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CHAPTER 1

HISTORY OF SCIENTIFIC EXPLORATION

THE HISTORY OF ZOOLOGICAL EXPLORATION OF MADAGASCAR

F. Andriamialisoa and O. Langrand

THE FIRST ACCOUNT ON THE FAUNA OF MADAGASCAR

The natural history chapter in *L'Histoire de la grande isle Madagascar* (Flacourt 1658, 1991) by Etienne de Flacourt (1607–1660) begins with a statement praising the considerable diversity of animals, including birds and fishes and rare animals, as well as plants on the island. In 1648, Flacourt became the governor of the French commercial enclave of Fort Dauphin (Tolagnaro) and, through his first detailed accounts of the natural history of the island, pioneered the era of explorers and discoverers of Madagascar's fauna and flora.

The modern phase of human settlement of the island started in an earnest manner in the seventh century (see Wright and Rakotoarisoa, pp. 181–90), and until the 16th century the links with the outside world were most likely dominated by Arabian sailors and merchants whose trading routes passed by Madagascar's coasts (Brown 1995). Those early visitors brought home tales of fantastic Malagasy animals that became characters of legend and fable. The rokh, a bird found in the accounts of Sinbad's travels in *A Thousand and One Nights*, is believed by some authors to have been a monstrous version of an elephant bird (family Aepyornithidae) (Decary 1937; Allibert 1992).

From the 16th century, Portuguese, Dutch, and English vessels often berthed off the Malagasy coasts, particularly around Toliara, including the Saint Augustin Bay. Their passengers were mostly transient traders and did not settle in a permanent manner on the island. They left little testimony of their passage with regard to the wildlife, except for a few anecdotes and illustrations. William Finch (d. 1613), a member of the East India Company of London's 1608 expedition, noticed the abundance of lizards and chameleons on the island. He also had a glimpse of an ash-colored, white-and-black-tailed creature near the Onilahy River, which was undoubtedly a *Lemur catta* (Ring-tailed Lemur) (Mittermeier et al. 2010).

In 17th century Europe, dreams of conquest of faraway lands gave rise to one commercial company after the other. France created the Compagnie Française des Indes Orientales in 1643. Flacourt was an official envoy of France and an employee of this company

FIGURE 1.1 ***Isle de Madagascar—Isle St. Laurens*, early map of Madagascar, dating from 1658 (Flacourt).** (SOURCE: Bibliothèque Nationale de France.)

when he arrived on the island on 15 December 1648. His mission was to revitalize the tiny trading post of Fort Dauphin. His commercial efforts failed, but his writings were a different form of success. He remained on Madagascar until 1655 and visited the southern and eastern areas, studying the geography, anthropology, arts, traditions and customs, flora, and fauna (Figure 1.1). When introducing his book to Nicolas Fouquet, King Louis XIV's representative, Flacourt "offered the island" to the French kingdom.

Flacourt depicted three groups of Malagasy fauna—terrestrial animals and insects, birds, and aquatic life—using local names with phonetic translation. This was before the use of binomial scientific names, which Swedish naturalist Carolus Linnaeus (1707–1778) would not develop until 1758. For the first time, a publication contained descriptions, though in some cases rudimentary, of lemur species ("monkeys" according to Flacourt). *L'Histoire de la grande isle Madagascar* enables the identification of lemur genera such as *Varecia* and *Propithecus* and some lemur species, such as *Hapalemur griseus* (Gray Bamboo Lemur). Flacourt also described a species of mouse lemur in the genus *Microcebus* ("some sort of gray squirrel") and *Cryptoprocta ferox* (Fosa, "an animal related to the badger") and made reference to the existence of mammals now extinct and known only from the subfossil record (see Godfrey and Douglass, pp. 191–97), such as giant lemurs and dwarf hippopotamuses.

Flacourt's bird list comprises 50 species, either "forest birds" or "night birds." His text presents a most valuable mention of the existence of elephant birds. On the basis of his writings, Flacourt never saw an elephant bird but reported stories from local people: the "vouron patra" haunted the Ampatres (almost certainly the area known today as Androy), had nesting habits similar to those of an ostrich, was hard to catch, and sought the most remote areas. Flacourt's accounts were far from scientific but presented Madagascar's mythic fauna to the outside world. The writer Ruelle, one of Flacourt's contemporaries, had his own imaginary way of describing the "vouron patra" (*vorompatra* in Malagasy and perhaps best translated as "the bird of the southern plains"). He wrote about a "flying dragon" that he had killed in order to have its skin (Allibert and Vérin 1993).

THE ENGAGEMENT OF THE FIRST TRUE NATURALISTS

The 18th century was a favorable time for scientific discoveries, intellectual novelties, and curiosities in Europe. Natural history societies, public or private collectors, botanical and zoological gardens, and curiosity cabinets gathered specimens from all around the world. In 1703, James Petiver (1665–1718), a London apothecary, first illustrated a lemur specimen, *Eulemur mongoz* (Mongoose Lemur) (Mittermeier et al. 2010).

The increasing sophistication of navigational techniques ushered in the dawn of a new category of voyagers: naturalist travelers. Formal natural exploration expeditions were organized. In 1766, Philibert Commerson (1727–1773) joined Antoine de Bougainville (1729–1811) on his trip around the world. Pierre Poivre (1719–1786), the French representative in the Isles de France et de Bourbon (Mauritius and La Réunion), asked Commerson to study the flora and fauna of the Indian Ocean region. Commerson soon realized how unique and fascinating Madagascar's nature was and collected mammals, birds, and insects. A large insectivorous bat (*Macronycteris commersoni*) named by the naturalist Etienne Geoffroy Saint-Hilaire (1772–1844) reminds us today of Commerson's visit to Madagascar. Poivre himself traveled to the island and collected birds and lemurs, and in 1768, he invited his nephew Pierre Sonnerat (1748–1814) to come to Madagascar. Sonnerat was a colonial administrator and a keen naturalist. During his exploration of the eastern part of the island, he recorded and illustrated *Indri indri* (Indri) and *Daubentonia madagascariensis* (Aye-aye). Johann Friedrich Gmelin (1748–1804), a student of Linnaeus, used Sonnerat's plates to name these two lemur species (Viette 1981).

In herpetology, Briton James Parson (1705–1770) was the first to describe, in 1768, a species of Malagasy chameleon, which he named *Cameleonis rarissima*. This was subsequently, in 1824, renamed *Calumma parsonii* in his honor by Georges Cuvier (1769–1832) (Brygoo 1971). French naturalists Alphonse Charles Joseph Bernier (1802–1858)—to whom *Anas bernieri* (Madagascar Teal), *Oriolia bernieri* (Bernier's Vanga), and a recently described bird family, the Bernieridae (Cibois et al. 2010), are dedicated—Jules Goudot (1803–1858?), Louis Rousseau (1811–1874), and Charles Coquerel (1822–1867) visited the eastern and northeastern parts of Madagascar. A bird species, *Coua coquereli* (Coquerel's Coua), and two lemur species, *Propithecus coquereli* (Coquerel's Sifaka) and *Mirza coquereli* (Coquerel's Giant Mouse Lemur), are named after Coquerel, a beetle specialist. Goudot's contributions are honored in the names of several animals (see Box 1).

The Dutchmen François Pollen (1842–1886) and Douwe van Dam (1827–1898), the Frenchman Etienne Geoffroy Saint-Hilaire, and the Briton Alfred Crossley (1842–1877) were other famous leaders of naturalist expeditions on Madagascar. Crossley gathered a large collection of mammals, birds, and insects for the Natural History Museum in London (see Box 2).

Pollen and van Dam collected numerous specimens on Madagascar and neighboring islands in 1864 and 1865. They summarized their discoveries in a report, which includes chapters on mammals, birds, reptiles, fishes, and insects. Pollen and van Dam's collection of lemurs formed a central resource for the study of Malagasy primates. Pollen was the first to contract German collector Josef-Peter Audebert (1848–1933) to collect in the eastern parts of the island for the Leiden Museum (Carleton et al. 2014). Audebert arrived on Madagascar in 1876 and traveled and collected specimens extensively over the next seven years. An endemic rodent, *Nesomys audeberti* (Lowland Red Forest Rat), is named after him.

Pollen and van Dam's ornithological work was particularly remarkable and pioneered a new era of bird studies on the island. Two species are named after these early naturalists: *Xenopirostris polleni* (Pollen's Vanga) and *X. damii* (Van Dam's Vanga). They are also honored with two freshwater fish species (*Paratilapia polleni* and *Paretroplus damii*) and a reptile (*Madascincus polleni*). Pollen and Hermann Schlegel (1804–1884), a German ornithologist (Figure 1.2) for whom *Philepitta schlegeli* (Schlegel's Asity) is named, compiled a list of 190 birds species known from Madagascar (Schlegel and Pollen 1868).

Another famous ornithologist of the same period was the German Gustav Hartlaub (1814–1900), who, although he never

BOX 1 JULES PROSPER GOUDOT (1803–1858?), FRENCH NATURALIST AND COLLECTOR, ON MADAGASCAR BETWEEN 1829 AND 1857

F. ANDRIAMIALISOA AND O. LANGRAND

JULES PROSPER GOUDOT was born on 12 December 1803 in Lons-le-Saunier, France. Very little is known about his family and education. He probably attended the Ecole des Voyageurs, created in 1819 by the Muséum National d'Histoire Naturelle in Paris to promote the collection by travelers of plants and animals across the world. Goudot collected flora and fauna specimens on Madagascar and La Réunion between 1829 and 1857, while his older brother Justin Marie did the same in the northern part of South America (specifically in Colombia) (Brygoo 1981).

While Goudot's extensive collections largely benefited the French national museum, his name appears neither on the list of the museum's correspondents from the period 1708–1909 nor on the list of travelers who contributed to the collections of the museum or the Jardin du Roi (Blanchard 1872; Frémy 1889; Anonyme 1909). In 1828, with a grant obtained from the museum, Goudot left France on the vessel *La Zélée* and arrived five months later on La Réunion; he spent three months there before leaving for Madagascar, disembarking in Toamasina in May 1829. He stayed a few months on the east coast, visiting Tintingue and Ile Sainte Marie. The Hova authorities did not allow him to visit the Central Highlands. He was forced to leave Toamasina at the end of 1829 and went back to La Réunion, then to France in 1830.

With another grant from the museum, Goudot returned to Madagascar, arriving in Toamasina in October 1831, and visited the Sihanaka region, to the east of Lake Alaotra. In 1833, he traveled to the north, up to Antsiranana, aboard the vessel *La Nièvre*. He returned to France the same year with many specimens. In 1834, out of 4023 specimens Goudot collected on Madagascar, the museum received 1641.

In 1834, Goudot sailed back to Madagascar after obtaining a three-year grant from the museum and the official title of "Voyageur Naturaliste." In 1835, he went back to the Sihanaka region, and in 1838, he visited the Central Highlands for the first time, spending six months in Antananarivo. He decided to base himself in the capital city and married a Malagasy woman named Augustine Jolicoeur (Boudou 1940).

In 1839, he went back to France with his wife, apparently to buy fabrics and jewelry for Madagascar's Queen Ranavalona I. In 1842, he collected in the region of Toamasina, in 1852 in the region of Nosy Be, and in 1856 near Toamasina. In 1857, Goudot lived in Antananarivo, in a location southeast of Mahamasina, and inventoried plants in an area known today as Tsimbazaza, which at that time was on the outskirts of the capital city and the private property of the Rafaralahiberonga Radaody-Rainidaorodina family, with whom Goudot was acquainted from the time he spent in Toamasina. While Goudot's activities were purely nature-related, some people, including his friend Rainidaorodina, believed he was a spy for the French government (Radaody-Ralarosy 1966). In 1857, Joseph Lambert, a French resident in Antananarivo, and a few high-ranking officers planned a coup to overthrow Queen Ranavolona I, with the support of her son, Prince Rakoto. The coup failed, and Queen Ranavalona I ordered the trial of the Malagasy involved in the plot and the deportation of several Europeans, including Lambert, Jean Laborde, his son Clément Laborde, Marius Arnaud, and Austrian traveler Ida Pfeiffer (Pfeiffer 1861; Brown 1995). Forced to leave Madagascar with these French personalities, Goudot settled on La Réunion. He sent several letters in 1858 asking Queen Ranavalona I authorization to return to Madagascar but was denied.

In 1861, Queen Ranavalona I died, and many Europeans went back to Madagascar. It is possible that Jules Goudot was among them, but there is no proof. The French government, eager to find out what had happened to the relatively famous traveler and naturalist, asked Jean Laborde, who had returned to Madagascar as the first French consul, to locate Goudot. He was not found, and his notes and last collections were forever lost. The date and location of his death are unknown. The Malagasy nicknamed Goudot "Mose Bibikely" or "Monsieur [or Mister] Small Animals/Insects." Some also called him "Rafaralahy-Bibikely" (Boudou 1940).

During his time in Madagascar, Goudot lived in very modest conditions. He walked barefoot and dressed as a Malagasy peasant, in a *lamba jabo* made of raffia and cotton, a shirt known as an *akanjo ketrom-bozona*, and a straw hat on which he pinned various insects and other small animals. His passion for nature took him to remote parts of Madagascar, where he ignored risks associated with safety, health, and comfort. Because of his appearance and lifestyle, Goudot was not appreciated by some of his French compatriots and was often a target of defamation (Brygoo 1981).

The specimens of plants and animals Goudot collected on Madagascar gave many scientists opportunities to describe new species (Poisson 1948). Among the vertebrates, were the first fragments of elephant bird eggs studied by Paul Gervais in 1841; a specimen of *Geobiastes squamiger* (Scaly Ground-roller) that led to the description of this species by Frédéric de Lafresnaye in 1838; some freshwater fishes, such as *Mesopristes elongatus*, described by Alphonse Guichenot in 1866; and several species of lemurs, such as *Phaner furcifer* (Masoala Fork-marked Lemur), described by Henri de Blanville in 1839, and *Lepilemur mustelinus* (Weasel Sportive Lemur), described by Isidore Geoffroy Saint-Hilaire in 1851.

MALAGASY VERTEBRATE SPECIES NAMED AFTER J. P. GOUDOT

1. ***Boophis goudotii*** **(Goudot's Bright-eyed Frog), described by Tschudi (1838)**
2. ***Ithycyphus goudoti*****, a snake, described by Schlegel (1837)**
3. ***Myotis goudoti*** **(Malagasy Mouse-eared Bat), described by Smith (1834)**
4. ***Eupleres goudotii*** **(Falanouc), a carnivoran described by Doyère (1835)**

BOX 2 ALFRED CROSSLEY (1842–1877), BRITISH NATURALIST AND COLLECTOR, ON MADAGASCAR BETWEEN 1869 AND 1877

F. ANDRIAMIALISOA AND O. LANGRAND

ALFRED CROSSLEY was born in 1842 and lived in Halifax, West Yorkshire, United Kingdom. Nothing is known about his academic or professional background. During the late 1800s, when the trade in natural specimens was thriving, Crossley worked as a specimen collector and for this purpose went to Madagascar, Cameroon, and today's Zimbabwe (Thomas 1906). On Madagascar, Crossley collected specimens of plants, insects, birds, and mammals, which he sold to individuals and museums through natural history agents and dealers, such as William D. Cutter and Edward Gerrard Jr. (of Edward Gerrard & Sons), both located in Bloomsbury, London (Sharpe 1870a; Dorr 1997; Morris 2004; Carleton et al. 2014).

Crossley conducted three expeditions to Madagascar between 1869 and 1877. His trips to the island were financed by Christopher Ward (1836–1900), a lepidopterist and naturalist from Halifax, United Kingdom. Crossley visited localities in the northeast, the central east, and the west (Sharpe 1870a, 1871, 1875; Grandidier 1892). He was assisted in the eastern region by local hunters who used blowpipes to kill birds (Sharpe 1871). Crossley did not systematically record information related to the collected specimens. However, his notes regularly mentioned the locality and the local name of bird species, as well as the date and sometimes other details such as stomach contents or eye color. Crossley had the habit of sending accompanying notes with the specimens, but these documents did not always reach the agent, as was the case with the 1875 shipment to Cutter (Sharpe 1875). In addition, when specimens were sold by the agents, this information was not always transmitted to the buyers.

