

## Seed Dispersal By Bats In The Neotropics By Tatyana A Lobova

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Bats as seed dispersers and reforesters. About Bats. Why bats matter. Bats as seed dispersers and reforesters. Like birds, some bats play a critical role in spreading the seeds of trees and other plants. Some tropical fruit bats carry seeds inside them as they digest the fruit, then excrete the seeds far away from the original tree. These seeds drop to the ground in their own ready-made fertiliser, which helps them germinate and grow.

~~Bats as seed dispersers and reforesters - Why bats matter ...~~

Seed Dispersal by Bats in the Neotropics. Monograph. Series: Memoirs of the New York Botanical Garden Volume: 101. By: Tatyana A Lobova, Cullen K Geiselman and Scott A Mori. 471 pages, Col plates, figs, tabs. Publisher: New York Botanical Garden Press. Click to have a closer look. ISBN: 9780893275013 Hardback Dec 2009 Usually dispatched within 2-4 weeks.

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Seed retention time within bats is often less than 20 minutes and the bats often defecate the seeds while in flight. The seeds of such plants as *Cecropia*, *Solanum*, and *Vismia* are adapted for dispersal by bats and are often the first plants to colonize large open areas. A plastic sheet placed in the middle of one of these fields and checked for seeds periodically reveals that scarcely any seeds arrive during the day whereas there is a steady "seed rain" during the night.

## ~~Bats as Dispersers—New York Botanical Garden~~

Bats play a fundamental role in seed dispersal due to their exceptional species diversity, abundance, and a variety of canopy and understory feeding habits. "Bats disperse a larger amount of seeds per species than birds, increasing the probability of seed establishment," write the study authors.

## ~~Seed dispersal by fruit-eating bats essential to tropical ...~~

Using seed traps examined before sunrise (0400 h) and before sunset (1800 h), we compared volant vertebrate seed dispersal, assuming that seeds found at the end of the night were dispersed by bats and those found at the end of the day were dispersed by birds. We did not find seeds from other frugivores such as monkeys or opossums.

## ~~Seed Dispersal by Bats and Birds in Forest and Disturbed ...~~

We investigated seed dispersal by birds and bats in a successional area in the lowland dipterocarp forest of the Subic Watershed Forest Reserve (SWFR) in Luzon Island, Philippines. Using pairs of day and night traps, we collected seeds during 3 mo of wet season and 3 mo of dry season in a 1.27-ha study site.

## ~~Seed Dispersal by Birds and Bats in Lowland Philippine ...~~

The importance of chiropterochory, or bat mediated seed dispersal, relies on the fact that 549 species of 62 plant families are dispersed by bats in the Neotropics (Lobova et al. 2009)....

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of Seeds Dispersed by Bats in the Neotropics is being prepared. The Seed Atlas will include original morphological and anatomical data with descriptions and images of the fruits and seeds of species of plants dispersed by bats throughout Both genera and species will be described.

## ~~Atlas of Seeds Dispersed by Bats in the Neotropics~~

We investigated seed dispersal by birds and bats in a successional area in the lowland dipterocarp forest of the Subic Watershed Forest Reserve (SWFR) in Luzon Island, Philippines. Using pairs of day and night traps, we collected seeds during 3 mo of wet season and 3 mo of dry season in a 1.27ha study site.

## ~~Seed Dispersal by Birds and Bats in Lowland Philippine ...~~

“Bats are great pollinators, they help with seed dispersal, and certain bat species can eat between 30 to 50 per cent of their body weight in one feeding, which means they help control insect populations,” said Anthony Laforge, lands director at Wahnapiatae First Nation.

## ~~First Nations to study shrinking bat populations in northeast~~

Bats dispersed almost five times more seeds than the birds and also more seeds per individual (birds: 5,415 seeds, 66.8 seeds/individual; bats: 26,670 seeds, 75.1 seeds/individual). Although the number of bird fecal samples was five times lower than the number for bats, on average each bird species dispersed more plant species: the plant/animal ratio was 3.9 for birds and 2.7 for bats.

## ~~Partitioning of seed dispersal services between birds and ...~~

Restoration of tropical forest depended in large part on seed dispersal by fruit-eating animals that transported seeds into planted forest patches. We tested effectiveness of dispersal agents as

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revealed by established recruits of tree and shrub species that bore seeds dispersed by birds, bats, or both.

## ~~Roles of Birds and Bats in Early Tropical Forest Restoration~~

As the majority of seeds are dispersed only to feeding roosts, median dispersal distances were similar for both large (42–67 m) and small (42–65 m) seeds. However, small seeds were potentially dispersed up to 75.4 km, four times further than the previous maximum distance estimated for a similar-sized frugivore.

## ~~Long distance seed dispersal by straw-coloured fruit bats ...~~

However, in Mahua tree, *Madhuca latifolia* (Sapotaceae) both pollination and seed dispersal are predominantly performed by pteropodid bats. We report the foraging and seed dispersal strategies of three sympatric pteropodid bats, *Cynopterus sphinx*, *Rousettus leschenaultii* and *Pteropus giganteus*, during two successive fruiting seasons of *M. latifolia*. These sympatric fruit bats exhibited spatio-temporal variation while foraging and consumed fleshy mesocarp of fruits and discarded the seeds.

## ~~Seed dispersal of a tropical deciduous Mahua tree, Madhuca ...~~

Fruit-eating bats are one of the most important seed dispersers in the tropics. Their fruit consumption increases dispersal distance from parent plants, seed germination, and seed survival. They disperse keystone species, and help maintain forest diversity because of their diverse diet.

## ~~Bat boxes and seed dispersal – Osa Conservation~~

The dispersal–dormancy correlation was consistently negative, regardless of how we measured seed dispersal, although such correlation was marginally non-significant between seed dormancy and maximum dispersal distance ( $P = 0.06$ ; Fig. 4c). In accordance with traditional expectations, seeds of perennial species were more likely to be larger, dispersed further and less likely to be dormant.

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~~Trade-off between seed dispersal in space and time—Chen ...~~

Bats are terrific ecological citizens, playing other important roles in ecological services in addition to insect suppression, including seed dispersal, pollination and nutrient distribution. Today, Austin's resident bats are facing challenges in a region experiencing exponential growth and development. While bats can coexist easily with ...

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