





ncompassing the last extensive patch of primary lowland rainforest in Sri Lanka, world-famous but little-visited Sinharaja Forest Reserve is situated in the south-west lowland wet zone of the island. More than 60% of the trees found there are endemic, and many of them are considered rare. There is much endemic wildlife, especially birds, but the reserve is also home to over 50% of Sri Lanka's endemic species of mammals and butterflies, as well as many kinds of insects, reptiles and rare amphibians. Covering an area of 8,864 ha (about 11,000 ha according to some sources and if one takes the proposed reserve zones in consideration) and ranging from an altitude of 300 to 1,170 meters, it consists of 6,092 ha of Forest Reserve and 2,772 ha of Proposed Forest Reserve. This narrow strip of undulating terrain encompasses a series of ridges and valleys that are crisscrossed by an intricate network of streams. Draining to both the south and

Gloriously

beautiful, the Ground orchid

graminifolia is a

common sight in

secondary forest.

the Sinharaja

Arundina

north, these waterways flow into the Gin River on the southern boundary of the reserve and Kalu River via the Napola Dola, Koskulana Ganga and Kudawa Ganga on the northern boundary. Annual rainfall over the last 60 years has ranged from 3614 -5006mm with most of the precipitation during the south-west monsoon (May-July) and the north-east monsoon (November - January), but such data can be misleading, making the planning of a visit an unpredictable venture. This is a very, very wet forest, which can only be explored on foot and which often requires negotiating muddy ground and wading small, shallow streams despite the presence of a good network of well-maintained forest tracks. Be prepared - Sinharaja can be jealous of its wonders and treasures (well, at least it was in our case - it never stopped raining while we visited, much to our annoyance since too much rain will keep many animal species in constant hiding!),

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The beautiful Sri
Lankan pit viper,
Ceylon pit viper or
Green pit viper
Trimeresurus
trigonocephalus is
another endemic
species and can
be occasionally
observed coiled in
ambush on low
branches.

A UNESCO WORLD HERITAGE SITE

A tiny and

unidentified

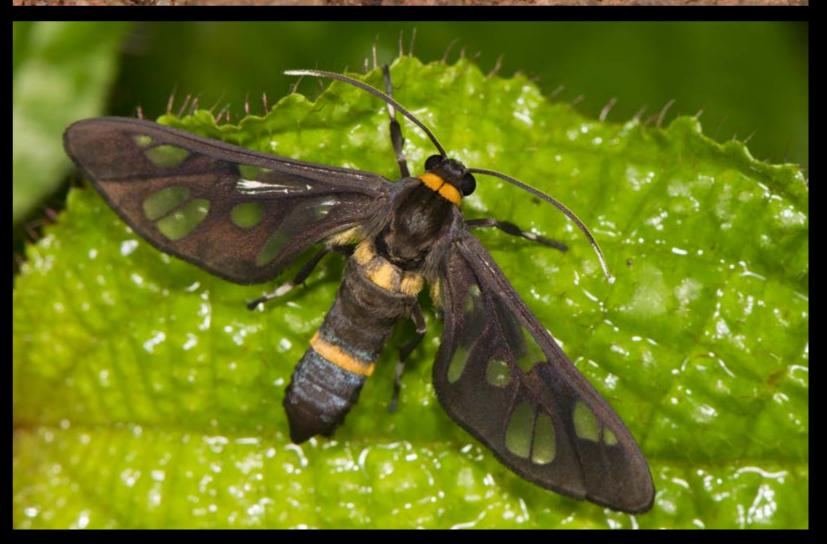
planthopper probably belonging to the family Dictyopharidae or Tropiduchidae.