In 1869 and 1870, Crossley visited Iharana (also known as Vohémar, recorded on specimen labels as "Vohima," presumably derived from the locality name Vohimarina), as well as Antalaha, Maroantsetra, and Toamasina. From Toamasina, he went to Mahambo and Fenoarivo Atsinanana and to Nosivola (mentioned as "Nossi Vola"), southeast of Lake Alaotra. Specimen labels mention a place called "Saralalan," located 12 km from Nosivola and presumably in close vicinity of today's Zahamena protected area, referred to in Grandidier (1892) as "Pays de l'Antsihanaka" (also see Box 3, on Charles Herschell-Chauvin for details concerning the "Sihanaka Forest"). From there, he reached the Imerina region and collected in a place he referred to as "Vodirat," 40 km northwest of Antananarivo. In London, Cutter made a collection of Crossley's bird specimens available for inspection by Richard Bowdler Sharpe (1847–1909), the curator of the bird collections at the British Museum (now the Natural History Museum) (Sharpe 1870a). From this consignment, Sharpe described two new bird genera, *Oxylabes* and *Mystacornis*, and two new bird species, *Sarothrura insularis* (Madagascar Flufftail) and *Pseudobias wardi* (Ward's Vanga), the latter named in honor of Christopher Ward, the sponsor of Crossley's expeditions to Madagascar (Sharpe 1870a, 1870b).

In 1870, British zoologist Michael Rogers Oldfield Thomas (1858–1929) received a shipment of 133 mammal specimens obtained by Crossley. German zoologist Wilhelm Carl Hartwig Peters (1815–1883), from the Museum für Naturkunde, Berlin, described one rodent specimen as a new species, *Nesomys rufus* (Red Forest Rat), in 1870 (Peters 1870; Thomas 1906; Carleton et al. 2014). Peters (1874) also described a new bat species, *Paremballonura atrata* (Peter's Sheath-tailed Bat) (originally named *Emballonura atrata*), from a specimen collected by Crossley (Goodman et al. 2006).

Crossley also provided specimens, collected in 1869, to Alfred Grandidier (1836–1921), who described a new species of bird, *Mystacornis crossleyi* (Crossley's Vanga) originally described as *Bernieria crossleyi*), and a new species of lemur, *Cheirogaleus crossleyi* (Crossley's Dwarf Lemur). The specimen for the latter was collected in the vicinity of today's Zahamena protected area; Grandidier (1870) recorded its origin as "Forêts est Antsianak."

Toward the end of 1870, Crossley went back to England. In 1871, Sharpe looked at a second consignment of natural history specimens from Crossley, collected in the central-eastern part of Madagascar. This did not lead to the description of any new species (Sharpe 1871). These specimens had been transported in Crossley's personal luggage, while the greater part of his collection had been sent to Paris, where the siege by Prussian forces had just started. However, no damage occurred to any of the specimens in Paris.

In 1871 and 1872, back in Madagascar, Crossley traveled from Maroantsetra to Toamasina, Mahanoro to Masindrano, and Masindrano to Ambohimanga Atsimo. The same year, he spent time in the western part of the country and went from Ankavandra to Mahajanga (Grandidier 1892). In 1872, Sharpe studied a third shipment of Crossley's specimens, collected southeast of Antananarivo, in which he did not find any taxonomic novelty (Sharpe 1872). Between 1873 and 1875, Crossley went to Antongil Bay and then from Toamasina to Morondava (Tattersall 1986). Specimens of lemurs attest to his collecting activities in the eastern part of the country (Schlegel 1876; Jentink 1887).

In 1875, Sharpe studied a fourth consignment sent by Crossley, which contained some rare species and novelties. Unfortunately, the usual accompanying notes were missing from the collection, which complicated efforts to pinpoint the collecting sites. In 1875, Sharpe described *Eutriorchis astur* (Madagascar Serpent-eagle), a new genus and species of raptor; *Atelornis crossleyi* (Rufous-headed Ground-roller), a new ground-roller species collected in Ampasimaneva (mentioned

as "Ampasmonhavo"); *Neodrepanis coruscans* (Common Sunbird-asity), a new genus and species of asity; and finally, *Crossleyia xanthophrys* (Madagascar Yellowbrow) and *Xanthomixis zosterops* (Spectacled Tetraka), two species of the family Bernieridae. It is worth noting that Sharpe first described *Crossleyia xanthophrys* as *Oxylabes xanthorphys*, and the genus *Crossleyia* was created by German medical doctor, ornithologist, and zoologist Karel Johan Gustav Hartlaub (1814–1900) in 1877. Hartlaub was associated with the natural history museum of the city of Bremen. Crossley also sent a collection of mammals to Albert Günther (1830–1914) of the British Museum, including a specimen of a new lemur species, *Allocebus trichotis* (Hairy-eared Dwarf Lemur) (Günther 1875).

Crossley, like many other collectors, was overshadowed by the museum-based scientists who described species using the specimens he collected on Madagascar. However, his fieldwork significantly contributed to the advancement of knowledge on the island's plants, insects, birds, small mammals, and lemurs (Sharpe 1906; Dorr 1997; Carleton et al. 2014). Sharpe (1875) summarized this well: "I have been permitted to examine a very fine collection recently sent home by my old correspondent Mr. Crossley, whose investigations in the wonderful island of Madagascar will forever connect his name with the natural history of this part of the world."

Crossley left Madagascar in June 1875, returning to England via Mauritius, but was back in Madagascar in 1876. According to German naturalist and collector Josef-Peter Audebert (1848–1933), who arrived on the island in 1876, Crossley had died in 1877 (letter from Audebert to François Pollen, January 1878, Leiden Museum). Tattersall (1986), based on information reported in *Ny Diary Malagasy*, indicates that Crossley died in Madagascar on 28 February 1877. Crossley's death was confirmed by Sharpe, who referred to "the late Mr. Crossley" in a publication dated February 1879 (Sharpe 1879).

MALAGASY VERTEBRATE SPECIES NAMED AFTER A. CROSSLEY

1. ***Atelornis crossleyi*** **(Rufous-headed Ground-roller), described by Sharpe (1875)**
2. ***Mystacornis crossleyi*** **(Crossley's Vanga), described by Grandidier (1870)**
3. ***Crossleyia xanthophrys*** **(Madagascar Yellowbrow), described by Hartlaub (1877)**
4. ***Crossleyia tenebrosa*** **(Dusky Tetraka), described by Stresemann (1925)**
5. ***Cheirogaleus crossleyi*** **(Crossley's Dwarf Lemur), described by Grandidier (1870)**

FIGURE 1.2 **Portrait of Hermann Schlegel by Johan Heinrich Neuman, dated 1882. Schlegel, the second director of the Leiden Museum, Netherlands, encouraged the Dutch naturalist François Pollen to conduct a zoological mission to Madagascar.** (SOURCE: Naturalis Biodiversity Center, Leiden, Netherlands.)

visited Madagascar, compiled and updated lists of the island's birds based on specimens in the collections of various museums, such as those in Paris, Leiden, Vienna, and Stuttgart. The collections in Vienna were examined for Hartlaub by Austrian ornithologist August von Pelzeln (1875–1891), to whom Hartlaub dedicated *Tachybaptus pelzelnii* (Madagascar Grebe). Hartlaub published a book on the birds of Madagascar and the Mascarenes, covering 214 Malagasy species (Hartlaub 1877).

THE STATE OF EXPLORATION AND KNOWLEDGE BEFORE THE COLONIAL PERIOD (PRE-1896)

Africa was the scene of fierce struggle for religious and political influence between the British and the French during the 19th century, and this extended to Madagascar. To counterbalance the French influence, the London Missionary Society sent several envoys to the island. Many of those missionaries traveled to different areas and left some valuable testimonies of their observations of nature.

Among them, the Reverend William Deans Cowan (1844–1923) was clearly a keen observer and wrote about Malagasy lemurs and birds. His name is remembered today with a species of shrew tenrec (*Microgale cowani*) and three amphibians (*Mantella cowanii*, *Mantidactylus cowanii*, and *Platypelis cowanii*). The photographs made by Reverend William Ellis (1794–1872) (Figure 1.3) are among the first taken on Madagascar and remain his most precious legacy (Peers 1995). He traveled to Madagascar three times (1853, 1854, and 1856), passing from Toamasina to Antananarivo via Andasibe, and took an interest in natural history, collecting specimens

FIGURE 1.3 **Portrait of William Ellis engraved by W. Holl from a photograph by T. R. Williams. In his book *Three Visits to Madagascar* (1859), Ellis included notes on the natural history of Madagascar recorded during the three visits he made in 1853, 1854, and 1856.** (SOURCE: Ellis 1859.)

of flora and fauna, specifically mammals for the London natural history cabinet of Richard Owen (1804–1892) (Ellis 1859).

The Reverend James Sibree (1836–1929), also associated with the London Missionary Society, spent time on Madagascar between 1863 and 1915. Competition between France and Great Britain is illustrated by Sibree's criticism of one of his French contemporaries, Alfred Grandidier (1836–1921), who authored some of the most monumental publications on Madagascar. In his book *A Naturalist in Madagascar*, Sibree (1915) admitted that Grandidier's work was impressive but regretted that the volumes were in French, which he felt diminished their potential to advance scientific knowledge, and found their price exorbitant for the general public.

Sibree's major contribution to the knowledge of the fauna was through his work as the editor, between 1875 and 1900, of a naturalist journal, the *Antananarivo Annual and Madagascar Magazine*, which he published with his friend the Reverend Richard Baron (1847–1907). Aimed at the general public, the magazine presented information on the topography, natural history, and customs and traditions of Madagascar. Although it may seem surprising that topographic data was available at such an early date, rudimentary mapping of the island had commenced in 1871. Baron was a missionary on the island for 35 years, during which he collected many plants and published a significant synthesis of the island's phytogeography, the study of the geographic distribution of plants (Baron 1890). Some species of plants and animals are named after him, including a frog (*Mantella baroni*).

THE GRANDIDIER LEGACY: AN ERA OF MAJOR ADVANCEMENTS

Alfred Grandidier played a role of paramount importance in the exploration of Madagascar, and his name remains forever linked to the island. His interests included geography, nature, exploration, and ethnology. He traveled to Madagascar for the first time in 1865 with Jean Auguste Lantz (1828–1893), the first curator of the Muséum d'Histoire Naturelle de Saint-Denis de La Réunion (Dorr 1997). In 1866, Grandidier explored the southern and southwestern parts of the island, and in 1868 he visited the west and the Central Highlands. He obtained important collections of mammals, birds, reptiles, fishes, invertebrates, plants, fossils, minerals, and ethnographic objects, which are still used today by scientists. Lantz also visited Madagascar several times, collecting birds and lemurs for his museum, and met Pollen and van Dam on Nosy Be.

After he returned to France in 1870, Grandidier devoted the rest of his career to Madagascar (Figure 1.4) and in part worked on his collections in collaboration with Alphonse Milne Edwards (1835–1900), a zoologist from the Muséum National d'Histoire Naturelle in Paris. They pioneered the classification and systematic study of virtually all aspects of the fauna and flora of the island known at that time, publishing their work in the monumental *Histoire physique, naturelle et politique de Madagascar*, initially planned to be a 60-volume series. Toward the end of his life, Grandidier delegated the editorial task of continuing the series to his son Guillaume (1873–1957), an accomplished geographer, ethnologist, and zoologist. The series, ultimately comprising 39 volumes, was published over the course of 80 years and included volumes dedicated to the island's meteorology, ethnography, politics and history, mosses, plants, mammals, birds, fishes, reptiles, and some families of insects and other invertebrates, and even today represents an important reference work.

Alfred Grandidier and Milne Edwards were the principal authors for the volumes on mammals (in collaboration with French physician and zoologist Henri Filhol [1843–1903] and Guillaume Grandidier). They also wrote the volume on birds, to which Louis Lavauden (1881–1935), an engineer for the Département des Eaux et Forêts, added a supplement (Lavauden 1937). French paleontologist and ichthyologist Henri Emile Sauvage (1842–1917) contributed to the volume on fishes. French herpetologist and ornithologist Léon Louis Vaillant (1834–1914) and Guillaume Grandidier wrote the only volume on reptiles, which covered crocodiles and turtles (Vaillant and Grandidier 1910).

Alfred Grandidier's contribution to the history and natural science knowledge of Madagascar is unparalleled. He was one of the founders of the Comité de Madagascar and edited the journal *La Revue de Madagascar*. He also published the *Collection des ouvrages anciens concernant Madagascar*, a compilation of works written between 1500 and 1800—mostly French publications, plus translations of virtually

FIGURE 1.4 **Alfred Grandidier's bookplate, or ex libris. Alfred Grandidier was not only a very prolific author; he amassed a personal library of over 17,000 references covering various subjects on Madagascar, which was bequeathed to the Académie Malgache.** (PHOTO by O. Langrand, courtesy of the Académie Malgache.)

all foreign-language publications—concerning the exploration of Madagascar. Grandidier was a role model for numerous scientists, including his son Guillaume. Guillaume Grandidier made several visits to the western and eastern coasts and to the extreme south of the island and continued to collect birds, insects, plants, and fossils.

Alfred Grandidier described a great number of animal species, and his major contribution to the advancement of natural history of the island is immortalized in the names of a skink genus (*Grandidierina*) and nine faunal species: a fish (*Ptychochromis grandidieri*); a frog (*Mantidactylus grandidieri*); two snakes (*Liopholidophis grandidieri* and *Xenotyphlops grandidieri*); one iguanid (*Oplurus grandidieri*); one bird, the Madagascar Spinetail (*Zoonavena grandidieri*); one shrew tenrec (*Microgale grandidieri*); and a rodent (*Eliurus grandidieri*). With *Megaladapis grandidieri*, a giant lemur, and *Aldabrachelys grandidieri*, a giant tortoise, Grandidier also left his mark on the subfossil fauna. Alphonse Milne Edwards is remembered through two giant subfossil lemurs (*Archaeolemur edwardsi* and *Megaladapis edwardsi*), the nocturnal *Lepilemur edwardsi* (Milne-Edwards' Sportive Lemur), and the diurnal *Propithecus edwardsi* (Milne-Edwards' Sifaka) (Figures 1.5a and b).

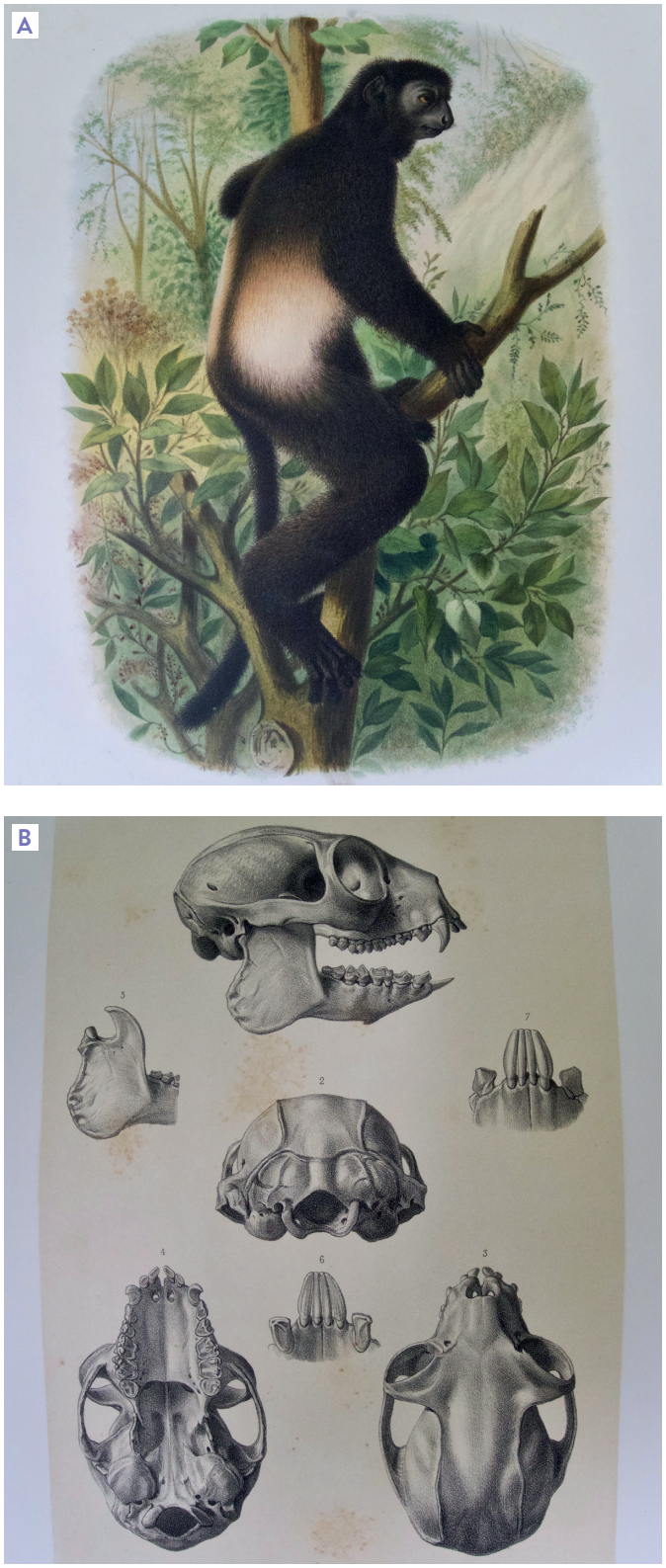

FIGURE 1.5 **Plates of *Propithecus edwardsi* (Milne-Edwards' Sifaka) from the volume dedicated to lemurs in the monumental *Histoire physique, naturelle et politique de Madagascar*. A) Species depicted in the wild. B) Craniums, mandibles, and teeth. Alfred Grandidier described this species in 1871 and named it after his coauthor Alphonse Milne Edwards.** (SOURCE: Grandidier 1875.)

