDRA SINGH, CHIRASHREE GHOSH, RAJEEV BASUMATARY, JAYADITYA PURKAYASTHA

Table – Species of tortoise and freshwater turtle known in north-east India
Abbreviations: IUCN - International Union for Conservation of Nature, EN – Endangered, EW - Extinct in the wild, LC - Least concern, NE - Not evaluated, NT - Near threatened, VU – Vulnerable. CITES - The Convention on International Trade in Endangered Species of Wild Fauna and Flora. WPA - Wild Life Protection Act (1972) India, NL - Not Listed; Sc – Schedule I to IV

| Family          | Common Name        | Scientific Name (Authority)                                      | IUCN | CITES | WPA | Source                                      |
|-----------------|--------------------|-----------------------------------------------------------------|------|-------|-----|---------------------------------------------|
| Geomydidae      | South asian box turtle | *Cuora amboinensis* (Daudin, 1802)                             | VU   | II    | NL  | Basumatary & Sharma, 2013                  |
| Geomydidae      | Keeled box turtle  | *Cuora mouhotii* (Gray, 1862)                                  | EN   | II    | NL  | Ahmed et al., 2009                         |
| Geomydidae      | Asian leaf turtle  | *Cyclenys gemeli* (Fritz, Guicking, Auer, Sommer, Wink & Hundsdörfer, 2009) | NE   | II    | NL  | Ahmed et al., 2009; Basumatary & Sharma, 2013 |
| Geomydidae      | Spotted pond turtle | *Geoclemys hamiltonii* (Gray, 1831)                            | EN   | I     | Sc I | Ahmed et al., 2009; Basumatary & Sharma, 2013 |
| Taxonomy          | Species                        | Status | Population | Reference                                      |
|-------------------|--------------------------------|--------|------------|-----------------------------------------------|
| Geomydidae        | Crowned river turtle           | VU     | II         | Ahmed et al., 2009; Basumatary & Sharma, 2013 |
|                   | *Hardella thurjii* (Gray, 1831) |        |            |                                               |
| Geomydidae        | Tricarinate hill turtle        | VU     | I          | Sc I                                          |
|                   | *Melanochelys tricarinata* (Blyth, 1856) |        |            | Basumatary & Sharma, 2013                     |
| Geomydidae        | Indian black turtle            | NT     | II         | NL                                            |
|                   | *Melanochelys trijuga* (Schweigger, 1812) |        |            | Ahmed et al., 2009                           |
| Geomydidae        | Indian eyed turtle             | VU     | II         | NL                                            |
|                   | *Morenia petersi* (Anderson, 1879) |        |            | Choudhry, 1996                               |
| Geomydidae        | Brown roofed turtle            | NT     | II         | NL                                            |
|                   | *Pangshura smithi* (Gray, 1863) |        |            | Basumatary & Sharma, 2013                     |
| Geomydidae        | Assam roofed turtle            | EN     | II         | NL                                            |
|                   | *Pangshura sylhetensis* (Jerdon, 1870) |        |            | Basumatary & Sharma, 2013                     |
| Geomydidae        | Indian tent turtle             | LC     | II         | NL                                            |
|                   | *Pangshura tentoria* (Gray, 1834) |        |            | Basumatary & Sharma, 2013                     |
| Geomydidae        | Indian roofed turtle           | LC     | I          | Sc I                                          |
|                   | *Pangshura tecta* (Gray, 1830) |        |            | Basumatary & Sharma, 2013                     |
| Testudinidae      | Elongated tortoise             | EN     | II         | Sc IV                                         |
|                   | *Indotestudo elongata* (Blyth, 1853) |        |            | Ahmed et al., 2009                           |
| Testudinidae      | Asian giant tortoise           | EN     | II         | Sc IV                                         |
|                   | *Manouria emys* (Schlegel & Müller, 1840) |        |            | Choudhry, 1996                               |
| Testudinidae      | Impressed tortoise             | VU     | II         | Sc IV                                         |
|                   | *Manouria impressa* (GÜNTHER, 1882) |        |            | Mital et al., 2019                            |
| Trionychidae      | Asiatic softshell turtle       | VU     | II         | Sc IV                                         |
|                   | *Amyda cartilaginea* (BODDAERT, 1770) |        |            | Nath, 2018                                    |
| Trionychidae      | Narrow-headed softshell turtle | EN     | II         | Sc IV                                         |
|                   | *Chitra indica* (Gray, 1830)   |        |            | Basumatary & Sharma, 2013                     |
| Family          | Species                                      | IUCN | SC | Reference                                     |
|-----------------|----------------------------------------------|------|----|-----------------------------------------------|
| Trionychidae    | Indian flap-shelled turtle *Lissemys punctata* (Bonnaterre, 1789) | LC   | II | Ahmed et al. 2009; Basumatary & Sharma, 2013 |
| Trionychidae    | Ganga soft-shell turtle *Nilssonia gangetica* (Cuvier, 1825)       | VU   | I  | Basumatary & Sharma, 2013                     |
| Trionychidae    | Indian peacock softshell turtle *Nilssonia hurum* (Gray, 1830)      | VU   | I  | Basumatary & Sharma, 2013                     |
| Trionychidae    | Black soft-shell turtle *Nilssonia nigricans* (Anderson, 1875)      | EW   | I  | Ahmed et al. 2009; Basumatary & Sharma, 2013 |

**REFERENCES**

Ahmed, M.F., Das, A. & Dutta, S.K. (2009). *Amphibians and Reptiles of Northeast India. A photographic guide*. Aaranyak, Guwahati, 170 pp.

Basumatary, R., & Sharma, D. K. (2013). The turtle fauna of Kaziranga National Park, Assam, India with notes on natural history and conservation status. *Herpetology Notes* 6, 59-72.

Choudhury, A. (1996). New localities for brown hill tortoise *Manouria emys* (Schlegel and Mueller) from Karbi-Anglong, Assam. *Journal of the Bombay Natural History Society* 93: 590.

Mital, A., Tao, B. & Das, A. (2019). MANOURIA IMPRESSA (Impressed Tortoise) - Geographic distribution. *Herpetological Review* 50: 2019.

Nath, A. (2018). First report on the presence of *Amyda cartilaginea* (Boddaert, 1770) from Assam, India. *Hamadryad* 38: 39-43.