Sinharaja has been designated a World Heritage Site by UNESCO as it is the last remaining and relatively undisturbed patch of tropical humid evergreen forest in Sri Lanka. The flora found in the reserve is a relic of Gondwanaland, and it provides an important component to our scientific understanding of continental drift and an outstanding site for the study of the processes of biological evolution. A geological feature of considerable interest is the presence of the Sinharaja basic zone, with the reserve located within the transition zone of two important rock types characteristic of Sri Lanka; the south-western group and the highland group. Endemism within the area is extremely high. Protecting the last viable remnant of Sri Lanka's tropical lowland rainforest, Sinharaja is home to at least 139 endemic plant species within two main types of forest: remnants of Dipterocarpus in the valleys and on the lower slopes, and secondary forest and scrub where the original forest cover has been removed. continued on page 17



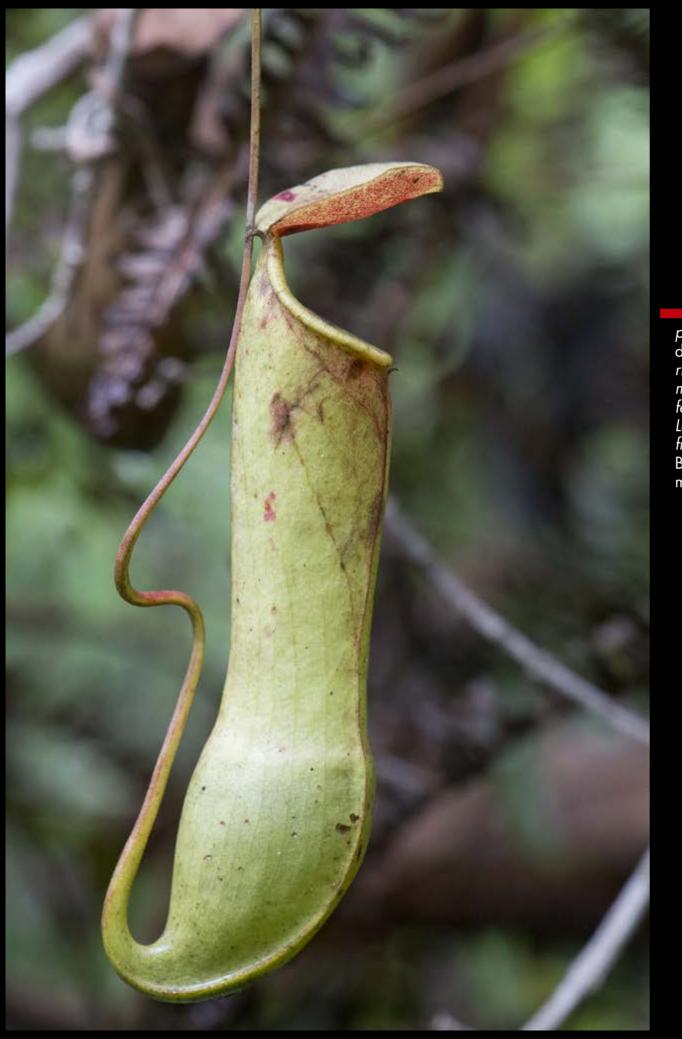
Left, Lantern
bug Pyrops
maculatus, an
endemic species;
right top,
Tree-climbing
freshwater crab
Perbrinckia
scansor, another
endemic;
right bottom,
wasp-like moth
Syntomoides
imaon.