OTHER EXPLORERS ON THE EVE OF THE 20th CENTURY

Other major collectors at the end of the 19th century, many of whom were contemporaries of Alfred Grandidier, included Charles Immanuel Forsyth Major (1843–1923), of British Swiss origin, and Johann Maria Hildebrandt (1847–1881), of Germany. Forsyth Major collected intensively on an extended expedition to the island from 1894 to 1896. His work provided a comprehensive and systematic knowledge of the mammal fauna of the central east. He described three new genera and 13 new species of mammals, and his collections led to the description of seven other mammal species (Jenkins and Carleton 2005). Five vertebrate species are named in his honor: two frogs (*Boophis majori* and *Mantidactylus majori*), one shrew tenrec (*Microgale majori*), one rodent (*Eliurus majori*), and one bat (*Miniopterus majori*).

FIGURE 1.6 **Carl Ebenau, a zoologist who lived on Madagascar from 1880 to 1890, collected specimens of amphibians and reptiles, and sent them to Oskar Boettger at the Senckenberg Museum in Frankfurt, Germany. In 1879, Boettger described a new species of leaf-tailed lizard of the genus *Uroplatus*, and named it after Ebenau. The type specimen of *U. ebenaui* is housed in the Senckenberg Museum.** (PHOTO by O. Langrand, courtesy of the Senckenberg Museum.)

Hildebrandt, a collector for the Berlin Museum, now known as Museum für Naturkunde, spent two years on the island in 1879–1881. He mostly collected plants but also participated in the discovery of an extinct dwarf hippopotamus. He died at the age of 34 in Antananarivo and is buried in the Norwegian cemetery of Ambatovinaky (Beentje 1998). One reptile species (*Paracontias hildebrandti*) and one extinct elephant bird species (*Aepyornis hildebrandti*) honor him (Goodman and Jungers 2014).

The Frenchman Léon Humblot (1852–1914) collected specimens while on missions to Madagascar between 1878 and 1883. Humblot worked in the northern and eastern parts of the island, and his specimens were sent to Alfred Grandidier. The localities where Humblot collected specimens, at least for bats, were in some cases confused (Goodman and Ranivo 2009). One endemic species of bird is named after him, *Ardea humbloti* (Madagascar Heron).

Collections from Madagascar were sent to European museums, where eminent scholars studied the specimens. Individuals participating in the description of new vertebrate species from Madagascar toward the end of the 19th century included André Marie Constant Duméril (1774–1860), François Mocquard (1834–1917), and Pieter Bleeker (1819–1878) at the Muséum National d'Histoire Naturelle, Paris; Wilhelm Carl Hartwig Peters (1815–1883) at the Museum für Naturkunde, Berlin; John Edward Gray (1800–1875), Albert Günther (1830–1914), Richard Bowdler Sharpe (1847–1909), and George Albert Boulenger (1858–1937) at the British Museum (now the Natural History Museum), London; Oskar Boettger (1844–1910) at the Senckenberg Museum, Frankfurt (Figure 1.6); and Mario Giacinto Perraca (1861–1923) at the Museo Regionale di Scienze Naturali, Turin.

RESEARCH EFFORTS DURING THE COLONIAL PERIOD

In 1896, the French parliament passed an annexation law, and Madagascar officially became a colony of France. In 1902, General Joseph Galliéni, the governor of Madagascar, created a new colonial institution, the Académie Malgache, with the intent to merge in one structure research efforts on the island conducted by scholars from France as well as Madagascar and other nations. For several decades, researchers associated with the Académie Malgache and with the Muséum National d'Histoire Naturelle in Paris published monographs and articles in the *Bulletin de l'Académie Malgache* and in the *Mémoires de l'Académie Malgache*. Jacques Pellegrin (1873–1944) published through the Académie Malgache a monograph on freshwater fishes (Pellegrin 1933), and a monograph on lizards by Fernand Angel followed (Angel 1942).

Important advancements occurred in the first portion of the 20th century, specifically in 1929 with the launch of the Mission Zoologique Franco-Anglo-Américaine, which ended in 1931. Jean Delacour (1890–1985) from the Muséum National d'Histoire Naturelle, Paris; Willoughby Prescott Lowe (1872–1949) from the British Museum (Natural History Museum), London; and Leland C. Sanford (1868–1950) from the American Museum of Natural History, New York, were its initiators. Members of the expedition

included Delacour, Lowe, Richard Archbold (mammal collector, 1907–1976), Austin L. Rand (ornithologist, 1905–1982), James Cowan Greenway (ornithologist, 1903–1989), Errol White (paleontologist, 1901–1985), and Cecil Stanley Webb (live animal collector, 1898–1964). Raymond Decary (1891–1973), the director of the Recherche Scientifique Coloniale, replaced Delacour as the expedition leader in 1930. Philip A. DuMont (1903–1996) from the American Museum of Natural History joined the team in January 1930. The mission gathered an impressive quantity of specimens, including about 12,000 birds and hundreds of mammal, reptile, amphibian, and fish samples. Further, collections bought from Charles Herschell-Chauvin (1875–1959), a French trader, augmented the collection (see Box 3).

Reporting on the mission was the responsibility of Delacour, who published the systematic part of the ornithological work (Delacour 1932a, 1932b). Rand also wrote two publications on birds (Rand 1932, 1936) and another on mammals (Rand 1935). The mission's results included descriptions of 13 new forms of birds: 10 new subspecies, two new species (Figure 1.7), and one new genus (Rand 1936). Reports provided details on habitats, behavior, distribution, and migration patterns. Decary published a considerable amount on the mission and on his own collections. He left a collection of 4300 publications on Madagascar to the Académie des Sciences d'Outre Mer in Paris (Decary 1946, 1947; Balard 2003).

Several species of birds and other vertebrates were named after the expedition members. Rand was honored with *Randia pseudozosterops* (Rand's Warbler), representing the new genus discovered during the mission and now placed in the endemic family Bernieridae (see Reddy and Schulenberg, pp. 1621–26). Archbold left his name to a new species of passerine, *Newtonia archboldi* (Archbold's Newtonia), and Decary to three reptile species, including the dwarf chameleon *Brookesia decaryi*, and an amphibian, *Gephyromantis decaryi*. Archbold (1932) described a new subspecies of brown lemur from the island's extreme north, subsequently elevated to a full species, *Eulemur sanfordi* (Sanford's Brown Lemur), which he dedicated to one of the mission's organizers, Leland C. Sanford.

Post–World War II until the end of the 1960s, the Académie Malgache and the Institut de Recherche Scientifique de Madagascar (IRSM)—an affiliate institute of the Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), which was renamed subsequently the Institut de Recherche pour le Développement (IRD)—supported frequent zoological expeditions. French researchers, with occasional collaborators from other countries, collected specimens in the fields of entomology, ichthyology, herpetology, ornithology, and mammalogy. Researchers were from the IRSM, the Institut Pasteur de Madagascar (IPM), the Centre National de la Recherche Scientifique (CNRS), and the Centre Technique Forestier Tropical (CTFT). Specimens collected during this period, which was one of hegemony for French research institutions, augmented the holdings of the Muséum National d'Histoire Naturelle, Paris, and the Académie Malgache, Antananarivo.

The results of hundreds of missions and field projects, particularly in many cases the associated scientific specimens, have been incorporated in the *Faune de Madagascar*, a monograph series created by Renaud Paulian (1913–2003), an entomologist and deputy director of IRSM from 1947 to 1961. The first volume in the series

FIGURE 1.7 **In 1932, Jean Delacour described a new species of grebe, *Tachybaptus rufolavatus*, from Lake Alaotra, Madagascar. The type specimen of this endemic species, collected on 7 June 1929 at Andreba, is deposited in the Muséum National d'Histoire Naturelle (MNHN) in Paris, France. The Alaotra Grebe is now considered extinct.** (PHOTO by O. Langrand, courtesy of the MNHN.)

came out in 1956. Since 2003, the series has been published by three research institutions: the Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), the IRD, and the Muséum National d'Histoire Naturelle, Paris. Nearly 90 monographs on vertebrates and invertebrates were published in the series. Publications from this same period also appeared in the *Bulletin de l'Académie Malgache*, *Le Naturaliste Malgache*, and the *Mémoires de l'Institut Scientifique de Madagascar*. Jacques Millot (1897–1980), a zoologist and director of IRSM, published a monograph on Malagasy arachnids (Millot 1948).

In ichthyology, Jacques Arnoult (1914–1995), the director of the vivarium at the Parc de Tsimbazaza between 1959 and 1963,

BOX 3 CHARLES HERSCHELL-CHAUVIN (1875–1959), FRENCH GENERAL TRADER, WILDLIFE SPECIMEN TRADER, PHOTOGRAPHER, ON MADAGASCAR BETWEEN 18?? AND 1959

F. ANDRIAMIALISOA AND O. LANGRAND

CHARLES HERSCHELL-CHAUVIN was born on 14 August 1875 at Grand Port, Mauritius. He settled in Toamasina, where he operated a general store. The 1905 *Guide annuaire de Madagascar et Dépendances* (République Française 1905) described his business as: "Grand assortiment d'articles de ménage. Épicerie, quincaillerie, literie, vins fins. Photographies, vues, cartes postales et curiosités du pays [Large assortment of household items. Groceries, hardware, bedding, fine wines. Photographs, postcards, and curiosities of the country]."

A friend of Herschell-Chauvin, Edouard Perrot (1863–1903), a naturalist and professional photographer, was also born on Mauritius and settled in Toamasina, arriving in 1894. Perrot appeared as the witness on the birth certificate of Conrad Herschell-Chauvin (1902–1985), the first of Herschell-Chauvin's five children. Charles Herschell-Chauvin, in turn, was the witness on Perrot's death certificate. It is very likely that Perrot had a strong influence on the professional orientation of Herschell-Chauvin, both as a wildlife specimen trader and as a photographer.

Herschell-Chauvin published postcards based on his own images depicting landscapes, infrastructure, and daily scenes of people from eastern Madagascar (Figure 1.8). He also documented the devastating impacts of the cyclone of 3 March 1927 in Toamasina.

Until World War II, Herschell-Chauvin sold wildlife specimens, mostly birds but also insects, amphibians, reptiles, and probably mammals, to scientists and museums of the world. Herschell-Chauvin also collected specimens himself, as he did from May to December 1911, when he accompanied Paul Methuen (1886–1974) on a mission to different parts of southern and eastern Madagascar associated with work on reptiles. Their collections yielded the description of a new gecko, *Phelsuma standingi* (Methuen and Hewitt 1913a). As a general procedure, Herschell-Chauvin established camps in the forest, particularly in the central east, and had hunters work with him (Lamberton 1927). The specimens from the Herschell-Chauvin collections are labeled, for example, "Folohy" (Ivoloina), "Maroantsetra," "Sihanaka Forest," "Vokarakaro," or simply "Eastern Region." Rand (1936) indicated that to augment the series of birds from the eastern forest obtained during the large-scale Franco-Anglo-Américaine mission (1929–1931), he bought bird skins from Herschell-Chauvin collected in the Sihanaka Forest. Rand noted that the colors of some specimens were altered as they were dried above a fire or handled in areas saturated with smoke.

The Swedish Royal Museum of Natural History in Stockholm purchased a small collection of bird skins from Herschell-Chauvin. Among those was a specimen Herschell-Chauvin collected in December 1931 in Fanovana that was described by Nils Gyldenstolpe (1886–1961) as a species new to science, *Newtonia fanovanae* (Red-tailed Newtonia) (Gyldenstolpe 1933). Philippe Milon (1908–1993), the first author of the bird volume in the series *Faune de Madagascar* (Milon et al. 1973), also bought many bird skins from Herschell-Chauvin, which he later deposited in the Muséum National d'Histoire Naturelle, Paris. Methuen bought specimens of amphibians and reptiles from Herschell-Chauvin that led to the description of three species new to science (Methuen and Hewitt 1913b).

Through the specimens collected, Herschell-Chauvin's commercial activities contributed significantly to the discovery of a range of different Malagasy organisms (Lamberton 1927; Paulian 1954). Despite his contributions, no species of vertebrates recognized today are named after him. *Chameleon chauvini*, described by Methuen and Hewitt (1913a), was subsequently considered a synonym of *Calumma furcifer* (Gehring et al. 2010); and *Asio chauvini*, described by Lamberton (1927), turned out to be an aberrant form of *Asio madagascariensis* (Madagascar Long-eared Owl) (Delacour 1932b). Herschell-Chauvin later left Toamasina, resettling in Ankadifotsy in Antananarivo. He died in the capital on 7 September 1959.

FIGURE 1.8 **Charles Herschell-Chauvin was a collector and dealer of faunal specimens, many of which ended up in different European and American museum collections. He was also a photographer and published postcards capturing scenes typical of the beginning of the 20th century, such as transport in a sedan chair, or *filanzana*, as it is known locally.** (PHOTO by C. Herschell-Chauvin, 1909.)

published a monograph on freshwater fishes in the *Faune de Madagascar* series (Arnoult 1959). Other ichthyologists active in that period included Yves Thérézien (1925–2015), an inspector in the Département des Eaux et Forêts between 1960 and 1966; André Kiener (1920–2009), the conservator of the Département des Eaux et Forêts and chief of the fish-breeding research division in the early 1960s; and André Maugé (1922–2008), the general secretary of IRSM in 1958. Two fishes are named after Arnoult (*Gobitrichinotus arnoulti* and *Pachypanchax arnoulti*), one after Thérézien (*Acentrogobius therezieni*), and two after Kiener (*Paretroplus kieneri* and *Teramulus kieneri*).

A number of researchers and scientific institutions focused their attention on reptiles and amphibians: Charles Blanc, Edouard-Raoul Brygoo (1920–2016), Charles Domergue (1914–2008), Paul Griveaud (1907–1980), Jean Guibé (1910–1999), Harald Meier (1922–2007), Georges Pasteur (1930–2015), and André Peyriéras (1927–2018). Guibé published a systematic revision of Malagasy snakes followed by the first monograph on the frogs of Madagascar (Guibé 1958, 1978). Roland Albignac, Arnoult, René Capuron (1921–1971), Paulian, Jean-Jacques Petter (1927–2002), Thérézien, and Jean Vadon (1904–1970) were among the field scientists and often collectors who contributed significantly to the advancement of knowledge of amphibians and reptiles. Several species of reptiles and amphibians bear the names of this generation of scientists. Guibé is honored with a genus of amphibian (*Guibemantis*), two frog species (*Spinomantis guibei* and *Boophis guibei*), and two reptiles (*Lygodactylus guibei* and *Calumma guibei*); Domergue with one amphibian (*Blommersia domerguei*) and one reptile (*Madatyphlops domerguei*). One dwarf chameleon is named after Griveaud (*Brookesia griveaudi*), one after Vadon (*B. vadoni*), and one after Thérézien (*B. therezieni*), who also left his name to a snake (*Liophidium therezieni*). Two reptiles (*B. brygooi* and *Zonosaurus brygooi*) are dedicated to Brygoo. A frog (*Mantella haraldmeieri*) and a lizard (*Z. haraldmeieri*) are named in recognition of Meier. The botanist Capuron and the zoologist Petter left their names to two chameleons, *Calumma capuroni* and *Furcifer petteri*, respectively. The ichthyologist Arnoult is honored with a gecko (*Lygodactylus arnoulti*), and the entomologist Paulian with a gecko (*L. pauliani*) and two amphibians (*Boophis pauliani* and *Mantidactylus pauliani*). A snake (*Ithycyphus blanci*), a gecko (*Lygodactylus blanci*), and a frog (*Gephyromantis blanci*) inherited Blanc's name. A bat (*Miniopterus griveaudi*) is named in honor of Griveaud.

POST-INDEPENDENCE ZOOLOGICAL EXPLORATION

Before Madagascar gained independence, scientific research was under the tutelage of France, as the colonial power, and therefore dominated by French institutions. Madagascar became independent on 26 June 1960, and for a transitional period, research occurred under French-Malagasy joint supervision, with gradual transfer of capacity and authority. From 1960 to 1972, reduced financing had major consequences on research activities, but French researchers remained strongly involved and organized numerous expeditions and surveys. The year 1972 saw great political changes on Madagascar with the proclamation of the Second Republic. Cooperation agreements were revised, and Malagasy authorities made clear their wish to operate national research structures without the contribution of foreign specialists (Menu and Roederer 2010). The period saw an exodus of foreign scientists and few avenues for international collaboration in scientific research. The number of expatriate staff at ORSTOM dropped from 76 in 1972 to seven in 1975, and by 1976 the office's only remaining activity was hydrology. Virtually no visas for foreign researchers were granted between 1975 and 1985 (Jolly and Sussman 2007).

Paulian left Madagascar in 1961 after a postindependence change of leadership at ORSTOM. However, he pursued his involvement through the continued supervision of the publication of *Faune de Madagascar* and, in the 1960s and early 1970s, by coordinating and initiating the Recherche Coopérative sur Programme (RCP) no. 225 under the CNRS, which conducted field missions to several high-mountain areas on the island. Sites surveyed by a multidisciplinary group of geologists, botanists, and zoologists included Tsaratanàna, Marojejy, Itremo, Ibity, Analavelona, and Andohahela (Paulian et al. 1971, 1973; Guillaumet et al. 1975).

The taxonomy of fishes saw little progress from the 1960s through the 1980s, with only a few descriptions by established ichthyologists such as Kiener, Arnoult, and Maugé. In contrast, herpetology was a much more dynamic field during this period, with the continuation of work by scientists such as Brygoo, Domergue, and Guibé. Domergue, an ornithologist and herpetologist by passion, worked on the island from 1959 to 1971 as a geologist in the national hydrology department and was involved in the installation of wells and boreholes in numerous remote areas of the south. He pursued research on snake taxonomy, which led to the description of about 20 new species between 1983 and 1986 (Domergue 1983, 1984a, 1984b, 1986).

Brygoo was a physician by trade and a naturalist by passion, and his research program was a rather remarkable mixture of these two aspects. He was deputy director and then director of the Institut Pasteur de Madagascar from 1954 to 1974. He conducted many faunal surveys with Blanc and Domergue. Brygoo described 25 new species of reptiles, mostly chameleons, between 1966 and 1981 and wrote two monographs on this group published in the *Faune de Madagascar* series (Brygoo 1971, 1978).

In the postindependence period, for the first time, a Malagasy scientist, Guy Ramanantsoa, played a major role in taxonomic research. Ramanantsoa described the chameleons *Calumma ambreense* (Ramanantsoa 1974) and *Brookesia bonsi* (Ramanantsoa 1980). The head of the Département des Eaux et Forêts at the Ecole Supérieure des Sciences Agronomiques (Water and Forest Department, School of Agronomy, known as ESSA-Forêts), Université d'Antananarivo, Ramanantsoa was instrumental in the identification, creation, and subsequent management of the Bezà-Mahafaly protected area, in collaboration with primatologists Alison Richard and Robert W. Sussman (1941–2016). A species of chameleon, *B. ramanantsoai*, is named after him.

During the reign of the French institutions (i.e., before independence), little work was devoted to ornithology. Perhaps this is because the Mission Zoologique Franco-Anglo-Américaine of 1929–1931 was such a success for ornithology that scientists felt

there was little left to discover. Three naturalists working in the field of ornithology, Philippe Milon (1908–1993), Petter, and Georges Randrianasolo (c. 1930–1989), continued collecting information on Malagasy birds and compiled a volume for *Faune de Madagascar* (Milon et al. 1973) (Figure 1.9). Randrianasolo started out as an assistant to Milon in 1947, at the age of 17, and was trained to prepare specimens. An important scientific career awaited Randrianasolo (see Box 4).

Petter, Albignac, Yves Rumpler, and Peyriéras worked on mammals during the period before and after independence. They authored monographs in the *Faune de Madagascar* series on Malagasy carnivorans (Albignac 1973) and lemurs (Petter et al. 1977). Petter, a veterinarian and primatologist, started his work on Madagascar in 1956 in collaboration with his wife, Arlette Petter-Rousseaux. They undertook a mission around the country to survey lemur species and study their social behavior and reproduction. The mission was sponsored by Millot, then director of IRSM. Petter and Petter-Rousseaux published numerous scientific articles on their fieldwork and other aspects of their studies, considerably improving the state of knowledge on lemurs. They also described the genus *Allocebus* (Petter-Rousseaux and Petter 1967). Petter-Rousseaux is the only woman to have described a genus of Malagasy primate. Petter's work stimulated much subsequent research. Genetic and karyological research took off under the supervision of Rumpler, from the Faculté de Médecine, Université de Strasbourg, France. Albignac, associated with ORSTOM, brought to mammal research a combination of scientific training and fieldwork experience. Researchers active in mammal fieldwork during this period also included Randrianasolo (see Box 4), Peyriéras (see Box 5), and Eugène Ursch (1882–1962), and nonresident researchers such as Pierre Charles-Dominique, Annette Hladik, Claude Marcel Hladik, and Georges Pariente (1937–1976).

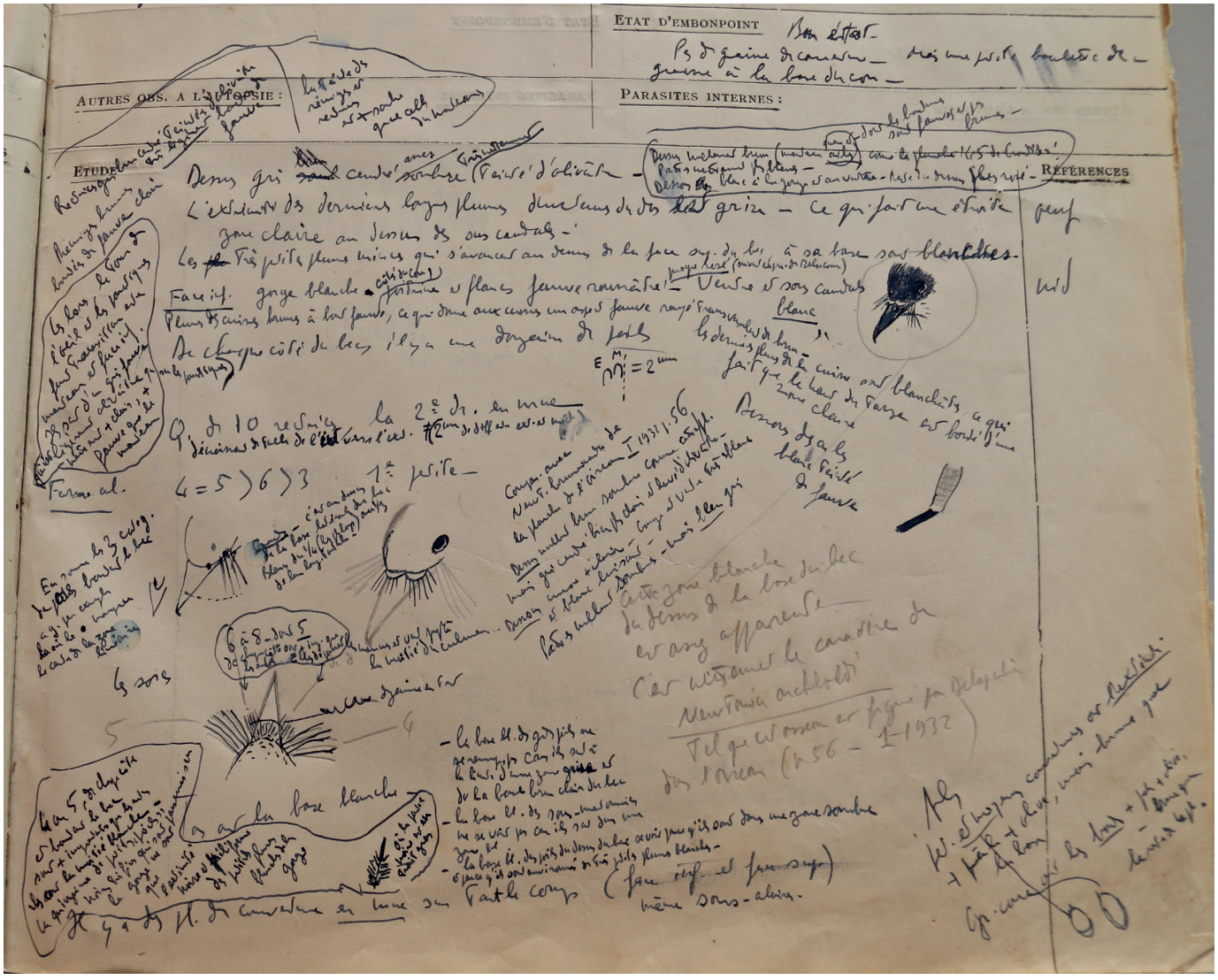

FIGURE 1.9 **Philippe Milon was an officer of the French army stationed on Madagascar. He was a passionate ornithologist who observed and collected birds in various parts of the island. He wrote very precise notes associated with the specimens he collected and deposited in the Muséum National d'Histoire Naturelle (MNHN), in Paris, France. The notes from Milon's specimen catalog presented here refer to a specimen of *Newtonia brunneicauda* (Common Newtonia) collected at Orangea (Oronjia) on 25 March 1947.** (PHOTO by O. Langrand, courtesy of the MNHN.)

BOX 4 GEORGES RANDRIANASOLO (C. 1930–1989), MALAGASY BOTANIST, ENTOMOLOGIST, ORNITHOLOGIST, MAMMOLOGIST, NATURALIST

F. ANDRIAMIALISOA AND O. LANGRAND

THE EXACT DATE when and the location where Georges Randrianasolo was born are not known. From October 1947, starting when he was about 17 years old, to September 1948, Randrianasolo was an ornithological research assistant to Philippe Milon (1908–1993), who was a squadron commander for the French Army based in Toliara and an accomplished ornithologist. This was the beginning of a collaboration that culminated with the publication of a volume on the birds in the series *Faune de Madagascar* (Milon et al. 1973). In 1952, Randrianasolo worked as a forestry auxiliary guard with the Service des Eaux et Forêts, based in Farafangana, and was registered as plant collector no. 208 of the Service Forestier.

He frequently accompanied visiting scientists, naturalists, and filmmakers. In 1960, while employed by the Institut de Recherche Scientifique de Madagascar (IRSM), Randrianasolo spent four months traveling around Madagascar with Sir David Attenborough (Figure 1.10) and cameraman Geoffrey Mulligan for the BBC TV series *Zoo Quest to Madagascar*, broadcast in 1961 (Attenborough 1961). In 1966, he accompanied Ike and Jean Russell, Paul Martin, and Alan Walker to Ampasambazimba in the Central Highlands and to Lake Alaotra to look for fossils (Walker 2010). In 1973, he led Dafila Scott and Joanna Lubbock, from Slimbridge Wildfowl Trust in the United Kingdom, to the island's west, as a guide and interpreter (Scott and Lubbock 1974). In 1985, he accompanied primatologist Alison Jolly (1937–2014) and photographer Frans Lanting, who were preparing an article on nature conservation for *National Geographic* magazine (Jolly 1988). Lanting considered Randrianasolo one of the country's greatest naturalists (Jolly 2015). They worked together in Beroboka, north of Morondava, to document local endemics that had rarely been photographed.

Between 1970 and 1977, Randrianasolo collected *Lepilemur* specimens in the region of Antsalova, including some distant localities, which would subsequently be used in a taxonomic revision of this genus (Andriaholinirina et al. 2006). He worked for the Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM) as a zoologist, caring for the lemurs in the Parc Botanique et Zoologique de Tsimbazaza. In 1978, he became the director of the Tsimbazaza park and occupied this post until 1986, when he retired. He continued to live in a house on the park premises with his family. He died in Antananarivo in 1989.

During his career, Randrianasolo worked with many scientists including Roland Albignac, Paul Griveaud, Philippe Milon, Renaud Paulian, Jean-Jacques Petter, André Peyriéras (see Box 5), and Yves Rumpler. The specimens of plants, invertebrates, and vertebrates he collected in different portions of the island led to the discovery of several species new to science, but he was never associated with these formal scientific descriptions. Only Milon and Petter gave him coauthorship, for their monograph on the birds of Madagascar (Milon et al. 1973).

FIGURE 1.10 **Georges Randrianasolo was trained as an ornithologist by Philippe Milon. He was an excellent field naturalist who worked with many scientists on Madagascar. In 1960, he accompanied Sir David Attenborough to document the unique biodiversity of Madagascar for the BBC. The photo, taken in November 1960, shows Randrianasolo dismantling an illegal lemur trap set in the Ankarafantsika Forest Reserve.** (PHOTO by Sir D. Attenborough.)

MALAGASY VERTEBRATE SPECIES NAMED AFTER G. RANDRIANASOLO

1. *Cryptosylvicola randrianasoloi* (Cryptic Warbler), described by Goodman et al. (1996)
2. *Lepilemur randrianasoloi* (Bemaraha Sportive Lemur), described by Andriaholinirina et al. (2006)

BOX 5 ANDRÉ PEYRIÉRAS (1927–2018), FRENCH ENTOMOLOGIST, NATURALIST, PRIMATOLOGIST, AND HERPETOLOGIST, ON MADAGASCAR BETWEEN 1954 AND 2005

F. ANDRIAMIALISOA AND O. LANGRAND

ANDRÉ PEYRIÉRAS was born on 11 December 1927 in Saint-Moreil, France, and died on 24 December 2018 in Limoges, France. He showed an interest in insects at an early age, starting his first collections at seven years old, for his teacher in his home village of Bujaleuf (Compère 2014). A self-taught scientist, he became an expert entomologist and had extensive knowledge on primates, carnivorans, reptiles, amphibians, and birds.

He started as a carpenter in Paris and came to Madagascar in 1954 to work for a forester based in Maroantsetra, in the northeast. There, he met Jean Vadon (1904–1970), the local school director and a keen entomologist. Vadon mentored Peyriéras, who started collecting and studying Malagasy Coleoptera. Peyriéras presented his PhD thesis, on the Scaratinae, a subfamily of ground beetles, at the Université de Montpellier, France, in 1974. A portion of his thesis was published in 1976 as volume 41 in *Faune de Madagascar* (Peyriéras and Basilewski 1976).

As a naturalist, Peyriéras acquired significant knowledge on a variety of Malagasy faunal groups other than insects. He traveled extensively around the island, spending extended periods of time in the field and in remote areas. He established a network of insect collectors who also acquired information on land vertebrates. His knowledge of and personal experience with Madagascar biodiversity were exceptional. He acquired detailed information on the high level of specificity in the plants that different butterfly species use at various stages of their development.

In the late 1970s, Peyriéras met Dominique Halleux (see Box 8), who had just been appointed by the French Ministère de la Coopération as an agronomist in charge of the development of coffee production in the region of Maroantsetra. A keen naturalist and birdwatcher in his home country, Halleux was very appreciative of Peyriéras's mentorship and started looking for rare birds and mammals around Maroantsetra and on the Masoala Peninsula.

Peyriéras worked closely with many entomologists and other scientists living in or visiting Madagascar, including Roland Albignac, Edouard-Raoul Brygoo, Charles Blanc, Charles Domergue, Paul Griveaud, Jean-Jacques Petter, Georges Randrianasolo (see Box 4), and Yves Rumpler. Peyriéras was for many years closely associated with the Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM), at its main office in Antananarivo. In 1972, Peyriéras was contracted by ORSTOM and slated to replace Griveaud, who was planning to retire in 1973, but his career in this organization was abruptly halted by the nationalization program initiated by the Malagasy authorities in the context of the move toward socialism (Brown 1995; Lacroix 1998).

In the 1980s, Peyriéras resettled in Antananarivo in a large house next to Lake Mandroseza. He established there a facility for captive rearing of butterflies for exportation. This project was successful thanks to Peyriéras's considerable knowledge of the relationships between certain butterfly species and their specific food plants, acquired over the many years he spent observing these interactions in the wild. Later, he moved this facility to a large estate in Marozevo later known as the Mandraka Nature Farm, halfway between Antananarivo and Andasibe. There, he had more space to grow the plants he needed to continue rearing butterflies in captivity (Figure 1.11). Finally, he started breeding some Malagasy reptile and amphibian species in captivity and made the Mandraka Nature Farm a tourist attraction, where visitors could see and photograph many endemic species of insects, amphibians, reptiles, and mammals, some unusual and rare.

MALAGASY VERTEBRATE SPECIES NAMED AFTER A. PEYRIÉRAS

1. *Avahi peyrierasi* (Peyriéras' Woolly Lemur), described by Zaramody et al. (2006)
2. *Calumma peyrierasi*, a chameleon, described by Brygoo et al. (1974)
3. *Brookesia peyrierasi*, a dwarf chameleon, described by Brygoo and Domergue (1974)

FIGURE 1.11 **André Peyriéras was an accomplished naturalist and an expert entomologist who spent 50 years on Madagascar. In his own facilities in Antananarivo and Marozevo, Peyriéras, photographed here in 1985, raised a number of endemic vertebrate and invertebrate species, such as the iconic Comet Moth (*Argema mitrei*).** (PHOTO by Frans Lanting/Lanting.com.)