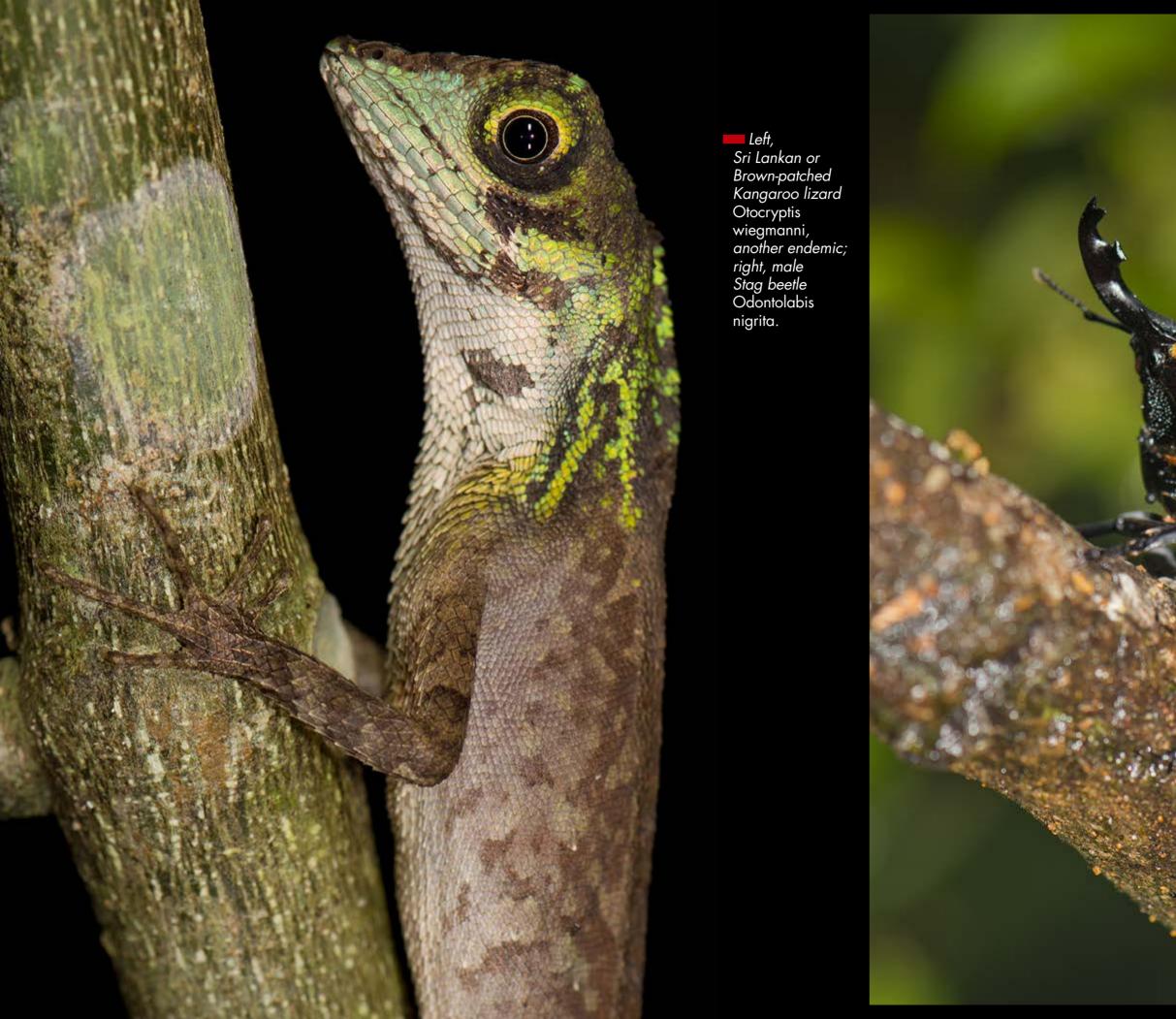




Left, Pitcher plant Nepenthes distillatoria; right, male and female Sri Lankan frogmouth Batrachostomus moniliger.









also being made by the management agency to further enhance the conservation status of the reserve through regulation of land uses occurring in the area surrounding the property, in the hope of further reducing the impact of intensive land use on the values of Sinharaja. Illicit timber felling, mining for gems and poaching (by locals and by foreign reptile and amphibian collectors for the exotic pet market) continue to be of concern with regards to the impacts on the values and integrity of the reserve, but the high level of public support for nature conservation and the large number of government bodies involved in regulation and proposal approval luckily results in strong opposition to resource exploitation proposals.

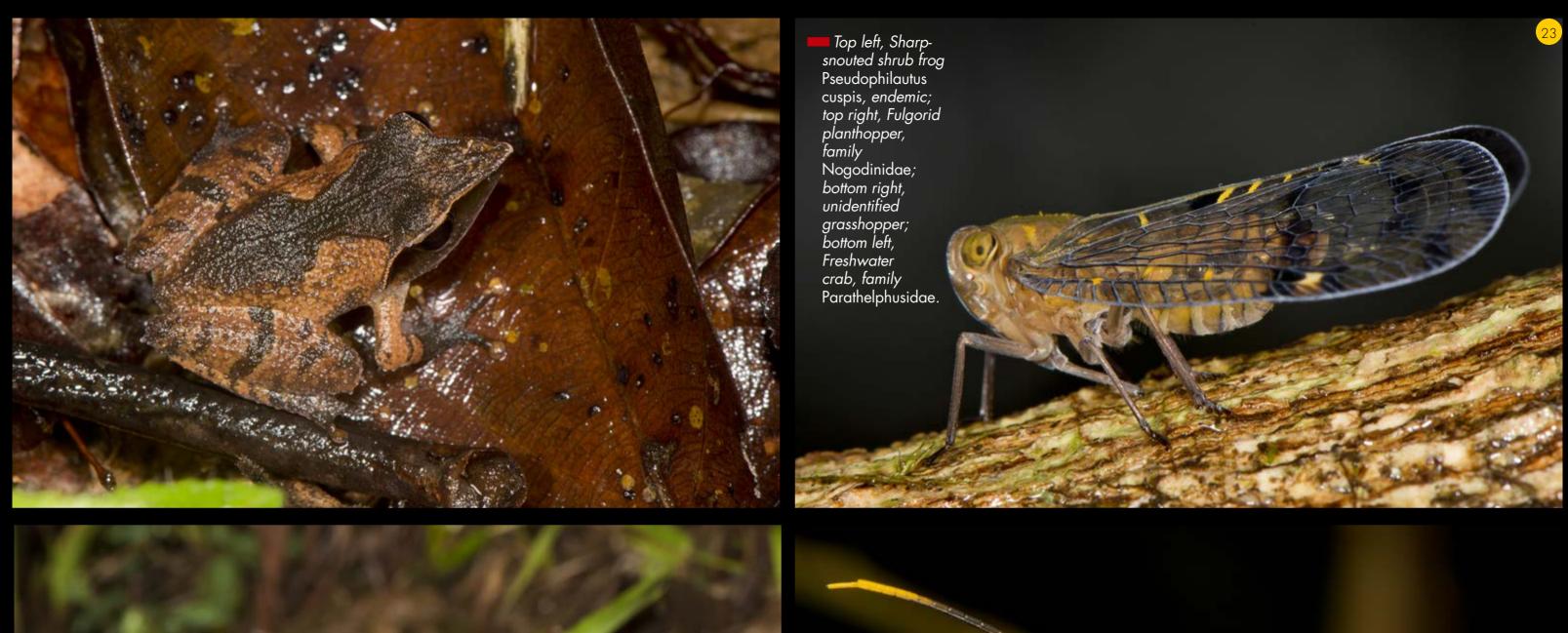
CURRENT STATUS AND PAST HISTORY

Noted as a national heritage wilderness area on October 21st 1988, the majority of the area within the property was originally declared a forest reserve on May 3rd 1875, providing a long history of protection. The property is afforded the highest level of legal protection under the National Heritage and Wilderness Area Act of Sri Lanka and almost all the peripheral natural forests along the boundary have already been declared

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forests under the Forest Ordinance. The values encompassed by the property were further recognised when it was declared a Biosphere Reserve in April 1978 and subsequently inscribed on the World Heritage. The management plans for the property, prepared in 1985/86 and 1992/94, emphasize conservation, scientific research, buffer zone management, benefit sharing, and community participation. Sinharaja is provided with the highest level of legal protection under the National Heritage Wilderness Area Act and a high level of environmental awareness of the local community is extremely helpful in implementing management plan prescriptions. Forest dependency of local communities is very low and maintaining this healthy partnership with local communities is the main strategy to ensure future protection of this property. Historically protected as a result of its inaccessibility and steep, hilly terrain, the Forest Department prioritizes protection of the reserve over development pressures and resource extraction. Visitor numbers remain low with entry by permit only. Threats to the values and integrity of the property primarily come from encroaching cultivation, particularly along the southern