Between 1972 and 1985, a period of difficult political transition on Madagascar, a few researchers, such as American primatologist Alison Jolly (1937–2014) and British primatologist Alison Richard, maintained their research programs. These two scientists conducted studies on lemur behavior and biology in the south, the former at Berenty and the latter in the Bezà-Mahafaly protected area. British American primatologist Ian Tattersall, from the American Museum of Natural History, started studying lemurs on Madagascar in 1969 but was forced to leave in 1975 because of the political situation.

THE MODERN PERIOD: INTERNATIONAL COOPERATION, ENGAGEMENT OF MALAGASY SCIENTISTS, AND EXPANSION OF ZOOLOGICAL EXPLORATION

Key individuals from various foreign and national institutes, museums, and universities have played important roles in a very active period of biodiversity data collection since the 1980s. In numerous cases, field scientists have systematically applied standardized collection methods, optimizing the utilization of specimens. Researchers with different expertise often participate in field expeditions, and through this period there has been an ever-increasing integration of Malagasy students and researchers, who also have been involved in the subsequent analyses and publications. This has been an important step in ensuring a truly international scientific collaboration and provided practical training opportunities for Malagasy scientists.

Nature conservation organizations have and continue to play an important role, through their research and education programs, in augmenting the knowledge of the fauna and flora of Madagascar and training national scientists. The World Wildlife Fund for Nature (WWF) started its research program in the 1980s, followed by Conservation International (CI) and the Wildlife Conservation Society (WCS) in the 1990s. Three members of the WWF program on Madagascar had a key role in stimulating biodiversity research, training, and international collaboration. All three arrived on Madagascar in 1980 and before joining WWF were involved in independent research projects: Olivier Langrand worked on birds, Martin E. Nicoll (1954–2020) studied tenrecs (see Box 6), and Sheila M. O'Connor investigated lemurs.

Steven M. Goodman arrived on the island in 1989 (Figure 1.12). He initiated an ambitious multidisciplinary research program, launched under the auspices of the WWF in the context of the Ecology Training Program, started by Nicoll (see Box 6), which focused on training of Malagasy graduate students and biological inventories of poorly known or unknown forested areas. Subsequently, this program became an independent Malagasy nongovernmental organization called Association Vahatra, dedicated to the study of the terrestrial biodiversity of Madagascar. Founded with three Malagasy scientists, all of whom conducted their graduate studies in the context of the Ecology Training Program—herpetologist Achille P. Raselimanana, ornithologist Marie Jeanne Raherilalao, and mammologist Voahangy Soarimalala—Vahatra put a great emphasis on the training of Malagasy researchers to acquire excellent academic credentials and strong field experience. Many Malagasy scientists and students have taken part in field inventories conducted at over 820 sites across Madagascar (Figure 1.14). In addition, efforts have also been put into formal training, in collaboration with different national universities, particularly the Université d'Antananarivo. The focus of the four scientific members of Association Vahatra, both in support of Malagasy students and in collaboration with national and foreign scientists, has been mostly associated with land vertebrates. Vahatra scientists and students have published many scientific papers, considerably advancing knowledge on the vertebrates of Madagascar and in many cases associating Malagasy and foreign scientists, who participated in the research, analysis, and different forms of intellectual input. In addition, Vahatra has published a number of books (in French or bilingual French-English) on various Malagasy animal groups (ants, frogs, small mammals, carnivorans, bats, and birds), a three-volume set on the protected areas of Madagascar, and a remarkable account of the Holocene ecosystems of Madagascar (Goodman 2011, 2012; Raherilalao and Goodman 2011; Soarimalala and Goodman 2011; Goodman and Jungers 2013; Goodman and Raherilalao 2013; Andreone et al. 2014, 2018; Goodman et al. 2018; Fisher and Peeters 2019).

FIGURE 1.12 **Steven M. Goodman, together with many Malagasy and foreign scientists as well as national students, inventoried the biodiversity of over 820 sites on Madagascar, providing a clear picture of the distribution of vertebrate taxa. Goodman is photographed here in December 1999, in front of a pitfall trap line set at 1600 m in a marsh area in the Manambolo Valley, during a survey to assess the biological importance of the forest corridor linking Ranomafana and Andringitra.** (PHOTO by H. Schütz.)

BOX 6 MARTIN EDWIN NICOLL (1954–2020), BRITISH NATURALIST, MAMMOLOGIST, CONSERVATIONIST, ON MADAGASCAR FROM 1980 TO 2020

F. ANDRIAMIALISOA AND O. LANGRAND

MARTIN NICOLL was born on 17 April 1954 in Devizes, Wiltshire, United Kingdom. His father was in the Royal Air Force (RAF) and his mother a homemaker. The family, which included two older sisters, lived in RAF Compton Bassett, Wiltshire. At a young age, Nicoll showed an interest in nature and explored small neighboring streams looking for all types of tiny creatures. From 1962 to 1964, Nicoll's family lived in Gibraltar, where he scoured the seashore for crabs and shellfish. When the family lived in Pitreavie, Fife, Scotland, from 1964 to 1966, Nicoll spent extensive time exploring the area and developed his interest in birds and small mammals, such as dormice and bats. In 1970, after residing in Aden, Yemen (1966–1967); Northern Ireland (1968); and Cyprus (1969–1970), the family returned to Rosyth, Scotland, and Nicoll finished high school in Kirkcaldy. He attended the University of Aberdeen and obtained a bachelor of science with honors in zoology in 1976.

According to Paul Racey, Regius Professor Emeritus of Natural History at the University of Aberdeen and a world expert on bats, Nicoll was a keen observer and stood out among his peers for the originality of his mind. In the mid-1970s, Nicoll participated in an undergraduate expedition to the Seychelles, where his fascination for fruit bats and tenrecs led him to select the latter as the subject of his PhD dissertation. Nicoll undertook his graduate studies under the supervision of Racey, was one of Racey's first PhD students, and introduced his supervisor to the Seychelles and later to Madagascar. Nicoll secured a highly competitive Leverhulme Overseas Studentship and a North Atlantic Treaty Organization (NATO) Studentship to work on Praslin Island, Seychelles, for three years, from August 1977 to September 1980, studying the reproductive ecology of *Tenrec ecaudatus* (Tailless Tenrec), a member of the family Tenrecidae. He also completed a survey of the roosting sites of the Seychelles endemic *Coleura seychellensis* (Seychelles Sheath-tailed Bat) (Nicoll and Suttie 1982) and the regional endemic *Pteropus seychellensis* (Seychelles Flying Fox) (Nicoll and Racey 1981). After completing his field research, Nicoll visited Madagascar for the first time in October 1980, before returning to Scotland. He obtained his PhD in zoology from the University of Aberdeen (Nicoll 1982).

Subsequently, Nicoll was awarded a Harkness Fellowship to the United States. He started a postdoctoral program at the National Zoological Park, Smithsonian Institution, in Washington, DC, to work with Edwin Gould and John Eisenberg, both pioneers of tenrec biology. From 1982 to 1985, Nicoll conducted field research on Madagascar on the reproductive energetics of the Malagasy Tenrecidae and on the niche partitioning among small mammals in moist evergreen forests of Madagascar (Thompson and Nicoll 1986). His field study site was the Analamazaotra Forest near Andasibe (Périnet). He was based at the Hôtel de la Gare, the only hotel in Andasibe at that time, where he was one of the very few clients. Monsieur Joseph, the hotel manager, assisted Nicoll with the logistics at a time when supplies were scarce on the island. In 1985, Nicoll crossed paths with Alison Jolly and wildlife photographer Frans Lanting, who were on Madagascar for a National Geographic Society assignment (Figure 1.13). The article, published in 1987, featured Nicoll and his work on tenrecs and showed the magazine's readers the uniqueness of Madagascar's biodiversity as well as threats to its survival (Jolly 1987). In Antananarivo, Nicoll worked with Felix Rakotondraparany, who from 1982 to 2003 was the curator of reptiles and small mammals at the Parc Botanique et Zoologique de Tsimbazaza. It was at Tsimbazaza in 1985 that Nicoll first met Peter J. (PJ) Stephenson, who had just returned from surveying small mammals in Zahamena as part of a student expedition.

FIGURE 1.13 **During the 30 years he spent on Madagascar, Martin E. Nicoll, a tenrec specialist and conservationist, actively promoted the training of Malagasy scientists in biodiversity research and conservation and their involvement in field project implementation. Nicoll is photographed here in 1985 while conducting field research on the reproductive energetics of Tenrecidae in the Analamazaotra protected area.** (PHOTO by Frans Lanting/Lanting.com.)

In April 1986, WWF International planned to establish a new conservation initiative on the island, the Biodiversity and Protected Area Program. WWF selected Nicoll as the principal technical adviser and Olivier Langrand as technical adviser. As the process of getting signed approval from the Malagasy government took more time than anticipated, WWF decided in May 1986 to send Nicoll and Langrand to Gabon to undertake an assessment of the conservation of the country's forest ecosystems, including a management plan for the Lope Reserve (Nicoll and Langrand 1987). It was also a way for Jeff Sayer, their International Union for the Conservation of Nature (IUCN) supervisor, working on behalf of WWF International, to test how well the pair worked together. The approval process by the Malagasy authorities was further delayed, as the paperwork for the establishment of the new WWF program and the formal appointment of both advisers was in the hands of Rear Admiral Guy Sibon, Madagascar's minister of defense, who died in a plane crash on 24 May 1986.

Nicoll and Langrand finally arrived in Antananarivo in September 1986. They established the office of the WWF Programme Biodiversité et Aires Protégées at the Direction des Eaux et Forêts (DEF) in Nanisana, Antananarivo, under the direction of Philémon Randrianarijoana. For two years, Nicoll and Langrand, together with Malagasy DEF staff, including Jean-Prosper Abraham (a field botanist) and Joël Ratsirarson (a wildlife specialist trained at the Ecole de Faune de Garoua, Cameroon), visited all the protected areas existing in Madagascar at that time and some classified forests. This two-year island-wide survey was concluded with the publication of a large-scale review of Malagasy biodiversity and was a critical turning point for the advancement of a national conservation strategy and action plan for the island (Nicoll and Langrand 1989). Nicoll led the WWF Programme Biodiversité et Aires Protégées until 1992, and management plans for the protected areas of Ankarana, Montagne d'Ambre, and Marojejy and a strategic document for Andohahela were prepared under his supervision.

In parallel to his responsibilities at WWF, Nicoll held an honorary position at the University of Aberdeen between 1988 and 1992, as senior research associate, and became the assistant PhD supervisor of Stephenson, who studied tenrecs in the country from 1988 to 1990, building on Nicoll's early work on tenrec physiology and ecology. Nicoll helped ensure that the two students who acted as field assistants for Stephenson's tenrec work, Nasolo Hubert Neomane Rakotoarison (1961–1996) and Herilala Randriamahazo, were also able to benefit from training offered by Professor Racey's research lab in Aberdeen.

Nicoll promoted the participation and training of Malagasy students in field biodiversity work, leading to the creation, in 1991, at his initiative, of the WWF Madagascar Ecology Training Program. Nicoll selected promising students for training overseas, including Rakotondraparany, Randriamahazo, Rakotoarison, and Jeannot Randrianasy, who all went to the United Kingdom for six months of training at the Jersey Zoo and the University of Aberdeen, funded by the British Council. Rakotondraparany, a small-mammal specialist, would subsequently become Maître de Conférences and researcher in the Département de Biologie Animale (subsequently called Mention Zoologie et Biodiversité Animale), Université d'Antananarivo. Randriamahazo, a herpetologist, obtained his PhD at the University of Kyoto, Japan, and after several years as coordinator of the Turtle Survival Alliance on Madagascar, is now the marine program director at the Wildlife Conservation Society in Antananarivo. Rakotoarison, a primatologist, obtained a master's degree in 1992 and worked as curator of small mammals at the Parc Botanique et Zoologique de Tsimbazaza. Subsequently, he started work on his PhD, concerning nocturnal lemurs, but unfortunately died in a car accident. In 1992, the WWF's Ecology Training Program was placed under the technical supervision of Steven M. Goodman of the Field Museum of Natural History, Chicago.

On account of his work as one of the pioneers of research on tenrecs, from 1986 to 1994, Nicoll was appointed chairman of the IUCN Species Survival Commission (SSC) Insectivore, Tree-shrew, and Elephant-shrew Specialist Group. He coproduced the first conservation action plan for tenrecs (Nicoll and Rathbun 1990), and three decades later, based on his continued interest in these animals, coauthored an update on their status and conservation priorities (Stephenson et al. 2019).

In 1992, Nicoll left Madagascar for Nairobi to work as senior conservation adviser for the WWF Africa continent-wide program on strategic development and project design, support, and evaluation. In 1997, he returned to Madagascar to serve as a technical assistant for WWF, based in Antananarivo, to provide assistance for the protected area network. For six years, Nicoll provided support to newly created interregional offices and individual protected areas under the authority of ANGAP (Association Nationale pour la Gestion des Aires Protégées and now known as Madagascar National Parks) and offered his expertise on conservation management and national system planning.

In 2004, Nicoll became senior conservation adviser for the WWF Madagascar and Western Indian Ocean Programme office. This position involved different responsibilities, among them providing support to the Madagascar protected area system with respect to developing protected area management plans, assessing management effectiveness, conducting ecological monitoring, implementing the work program on protected areas of the United Nations Convention on Biological Diversity, supporting the Madagascar Foundation for Protected Areas and Biodiversity, and developing World Heritage Sites in collaboration with UNESCO. Nicoll was involved in the implementation of the Durban Vision, which had been formulated to operationalize the declaration made in 2003 by former president Ravalomanana to triple the surface size of the protected areas of Madagascar (Gardner et al. 2018; Langrand and Rene de Roland 2018).

Nicoll was a passionate and knowledgeable scientist and conservationist with an excellent knowledge of Madagascar's protected areas and biodiversity. He inspired, advised, and mentored many individuals who have dedicated their careers to documenting and conserving the biodiversity of Madagascar. Nicoll died in Toliara on 1 January 2020.

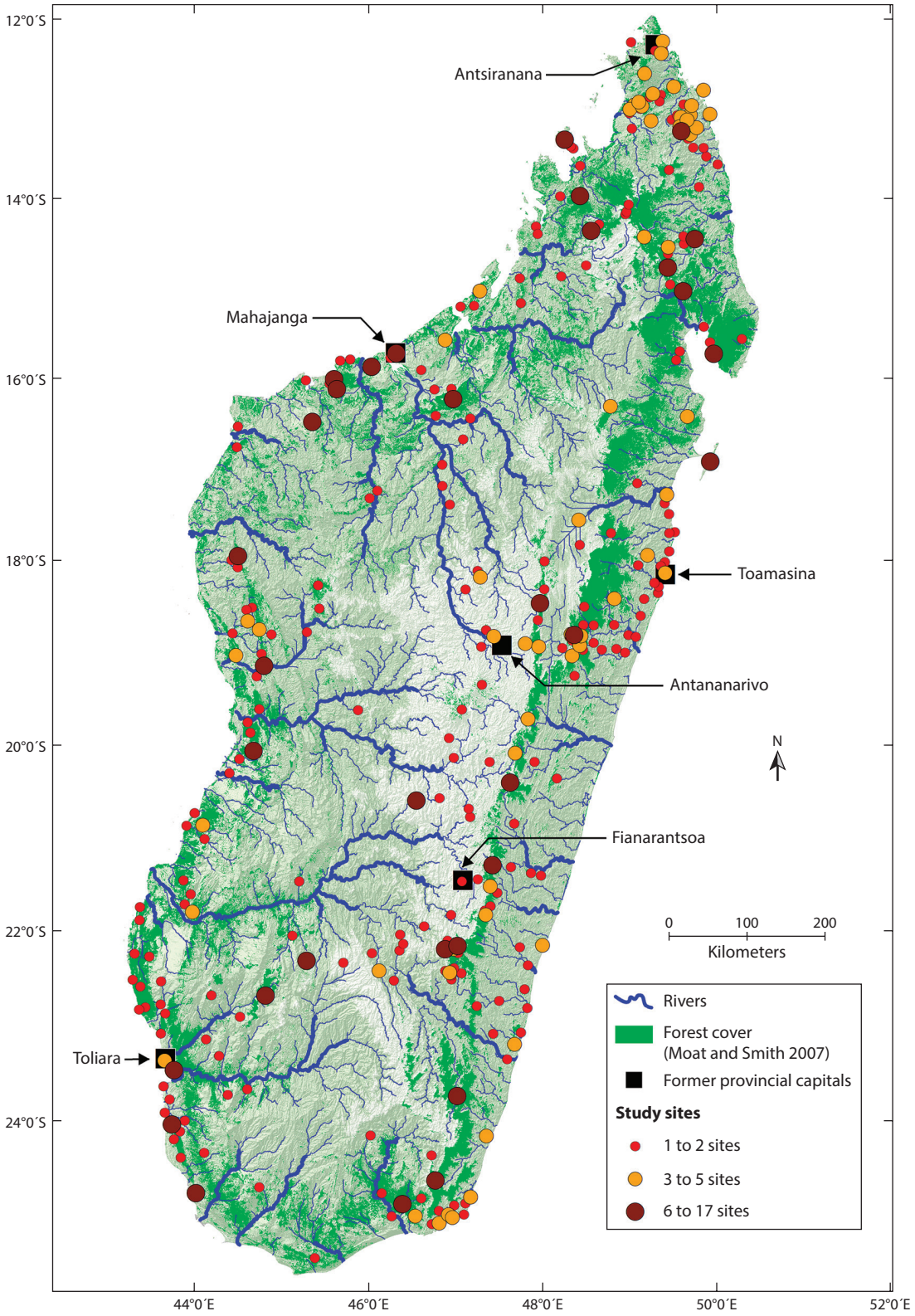

FIGURE 1.14 **Since the late 1990s, a research team of field biologists, associated Malagasy graduate students, and collaborators from numerous national and international institutions have conducted biological inventories on Madagascar, mostly on land vertebrates. This was first done under the auspices of the WWF Madagascar Ecology Training Program (ETP), until 2007, when the program was turned over to Association Vahatra, a direct product of the ETP. The inventories were done under the direction of Achille P. Raselimanana and Steven M. Goodman, and as of June 2020, over 820 sites (indicated on map) have been visited by the team. Many of the points on the map are sites of large-scale multidisciplinary surveys of many weeks to months, often along mountain elevational transects, while others are site inventories of a single taxonomic group.** (FIGURE created by H. M. Rakotondratsimba.)

For the past 30 years, the field of herpetology has seen a sharp increase in research intensity and collaboration, leading to remarkable results and advances. It has also witnessed the emergence of highly qualified national scientists and remarkable capacity building in fields associated with research and conservation. This is due to the work over the years of active leaders and mentors such as Franco Andreone, from the Museo Regionale di Scienze Naturali, Turin, Italy; Frank Glaw, from the Zoologische Staatssammlung München, Germany; Noromalala Raminosoa, from the Université d'Antananarivo; Achille P. Raselimanana, from the Université d'Antananarivo and Association Vahatra; Christopher J. Raxworthy, from the American Museum of Natural History, New York; and Miguel Vences from the Technische Universität Braunschweig, Germany. The two German institutions, Zoologische Staatssammlung München and Technische Universität Braunschweig, are currently hotspots of research on the amphibians and reptiles of Madagascar, benefiting from modern technology such as molecular labs and a strong pool of experts, including Malagasy scientists, affiliated or closely collaborating with Glaw and Vences.

Primatology has made spectacular progress since the beginning of the 21st century thanks to different individuals, including Edward E. Louis Jr. from Omaha's Henry Doorly Zoo and Aquarium, Nebraska, United States, who supervised many Malagasy students in the field and in his US laboratory. He also established the Madagascar Biodiversity Partnership, incorporating research, education, and community involvement for biodiversity conservation. Louis and his colleagues have inventoried lemurs in numerous sites, leading to the description of many species new to science (Figure 1.15).

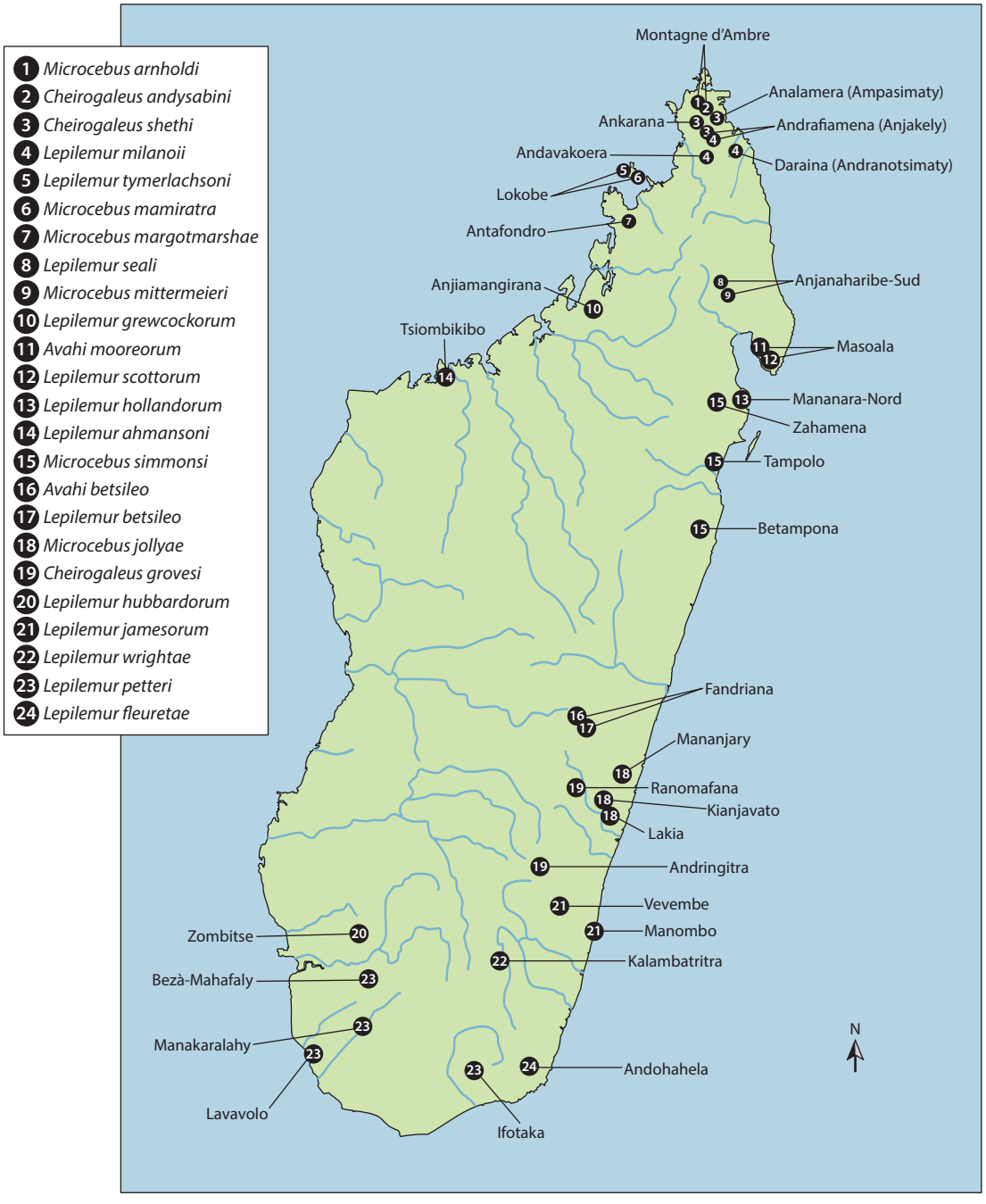

FIGURE 1.15 **Edward E. Louis Jr. and his team inventoried lemurs at over 250 sites across Madagascar, collecting genetic material and morphometric data from 7000-plus individual animals. The information generated subsequently led to the discovery of 24 species new to science at 37 of the inventoried sites.** (FIGURE created by B. Robertson and C. Bailey.)

In 2003, Centre ValBio, a biodiversity research and training station located just outside Ranomafana National Park and overlooking the Namorona River, was established by Patricia C. Wright from the State University of New York at Stony Brook, in partnership with the Université d'Antananarivo, the Université de Fianarantsoa, and the University of Helsinki. This biological research center was established based on previous fieldwork at a field station within this protected area that started in 1986. Many Malagasy and foreign students and scientists have benefited from this research facility to study lemurs and other biota but also to examine a wide range of other topics associated with zoonotic diseases and conservation issues.

Other organizations have contributed to improve the knowledge of the vertebrates of Madagascar. The Peregrine Fund, a US-based NGO dedicated to raptor conservation, started working on Madagascar in 1991, when Rick Watson established a bird and habitat conservation program, focusing on the Masoala Peninsula. The organization has made significant investment to build the capacity of Malagasy field biologists. Today, under the leadership of its national director, Lily-Arison Rene de Roland, the Peregrine Fund Madagascar is participating in the active management of protected areas and studying and conserving rare, endangered, and endemic bird species.

The Role of International Zoo Associations

Scientific and conservation-related advances on Malagasy land vertebrates have been linked for several decades and based on the generosity of a range of sponsors. In the early days, institutions or wealthy individuals financed naturalists and collectors to obtain specimens to enrich the holdings of museums or private collectors: Léon Humblot was sent to Madagascar by the Muséum National d'Histoire Naturelle, Paris; Alfred Crossley's expeditions (see Box 2) were funded by British lepidopterist Christopher Ward; and some individuals, including Alfred Grandidier and Richard Archbold, used their personal wealth to plan and carry out their own zoological explorations.

During the colonial period, institutions were established to support exploration and research on vertebrates, mostly by French researchers: the Académie Malgache in 1902 and the Institut de Recherche Scientifique de Madagascar (IRSM) in 1946. The socialist revolution that coincided with the beginning of the Second Republic (1975–1992) of the Malagasy government focused on the progress of the rural economy; biodiversity research and conservation for many years were not the focus of efforts, although a few scientists continued their studies.

In 1983, Gerald Durrell (1925–1995) and Lee Durrell from the Jersey Wildlife Preservation Trust (now the Durrell Wildlife Conservation Trust) organized a meeting on the island of Jersey concerning research and nature conservation on Madagascar. Berthe Rakotosamimanana (1938–2005), then permanent secretary of the Ministère de l'Enseignement Supérieur, was appointed head of the Malagasy delegation. During this important meeting, the terms of the collaboration between foreign and Malagasy researchers and students were redefined, which in turn, allowed for the possibility of issuing research permits. It was a turning point in the modern era of research and conservation of Malagasy biodiversity.

Another important meeting took place in 1987, at Saint Catherine's Island, Georgia, United States (Figure 1.16), when the IUCN Species Survival Commission (SSC) Primate Specialist Group, the Conservation Breeding Specialist Group, the New York Zoological Society, and the Los Angeles Zoo brought together Malagasy government representatives of the Ministère des Eaux et Forêts, the Ministère de l'Enseignement Supérieur, and the Ministère de la Recherche Scientifique, and international zoo professionals and scientists. The participants discussed how zoos could assist the Malagasy government to conserve endangered species through research, conservation, capacity building, and captive breeding.

In 1988, the Madagascar Fauna and Flora Group (MFG) was created. One of its initial projects was research and captive breeding at Parc d'Ivoloina near Toamasina, first with the support of the Duke University Primate Center (subsequently renamed the Duke Lemur Center), Durham, North Carolina, United States, and later the American Association of Zoos and Aquariums (AZA). In the period from 1988 until 2004, under the leadership of Andrea Katz and Charlie Welsh, MFG carried out activities in Ivoloina and Betampona, contributed to improve the facilities at the Parc Botanique et Zoologique de Tsimbazaza, and developed many partnerships with research institutions and zoos. In 2005, MFG established the Ivoloina Conservation Training Center. The organization has pursued its research and conservation activities under the successive leadership of Karen Freeman, An Bollen, Maya Moore, and Virginia Rodriguez Ponga. MFG has played an important role in uniting zoos and aquaria worldwide to conserve the wildlife of Madagascar. Additional American zoos, such as the Houston Zoo, the Indianapolis Zoo, and Omaha's Henry Doorly Zoo and Aquarium, and European zoos, through the European Association of Zoos and Aquaria (EAZA), joined forces to support research and conservation of species and sites on Madagascar.

Some European zoos had an early involvement in species conservation on Madagascar. One important example is the Durrell Wildlife Conservation Trust, which for more than 30 years has implemented in situ and ex situ conservation programs focused on threatened species such as *Astrochelys yniphora* (Ploughshare Tortoise), *Hapalemur alaotrensis* (Lake Alaotra Bamboo Lemur), and *Aythya innotata* (Madagascar Pochard), the lattermost in partnership with the Wildfowl and Wetlands Trust (see Rene de Roland and Young, pp. 1650–53).

In 2006, EAZA launched a two-year campaign focusing on Madagascar under the leadership of the Zoological Society of London, Zürich Zoo, and Durrell Wildlife Conservation Trust. The Berlin Zoological Park, the Duisburg Zoo, the Münster Zoo, and Weltvogelpark Walsrode created a consortium to focus on waterbirds from Bombetoka. Several EAZA and AZA members launched concerted efforts to conserve lemurs; among the early players were the Parc Zoologique et Botanique de Mulhouse, France; the Parc Zoologique de Paris; the Duke Lemur Center; and the Durrell Wildlife Conservation Trust, Jersey. Others established comprehensive research and conservation programs integrated into the Malagasy scientific and conservation community. In the past 15 years, Chester Zoo, United Kingdom, in partnership with Madagasikara Voakajy, has implemented projects on amphibian conservation around Moramanga and on lemur preservation in the Nosy Mangabe protected area. Bristol Zoo Gardens, United Kingdom, under the leadership of Christoph Schwitzer, deputy chair of the IUCN SSC Primate Specialist Group, has supported lemur conservation in the

FIGURE 1.16 **Group photo from meeting on Saint Catherine's Island, Georgia, United States, in May 1987. From left to right: Louise Emmons (Smithsonian Institution); Patricia C. Wright (then at Duke University Primate Center, now Duke Lemur Center); Joël Ratsirarson (Direction des Eaux et Forêts, Madagascar); Barthélémy Vaohita (WWF Madagascar); Ken Creighton (Smithsonian Institution); Berthe Rakotosamimanana (Ministère de l'Enseignement Supérieur, Madagascar); Mario Gagnon (Duke University, Department of Biological Anthropology); Elwyn Simons (Duke University Primate Center); Russ Mittermeier (then at WWF US; IUCN Species Survival Commission Primate Specialist Group); Alison Jolly (Rockefeller University); Joseph Randrianasolo (Ministère de la Production Animale et des Eaux et Forêts, Madagascar); Joseph Andriamampianina (Département des Eaux et Forêts, Ecole Supérieure des Sciences Agronomiques, Université d'Antananarivo); Voara Randrianasolo (Parc Botanique et Zoologique de Tsimbazaza); and John Hartley (Jersey Wildlife Preservation Trust).** (PHOTO by R. A. Mittermeier.)

FIGURE 1.17 **Edward E. Louis Jr. holding a newly captured male *Daubentonia madagascariensis* (Aye-aye) (see Sterling et al., pp. 1975–78), and the Madagascar Biodiversity Partnership (MBP) organization immobilization team and Aye-aye monitoring field assistants, in Kianjavato, Madagascar, on 17 May 2013. The Kianjavato project has intensively monitored the regional Aye-aye population, conducting nightly follows of multiple individuals since 2011. Pictured from left to right: Stéphane Justin Randriambololona and Elyse Fortinand Razafindrazefa, MBP Aye-aye field assistants; Jean Boniface Andrianjafinirina Ramampiandra, MBP logistical and driver supervisor; Richard Randriamampionona, MBP immobilization team leader; Edward E. Louis Jr., MBP director general; and Jeannot Miandrisoa Rakotomalala, MBP immobilization field assistant. The male Aye-aye was given the name Dera, after a former Malagasy graduate student, and since this initial capture has been monitored with telemetry equipment that collects habitat use and home territorial range data.** (PHOTO by MBP.)

northwestern part of Madagascar. Omaha's Henry Doorly Zoo and Aquarium started its involvement on the island in 1998. Edward E. Louis Jr., director of the zoo's Conservation Genetics Department, transformed this initial scientific interest into a major research and conservation program that gave birth to a Malagasy organization, Madagascar Biodiversity Partnership (Figure 1.17).

SCIENTIFIC ADVANCES BY FAUNAL GROUP

Freshwater Fish Exploration

Ichthyology on Madagascar has never initiated much excitement compared to research on other vertebrate groups, despite the 122 endemic species, including 35 undescribed taxa (see Sparks and Stiassny, pp. 1245–60), among the 178 known freshwater and euryhaline fish species. A long period of inactivity followed the work of Jacques Arnoult in the 1950s, André Kiener in the 1960s, and René Catala (1901–1988) in the 1970s. By the 1990s, researchers including the Swiss Patrick de Rham and the Frenchman Jean-Claude Nourissat (1942–2003) (de Rham 1996), the American Paul Loiselle, the Briton Mark Pidgeon (Pidgeon 1996), and the Frenchman Jean-Marc Elouard from the Institut de Recherche pour le Développement (IRD) conducted fieldwork on this group associated with taxonomy and geographic distribution (Elouard and Gibon 2001). The research of Melanie Stiassny and Peter Reinthal, ichthyologists from the American Museum of Natural History, in association with Noromalala Raminosoa, from the Université d'Antananarivo (Reinthal and Stiassny 1991; Stiassny and Raminosoa 1994), produced important advances. In 1996, de Rham estimated that, based on the knowledge of fish species and the studies underway at the time, the number of endemic species would exceed 50 (de Rham 1996). Subsequent research by Stiassny, Reinthal, and John Sparks, also from the American Museum of Natural History, showed that de Rham's prediction, which seemed rather optimistic to some researchers, was actually an underestimate of the island's fish fauna (see Sparks and Stiassny, pp. 1245–60).