as conservation forests or reserved















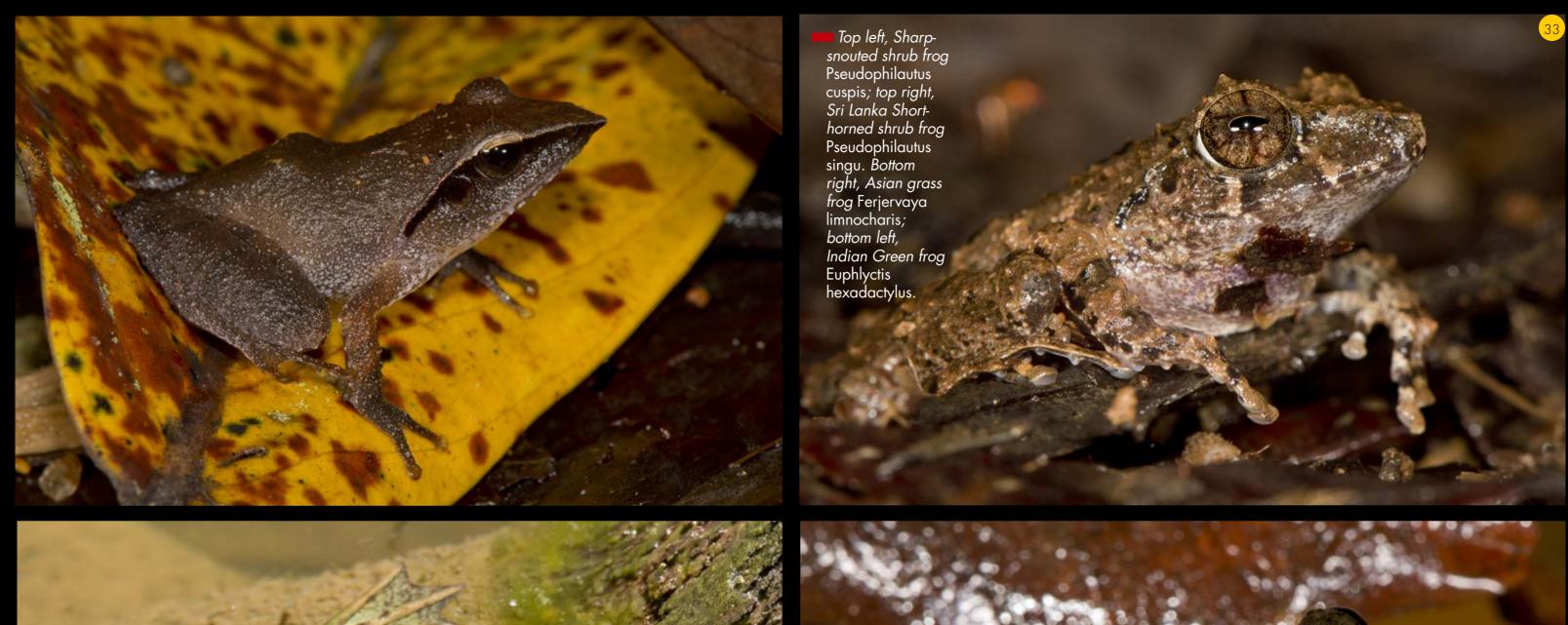




Left, Sri Lanka
blue magpie or
Ceylon magpie
Urocissa ornata;
right, Purple-faced
langur
Trachypithecus
vetulus, an
endemic species.