The start of the 21st century saw some work on the revision of catfishes. Heok Hee Ng from the Museum of Zoology at the University of Michigan, United States, and Sparks described two new species of Ariidae (Ng and Sparks 2003). A remarkable addition was the description in 2005 of a new genus, *Gogo*, including one reassigned and two new species, and a third new species in a closely related genus, *Ancharius griseus* (Ng and Sparks 2005), followed by a fourth *Gogo* in 2008 (Ng et al. 2008; see Ng and Sparks, pp. 1260–62). At approximately the same time, Paul Loiselle reviewed the

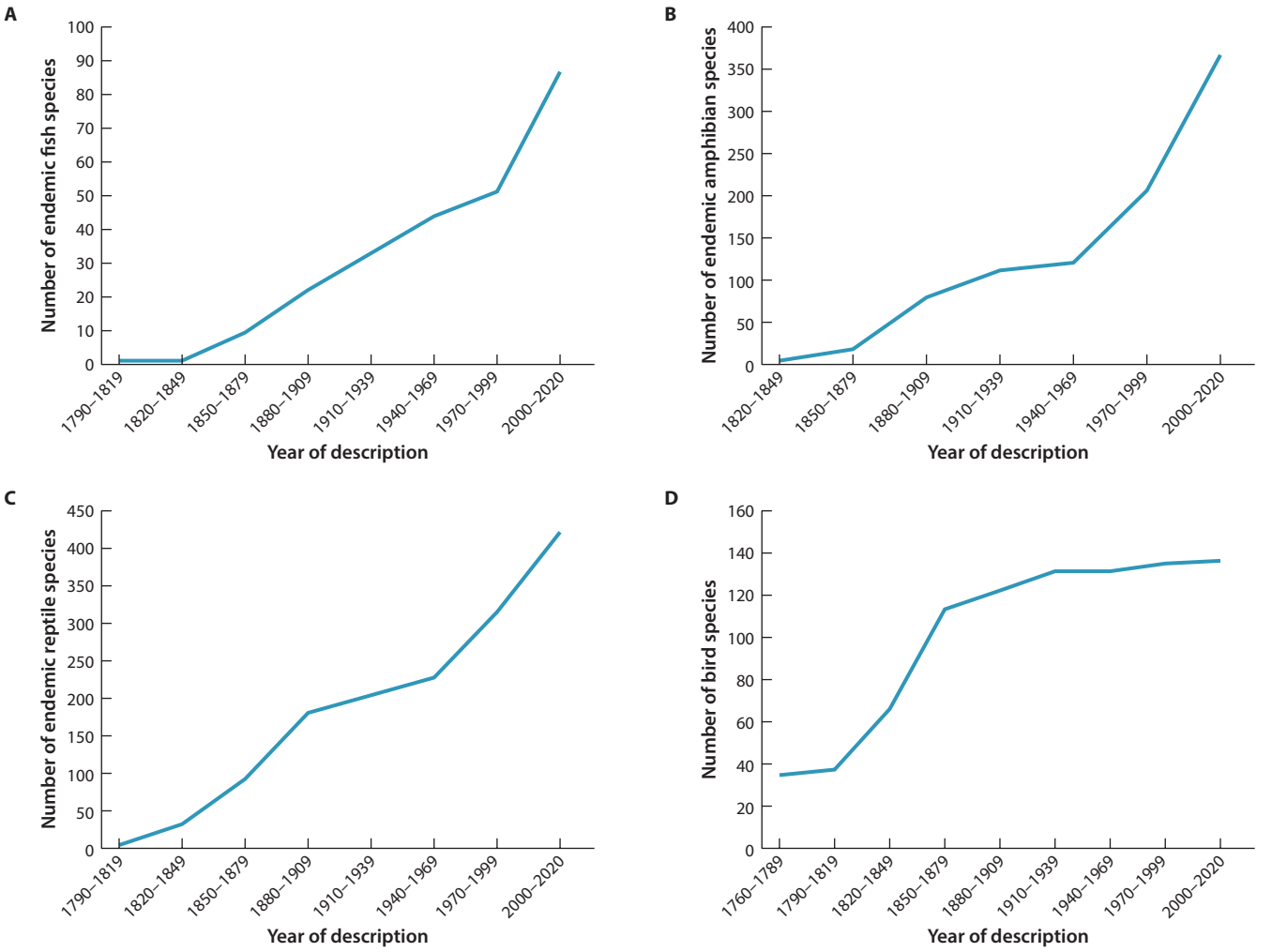

FIGURE 1.18 **Rates of description of different Malagasy vertebrate groups over time and by 30-year periods. Data used in these tabulations extend to May 2020. A) Endemic freshwater fish described between 1790 and 2020. B) Endemic amphibian species, between 1820 and 2020. C) Endemic reptile species, between 1790 and 2020. D) Bird species endemic to the Malagasy Region, between 1760 and 2020.**

genus *Pachypanchax* and described four new species (Loiselle 2006; see Loiselle and de Rham, pp. 1268–70). Among those, *P. sparksorum* was named after Sparks and his wife, Karen Riseng Sparks, and *P. arnoulti* honored Jacques Arnoult.

The genus *Bedotia* (Bedotiidae) gained an additional five new species in the past 20 years (see Stiassny et al., pp. 1273–76). Two new species in the genus *Rheocles* (Bedotiidae), both restricted to the northeastern part of Madagascar, were described in the early 2000s, *R. derhami* (Stiassny and Rodriguez 2001), dedicated to de Rham, and *R. vatosoa* (Stiassny et al. 2002; see Stiassny et al., pp. 1273–76).

The Cichlidae dominates the freshwater fish fauna of Madagascar. Some members of this family (*Coptodon rendalli*, *C. zillii*, *Oreochromis macrochir*, *O. mossambicus*, *O. niloticus*, and *O. spirulus*) originally introduced to Madagascar from Africa for fish farming have escaped and subsequently invaded many Malagasy freshwater ecosystems. A total of 40 endemic cichlids, regrouped in six genera, are found on the island. A notable proportion of these have been described since 2000: five species in the genus *Paretroplus* and eight species in the genus *Ptychochromis*. In each of these two genera, a species is named in honor of American ichthyologist Paul Loiselle (Sparks and Schelly 2011; Stiassny and Sparks 2006).

Today, 87 described endemic freshwater species are recognized, a growth of 82% from the end of the 20th century (Figure 1.18a). This number is certain to increase as many small river basins and watersheds are explored that have not been thoroughly inventoried and numerous confirmed candidate species are formally described. The slow progress compared to the other groups of vertebrates can best be explained by two factors. First, because none of the few active international ichthyologists working on Malagasy fish are permanently based on the island, they conduct irregular field missions and do not have steady contact with Malagasy students. Second, only one Malagasy university scientist, Noromalala Raminosoa from the Université d'Antananarivo, has been engaged in recent decades in the field of ichthyology. In addition, Raminosoa, now retired, has been more involved in herpetological research in recent years, associated with international researchers such as Miguel Vences, Frank Glaw, and Franco Andreone.

Amphibian Exploration

In the field of herpetology, Rose Blommers-Schlösser from the University of Amsterdam in many ways started the modern era by initiating comprehensive research on the amphibians of Madagascar and describing numerous new species. Blommers-Schlösser was the first to integrate karyotype, bioacoustics, and behavior in the delimitation of amphibian species (Vences and Raselimanana 2018). In collaboration with Charles Blanc, she published in the *Faune de Madagascar* series a comprehensive monograph on amphibians in two volumes (Blommers-Schlösser and Blanc 1991, 1993), in which a species, *Spinomantis guibei*, was dedicated to Jean Guibé. Blommers-Schlösser's pioneering role in the modern knowledge of the batrachofauna of the island is recognized with the naming of a genus, *Blommersia* (Dubois 1992), and two species, *B. blommersae* (Guibé 1975) and *Boophis blommersae* (Glaw and Vences 1994), in her honor.

Italian herpetologist Franco Andreone, who started working on Madagascar in the early 1990s, made major contributions to the study and conservation of Malagasy frogs. Hailing from the Museo Regionale di Scienze Naturali, Turin, he undertook during that decade numerous field missions, associated with Malagasy biologists Jasmin Randrianirina and Herilala Randriamahazo from the Parc Botanique et Zoologique de Tsimbazaza. He and his colleagues published some of the initial studies on the amphibian and reptile diversity of the Ranomafana moist evergreen forest (Andreone 1994), the Andohahela moist evergreen forest (Andreone and Randriamahazo 1997), and the forest corridor between the massifs of Marojejy and Anjanaharibe-Sud (Andreone et al. 2000). Andreone has contributed to the description of close to 80 new species of Malagasy amphibians and reptiles, including 21 as first author. A species from the Sambirano Region, *Boophis andreonei* is dedicated to him (Glaw and Vences 1994). With fellow scientists, Andreone published two reference field guides on Malagasy amphibians, one on the arid portions of the island (Andreone et al. 2014) and another on the north (Andreone et al. 2018), aimed at field researchers, students, conservation experts, and naturalists. These books contain succinct details on identification, calls, tadpoles, distribution, habitat, and conservation status.

Beyond his work on taxonomy, Andreone has taken a lead role in the conservation of the threatened amphibian biodiversity of Madagascar (see Crottini et al., pp. 1326–30). As cochair—with Malagasy herpetologist Andolalao Rakotoarison—of the IUCN SSC Amphibian Specialist Group Madagascar, he launched the ACSAM program (A Conservation Strategy for the Amphibians of Madagascar) in 2006 (Andreone 2008). Further, he has been one of the leaders in different aspects of monitoring the chytrid fungus *Batrachochytrium dendrobatidis* on the island (see Bletz et al., pp. 1342–49).

Among the experts involved in the description of new amphibian taxa at the dawn of the 21st century were scientists associated with the Zoologisches Forschungsmuseum Alexander Koenig in Bonn, Germany—Thomas Pintak, Klaus Busse, and Wolfgang Böhme. *Boophis boehmei* (Glaw and Vences 1992) honors Böhme, curator of herpetology at the museum for nearly four decades and author of several new species of Malagasy amphibians and reptiles. Other important figures from this period include the American John Cadle, attached at the start of his research on Madagascar to the Museum of Comparative Zoology at Harvard University and then associated with the Centre ValBio at Ranomafana, who described five new species of reptiles; and Italian biologist Angelica Crottini, from CIBIO-InBIO (Research Centre in Biodiversity and Genetic Resources) at the University of Porto, Portugal, and a member of the IUCN SSC Amphibian Specialist Group Madagascar.

The Swiss Denis Vallan, from the University of Bern, Switzerland, described two species of frogs: *Boophis lichenoides*, from Andasibe (Vallan et al. 1998), and *Anilany helenae*, from Ambohitantely (Vallan 2000). In recognition of his extensive work at Ambohitantely, Vallan was honored in 2010 in the name of a new species of microhylid frog from that forest, *Anodonthyla vallani* (Vences et al. 2010).

Without question, the Germans Frank Glaw, now curator at Zoologische Staatssammlung München, and Miguel Vences, professor of evolutionary biology and zoology at the Technische Universität Braunschweig, have had the longest—over 30 years each—and most significant impact on the development of herpetology on the

island; they are authors and coauthors of over 200 species descriptions of Malagasy amphibians and reptiles (Figure 1.19). Each has a chameleon named for him, *Calumma glawi* (Böhme 1997) and *C. vencesi* (Andreone et al. 2001).

Vences and Glaw's fruitful collaboration started at the end of the 1980s, in the framework of their respective PhD projects under the supervision of Böhme. Together, they produced the essential field guide to the reptiles and amphibians of Madagascar, now in its third edition (Glaw and Vences 1992, 1994, 2007). Their joint work and collaborations with other scientists, including many Malagasy graduate students, ushered in a new era of field research in herpetology, resulting in the description of 46 species of amphibians between 1990 and 1999, an unmatched figure in any other land vertebrate group. In 2000, Glaw and Vences estimated that this research effort would have to continue with the same intensity for the next 20 years in order to document in its near entirety the diversity of Malagasy frogs (Glaw and Vences 2000). Fast-forward to 2020 (see Glaw et al., pp. 1305–22), and the results are well beyond their original expectations.

FIGURE 1.19 **The involvement of Frank Glaw (right) and Miguel Vences (center) in Malagasy herpetology started in the late 1980s. The photo was taken in 2005 at Andasibe during pitfall trapping of leaf-litter skinks with Alimarisy Sam Alain (left), a guide from Association Mitsinjo, a local organization focused on ecotourism, conservation, and research. Glaw and Vences have conducted herpetological inventories in all major terrestrial ecosystems of Madagascar, described dozens of new species of amphibians and reptiles, trained Malagasy herpetologists in field and laboratory techniques, and promoted herpetology as a citizen science through the publication of their field guide to the amphibians and reptiles of Madagascar, first published in 1992 and constantly improved through new editions.** (PHOTO by M. Vences.)

Starting in the first decade of 2000, there was a steep and continuous increase in the number of recognized amphibian species on the island (Figure 1.18b), and this was associated with the integration of molecular, osteological, and bioacoustic characters, as well as a dramatic increase in field research and collecting intensity (Vences et al. 2008). An analysis of herpetological work on the island counted that, between 2000 and 2007, 22 herpetological surveys (amphibians and reptiles) were conducted at 20 different sites, among which 11 were outside of protected areas (D'Cruze et al. 2009).

Among the 51 new amphibian species described after 2000, the family Microhylidae was enriched with 12 new species. However, the greatest taxonomic advances occurred in another endemic family, the Mantellidae, which gained 16 new species of the bright-eyed frogs of the genus *Boophis* (see Hutter et al., pp. 1357–60): intensive survey work led by Vences and Glaw in the eastern part of Madagascar produced two species from Andasibe in 2002 (Vences and Glaw 2002) and one species from Ranomafana (Glaw and Vences 2002). Morphological and genetic analyses of specimens yielded two other species from Andasibe in 2003 (Vallan et al. 2003) and another from Tsaratanàna (Vences et al. 2005). New species were identified from the Manongarivo Massif (Vences and Glaw 2005), Tsingy de Bemaraha (Köhler et al. 2007), and Masoala (Wollenberg et al. 2008). Fieldwork carried out in 2006 and 2007 led to the description of *B. baetkei* from Forêt d'Ambre and *B. lilianae* from Ifanadiana (Ranomafana), the latter dedicated to Malagasy herpetologist Liliane Raharivololoniaina (Köhler et al. 2008).

The mantellid family also underwent a novel classification (see the 10 different contributions on this family in the amphibians chapter), based on phylogenetic information and new analysis of molecular data, and several genera were formally recognized or established: *Boehmantis*, *Spinomantis*, and *Wakea* (Glaw and Vences 2006). The newly described species of *Spinomantis* included *S. nussbaumi*, named after American herpetologist Ronald A. Nussbaum, who conducted numerous field surveys of amphibians and reptiles on Madagascar (Cramer et al. 2008). Finally, in a rare event, as the discovery of new frog genera is exceptional, surveys in the Ankarana protected area in 2003 and 2004 produced four specimens not referable to a known amphibian genus, leading to the description of a new genus and species, *Tsingymantis antitra* (Glaw et al. 2006; see also Glaw et al., p. 1381).

The first decade of 2000 saw the continuation or intensification of the work by established scientists such as Andreone, Achille P. Raselimanana, Vallan, and, of course, Vences and Glaw, and the emergence of several prominent Malagasy amphibian specialists. Jörn Köhler, from the Hessisches Landesmuseum Darmstadt, Germany, started his involvement on the island at that time. His main research focus is on taxonomy, systematics, phylogeny, biogeography, and

ecology of tropical amphibians and reptiles. Köhler is the designer with Glaw of the BIOPAT (Patrons for Biodiversity) initiative, launched in 1999 to raise funds for taxonomic research through individual sponsorships for newly discovered animal and plant species. Several new species of Malagasy amphibians and reptiles are named after BIOPAT donors.

The end of the decade saw also the participation in taxonomic work of the first generation of what would be a long and productive sequence of doctoral and postdoctoral students supervised by Vences and Glaw. Among the first ones were Julian Glos, who worked on the amphibian fauna of western dry deciduous forests, particularly Kirindy Forest CNFEREF (Centre National de Formation, d'Etudes et de Recherche en Environnement et Foresterie); and Katharina Wollenberg, who focused on the radiations of endemic Malagasy amphibians.

While the participation of Malagasy scientists in biodiversity exploration and publications was marginal in the past, notable progress was registered starting in the 1990s with a stronger cohort of Malagasy researchers in herpetology (Vences et al. 2008). Some of the major herpetological expeditions were led or co-led by Malagasy scientists such as Raselimanana, Domoina Rakotomalala, Jean-Baptiste Ramanamanjato, Nirhy Rabibisoa, and Parfait Bora, and about a third of the herpetological survey-based manuscripts included Malagasy scientists either as the first author or among the coauthors (D'Cruze et al. 2009).