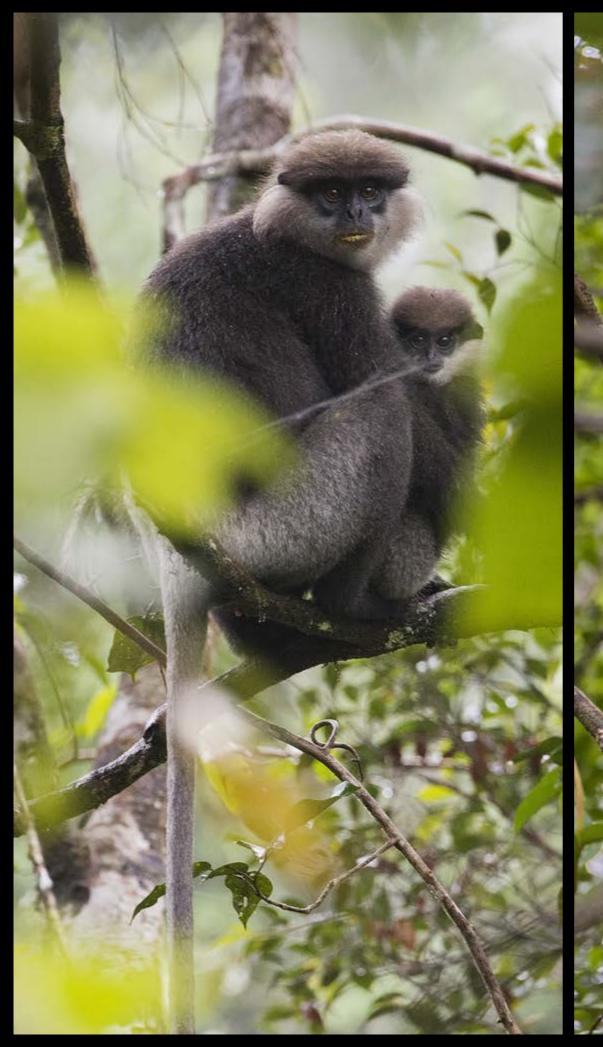


















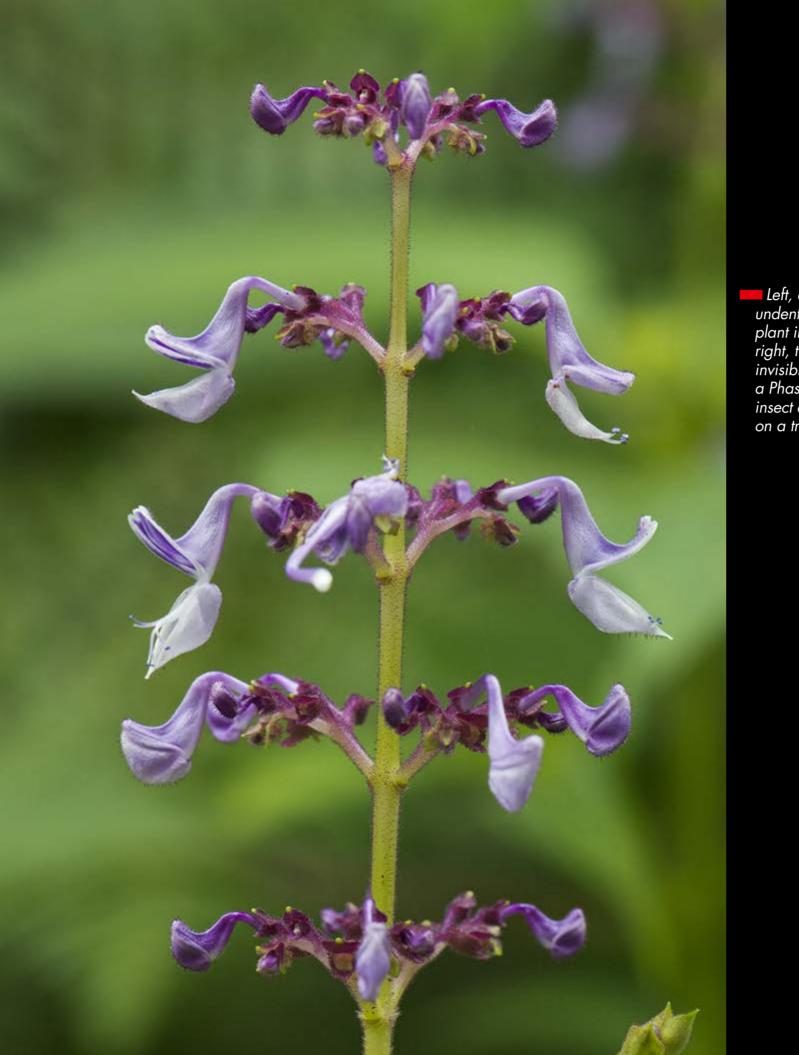


Left, one of the countless brooks and streams crisscrossing the rainforest landscape of Sinharaja; right, Sri Lanka blue magpie or Ceylon magpie Urocissa ornata.

agricultural country since 4th century BC and much of the land in the northern and central part of the country, where there are forest covers now, had been under cultivation till around the 10th century AD, so the age of the forest cover there dates back only for around a thousand years. Taking note of the above, we now can finally add that the Sinharaja forest cover receives between 3000-6000 mm of rain throughout the year and has a minimum rainfall of over 200 mm, even during non-monsoon periods. The mean temperature is between 18-27 degrees centigrade with a humidity of 75% - 90%, and only a faint sunshine reaches the ground layer of the forest totalling a meager 5% - 15% of sunlight. As we already said, it's a very, very wet forest - but believe us, despite the leeches, at the end of a long day you'll be happily singing in the rain!



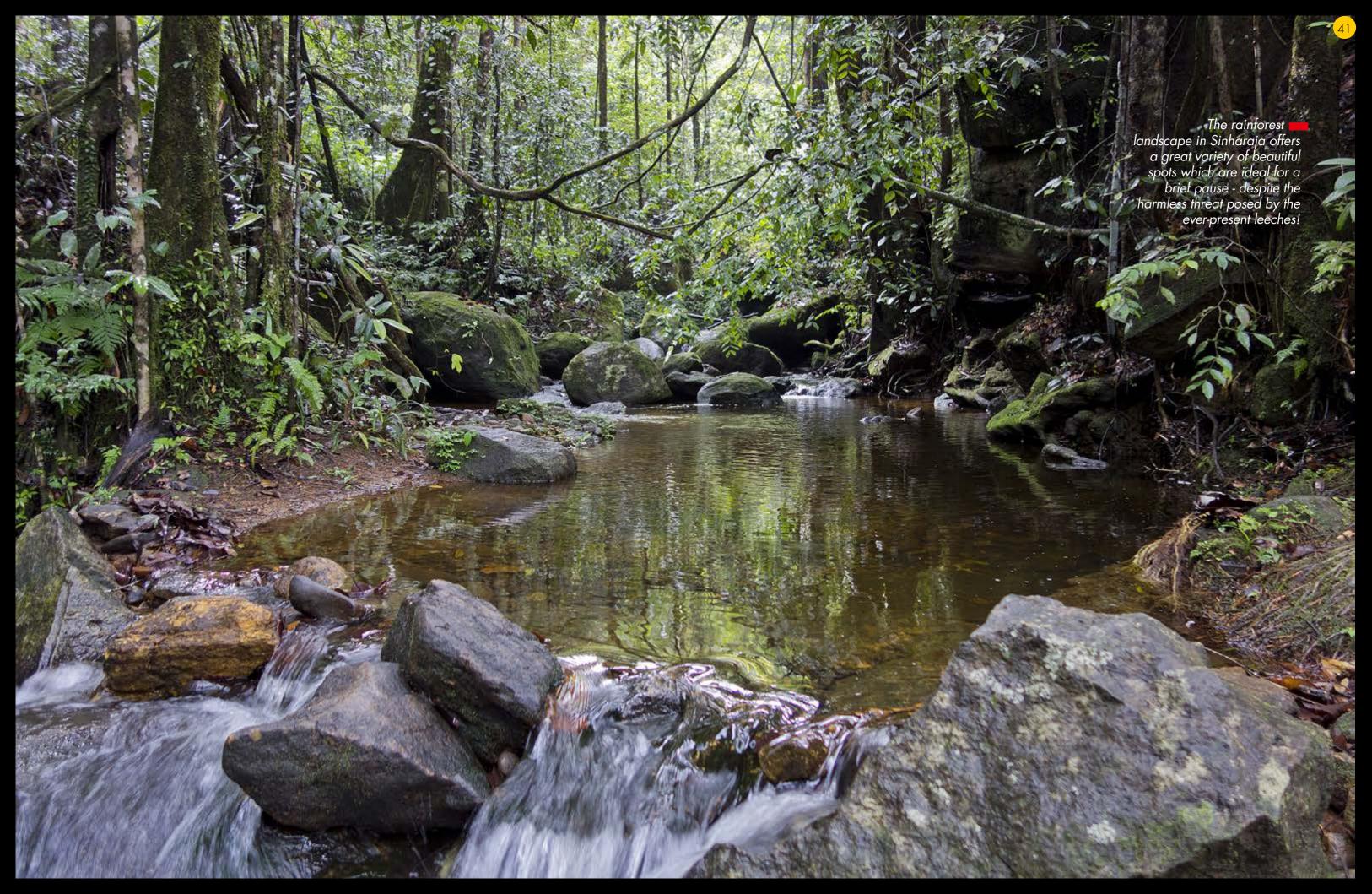




Left, an undentified forest plant in bloom; right, the near-invisible shape of a Phasmid stick insect camouflaged on a tree's bark.



Due to its high ambient humidity, the forest of Sinharaja is home to a great variety of land snails, many of which are difficult to recognize for the non-specialist.





Left, Sri Lankan or Brown-patched Kangaroo lizard Otocryptis wiegmanni, endemic; right, unidentified giant millipede. High ambient humidity is quite apparent in this latter image.