The progress in molecular techniques, including greater and more affordable acquisition of DNA sequences, fostered a major boom in the systematics of Malagasy frogs. In 2009, a thorough assessment of the morphological, bioacoustic, and genetic variation of the amphibians of Madagascar, using the DNA sequences of 2850 specimens, concluded that the amphibian diversity of the country had been vastly underestimated and that there were an estimated 221 undescribed candidate species (Vieites et al. 2009). The lead author of the study, David Vieites, from the Spanish National Research Council (Consejo Superior de Investigaciones Científicas, or CSIC), has worked on the speciation and diversification of Malagasy herpetofauna since 2000, in frequent collaboration with Glaw and Vences and his CSIC colleague Ignacio de la Riva. A subsequent publication, led by Bina Perl from the Technische Universität Braunschweig, identified 14 additional undescribed candidate species (Perl et al. 2014). Intensive efforts to investigate these candidate species, coupled with regular fieldwork to gather more material and associated tissue samples, have led to the description since 2010 of 101 endemic species of amphibians—an extraordinary number.

Taxonomic revision of the mantellid genus *Aglyptodactylus* in 2015 resulted in the description of two species and the resurrection of a third from synonymy (Köhler et al. 2015). Significant investigative work was also devoted to the mantellid genus *Gephyromantis*, resulting in a systematic revision (Wollenberg et al. 2012) and the description of 10 species new to science from 2010 to 2019. Among those, *G. saturnini* was dedicated to Alain Dubois, retired director of the Laboratoire Reptiles et Amphibiens, Muséum National d'Histoire Naturelle, Paris, who used the pseudonym Saturnin Pojarski as a radio presenter. The Malagasy subgenus *Duboimantis* (Glaw and Vences 2006) is also named after him. *Gephyromantis grosjeani* honors Stéphane Grosjean, now at the Muséum National d'Histoire Naturelle, who completed his PhD under the mentorship of Dubois and provided valuable contribution to the knowledge of tadpoles of Madagascar (Scherz et al. 2018).

Richard Lehtinen, from the College of Wooster, Ohio, United States, who completed his PhD at the University of Michigan under the supervision of Ronald A. Nussbaum, is at the forefront of ecological and taxonomic work on the genus *Guibemantis*, using DNA and morphology data (Lehtinen et al. 2007). Subsequently, seven new species of this genus have been described by Lehtinen and others (see Lehtinen et al., pp. 1374–78).

In the family Microhylidae, the cophyline frogs were identified as rich in species and genera (Vieites et al. 2009; Perl et al. 2014) and have been the subject of detailed investigation. Mark Scherz, then a doctoral student at Ludwig-Maximilians Universität München and Technische Universität Braunschweig, supervised by Vences and Glaw, and colleagues resurrected the genera *Stumpffia* and *Platypelis* and described a new genus, *Anilany* (Scherz et al. 2016). A remarkable 2019 paper, led by Scherz, described five new species of frogs, including a new genus, *Mini*, containing three minute species (Scherz et al. 2019a). Since around 2010, Scherz has been one of the most productive and prolific researchers on the Cophylinae of Madagascar (Scherz et al., pp. 1382–90), contributing to the description of over 40 new species, as well as other aspects of the island's herpetofauna.

Andolalao Rakotoarison started working with Vences as a student researcher at Tsaratanàna. This work led to her first taxonomic description, a new *Platypelis* (Rakotoarison et al. 2012). She pursued a PhD at the Technische Universität Braunschweig on a taxonomic revision of microhylid cophyline frogs. Her work on the genus *Cophyla* resulted in the description of three new species (Rakotoarison et al. 2015), including *C. noromalalae* dedicated to Noromalala Raminosoa, professor at the Université d'Antananarivo. Rakotoarison applied CT-scanning technology and integrative taxonomy methods on Malagasy specimens of the genus *Stumpffia*, which led to the description of 26 new species of *Stumpffia* in a single paper (Rakotoarison et al. 2017). Rakotoarison's valuable contribution to the field of herpetology was recognized with the naming of a new species of arboreal frog, *Platypelis ando*, in her honor in 2019 (Scherz et al. 2019b).

The increasing rate and volume of taxonomic descriptions have been made possible by considerable technological advances, the availability of specimens from different areas of Madagascar, DNA barcodes, and the tireless work of scientists. The Technische Universität Braunschweig has to be mentioned as the great research hub on the amphibians of Madagascar, its slate of scientists including Vences, Scherz, and Rakotoarison. In addition, research in this domain has benefited from the valuable contributions of Molly Bletz, Bora, Crottini, Glos, Olga Jovanovic, Johannes Klages, Maciej Pabijan, Joana Sabino-Pinto, Axel Strauss, and Wollenberg, who were all affiliated at one point with the institution.

Other scientists involved in taxonomy work included Neil D'Cruze, from the World Society for the Protection of Animals; Dante Fenolio, now at San Antonio Zoo, in Texas; Carl Hutter, University of Kansas, who worked with Shea Lambert, now at University of Arizona, on the molecular phylogeny of the genus *Boophis*; and Gonçalo Rosa from the Zoological Society of London, who is Andreone's former student and works on different aspects of amphibian and reptile conservation, in collaboration with, among others, Samuel Penny from the Bristol Zoological Society.

Last but not least, the 2010s saw the strong and increasing participation of highly qualified Malagasy herpetologists in taxonomy. An undisputed leader in the field is veteran herpetologist Achille P. Raselimanana, professor in the Mention Zoologie et Biodiversité Animale, Université d'Antananarivo, and president of Association Vahatra. A new species in 2017, *Stumpffia achillei*, recognized his leadership (Rakotoarison et al. 2017). Parfait Bora, another PhD student supervised by Vences, took part in numerous field expeditions. A reptile, *Phelsuma borai*, for which he captured the holotype, is named after him (Glaw et al. 2009). Accomplished and mostly self-taught herpetologist Jean Noël, head conservation agent for Madagascar Fauna and Flora Group at the Betampona protected area, who participated in numerous surveys and publications, was honored with the species *S. jeannoeli* (Rakotoarison et al. 2017).

The discovery of new taxa on the island would not be possible without the essential knowledge of local guides and naturalists. Some have, year after year and over decades, contributed to the success of numerous field projects and expeditions. A few species of amphibians have been named to recognize their hard work and commitment: *Anodonthyla emilei* and *A. theoi* are dedicated to brothers Emile Rajeriarison and Theophilus Rajoafiarison, working at Ranomafana National Park (Vences et al. 2010); and *Stumpffia angeluc* honors Angeluc Razafimanantsoa (see Box 7), an expert guide to the north of Madagascar (Rakotoarison et al. 2017).

See chapter 11, on amphibians, for further details on remarkable advances in knowledge and measures of species diversity in this group. New taxa of amphibians have been discovered at a rate that exceeds the capacity for the small but prodigious group of active amphibian specialists to describe them. In 2007, it was already predicted that the taxonomic work in herpetology on the island would not be completed for at least 20 years (Glaw and Vences 2007). Therefore, it is foreseen that the description of new amphibian species over the coming years will continue on its nearly exponential curve.

Reptile Exploration

In the 1990s, research on reptiles uncovered 51 new species for Madagascar. One of the most active groups throughout much of that decade and beyond was composed of Ronald A. Nussbaum from the University of Michigan; Christopher J. Raxworthy from the American Museum of Natural History, who was Nussbaum's postdoctoral student; and Achille P. Raselimanana and Jean-Baptiste Ramanamanjato, both students then at the Université d'Antananarivo. They conducted inventories in numerous sites, including remote areas such as Tsaratanàna (Raxworthy and Nussbaum 1996a), Anjanaharibe-Sud (Raxworthy et al. 1998), Andringitra (Raxworthy and Nussbaum 1996b), and Andohahela (Nussbaum et al. 1999).

Ronald Nussbaum started working on Madagascar in 1989 and was involved in numerous studies on the distribution, ecology, and systematics of amphibians and reptiles. Christopher Raxworthy started studying the amphibians and reptiles of Madagascar in 1985. He has contributed to over 60 descriptions of new taxa of reptiles and amphibians, including 22 as first author, and also to a few on small mammals. Raxworthy conducted herpetological surveys across the island between 1991 and 2001, working closely with two local guides who would become among the most skilled in the country, twin brothers Angelin and Angeluc Razafimanantsoa (see Box 7 and Figure 1.21).

Achille P. Raselimanana (Figure 1.20), for whom Nussbaum was a doctoral supervisor, is now one of the foremost herpetological experts of Madagascar and has published close to 100 scientific papers on Malagasy amphibians and reptiles, including descriptions of four new species of *Zonosaurus* (of the lizard family Gerrhosauridae) and the rediscovery of a species thought to be extinct (Raselimanana et al. 2000, 2006).

Malgasy herpetologist Jean-Baptiste Ramanamanjato, an active field researcher, named two species of skinks (Scincidae), *Trachylepis tavaratra* and *T. vezo* (Ramanamanjato et al. 1999a, 1999b). A frog species, *Anodonthyla jeanbai* (Vences et al. 2010), recognizes his long-lasting participation in advancing herpetological studies on the island.

FIGURE 1.20 **Achille P. Raselimanana in the herpetology collection at the Field Museum of Natural History, Chicago, in June 2001, with a specimen of *Flexiseps meva*, collected in the Ambohijanahary Special Reserve by Domoina Rakotomalala in 1999. Raselimanana identified the skink as a probable new species in 2001; in 2009, Aurélien Miralles, postdoctoral student of Miguel Vences, confirmed it as a species new to science using molecular analysis and additional material from Marotandrano and Makira (Miralles et al. 2011).** (PHOTO by O. Langrand.)

BOX 7 ANGELIN RAZAFIMANANTSOA AND ANGELUC RAZAFIMANANTSOA, MALAGASY HERPETOLOGISTS, MAMMOLOGISTS, NATURALISTS

C. J. RAXWORTHY

ANGELIN AND ANGELUC RAZAFIMANANTSOA are identical twins (Figure 1.21) who grew up in their family's house at the edge of the Montagne d'Ambre National Park, above the town of Joffreville. During their childhood, the road barrier to the park was positioned outside their house, and their older brother, René, worked as a forest guard for the park, while their father frequently was engaged by visiting scientists as a porter and camp assistant. After successfully evading the Madagascar national military draft (by failing the medical test through adding salt to their urine samples!), the twins worked in 1989–1991 as camp and research assistants with Ben Freed, who was conducting research for his PhD on *Eulemur coronatus* (Crowned Lemur) in the park. After this, they also gained experience working with local tourism operators and local caving guides, serving as naturalists in Montagne d'Ambre, Ankarana, and other regional sites such as Montagne des Français and Oronjia.

FIGURE 1.21 **In 1993, Christopher Raxworthy and his team conducted an inventory of the amphibians and reptiles of the Tsaratanàna Massif. This photo was taken on 28 March at the Maromokotro summit (2876 m). Top row (left to right): Pierre Soga (Service des Eaux et Forêts), Angelin Razafimanantsoa (field assistant); middle row: Jean-Baptiste Ramanamanjato (herpetologist), Angeluc Razafimanantsoa (field assistant); bottom row: Christopher Raxworthy (expedition leader, University of Michigan) and two local guides.** (PHOTO by A. P. Raselimanana.)

Between 1991 and 2001, they worked closely with Chris Raxworthy (University of Michigan and subsequently American Museum of Natural History), conducting herpetological surveys throughout Madagascar. The first survey, at Montagne d'Ambre in 1991, was immediately followed by surveys in Ankarana and Manongarivo in 1992. Subsequently, they participated in surveys in tens of sites. They also worked occasionally with other herpetologists, such as Ronald Nussbaum in the south, and Miguel Vences and Frank Glaw in the north; and in different areas, principally Montagne d'Ambre and Ankarana, with different Malagasy students and collaborators. The two brothers were able to work under the toughest of field conditions and became highly skilled at finding amphibians and reptiles, including very cryptic species such as fossorial skinks and lizards, and tiny *Brookesia* dwarf chameleons. They helped collect many important amphibian and reptile specimens, including some newly described species (Nussbaum and Raxworthy 1995; Rakotoarison et al. 2017).

Thanks to their natural history skills and extensive knowledge of reserves and research methods, they also became highly sought-after guides for natural history television programs (including BBC productions and the PBS series *Nova*). Good accounts of their personalities are captured in Tyson (2000), which describes them working with Chris Raxworthy's survey team in the Lokobe protected area, and Heying (2002). Angelin and Angeluc continue to work as biodiversity tourism guides throughout Madagascar. Both are married with children and live in Antsiranana and Joffreville.

MALAGASY VERTEBRATE SPECIES NAMED AFTER THE TWO RAZAFIMANANTSOA BROTHERS

1. *Pseudoacontias angelorum*, a skink known from moist evergreen forests in the Marojejy region, was described and named in a plural form after both Angelin and Angeluc by Nussbaum and Raxworthy (1995).
2. *Stumpffia angeluci*, a microhylid frog known from moist evergreen forest in Montagne d'Ambre, was named after Angeluc by Rakotoarison et al. (2017).

Other contributors of the 1990s included American John Cadle, from the Museum of Comparative Zoology at Harvard, who revised several groups of snakes and described five new species. German researchers, including Wolfgang Böhme and Mathias Lang from the Zoologisches Forschungsmuseum Alexander Koenig in Bonn, Herbert Rösler from the Staatliche Naturhistorische Sammlungen in Dresden, and Robert Seipp from the Senckenberg Museum in Frankfurt, named several taxa of reptiles. The Italians Riccardo Jesu, Fabio Mattioli, and Giovanni Schimmenti worked on Madagascar from 1995 to the early 2000s, under a cooperation agreement between the Acquario di Genova, Italy, and the Université d'Antananarivo, authoring or contributing to descriptions of new species, including two new chameleons with Franco Andreone (Andreone et al. 2001).

In 2002, Andreone and Allen Greer, the latter from the Australian Museum, Sydney, completed a comprehensive taxonomic revision of 33 species of scincid lizards, resulting in the description of nine new species (Andreone and Greer 2002). The Malagasy skinks were further enriched with two other species, described by Japanese researchers Shuichi Sakata and Tsutomu Hikida from Kyoto University, including *Voeltzkowia yamagishii*, named after Satoshi Yamagishi, the project leader of an ecological survey at Ankarafantsika (Sakata and Hikida 2003). The collaboration between Kyoto University and the Université d'Antananarivo started in 1997 and led to important joint zoological discoveries in the fields of ethology and ecology. Further knowledge on the skinks of Madagascar was acquired through several studies of their phylogeny and systematics, including by Jörn Köhler from the Hessisches Landesmuseum Darmstadt, Germany, who rediscovered two species and named two new species of the limbless genus *Paracontias* (Köhler et al. 2009, 2010).

Aurélien Miralles, a French expert in the systematics of the Scincidae, was an important driver to advances in knowledge of this family on Madagascar (see Miralles et al., pp. 1494–502). After receiving a doctorate at the Muséum National d'Histoire Naturelle, Paris, Miralles pursued his postdoctoral research at the Centre National de la Recherche Scientifique (CNRS) and at the Technische Universität Braunschweig with Miguel Vences. Finally, Miralles led the publication of the only Malagasy taxonomic novelty in the family Iguanidae since 1900 (see Cadle et al., pp. 1502–5).

In total, 21 new species in the family Scincidae have been described since 2000 on Madagascar. Comprehensive taxonomic reviews and molecular and morphological data have indicated that numerous widespread Malagasy reptile species actually represent species complexes and require further investigation (Glaw and Raselimanana 2018). In 2012, a DNA barcoding study led by Zoltán Nagy, a researcher at the Institut Royal des Sciences Naturelles de Belgique, Brussels, revealed a substantial number of unrecognized genetic lineages and many potential undescribed reptile species (Nagy et al. 2012). This approach has been particularly useful for the emblematic chameleons of Madagascar, as intensive fieldwork and taxonomic revisions have identified 26 new species in the family Chamaeleonidae since 2000 (see Scherz et al., pp. 1506–16).

For his PhD at the Zoological Institute of the Technische Universität Braunschweig, German herpetologist Philip-Sebastian Gehring worked on the phylogeny and phylogeography of different amphibian and reptile species of Madagascar, including a phylogenetic assessment of species in the genus *Calumma*, identifying 33 potential new species (Gehring et al. 2012). David Prötzel, from the Zoologische Staatssammlung München, focused his PhD on the taxonomy of *Calumma*, leading to the revalidation and description of eight new species since 2017, including *C. gehringi* (Prötzel et al. 2017), dedicated to Gehring for his comprehensive and fundamental molecular study. The latest development for this group was a further revision using an integrative taxonomic approach, leading to the resurrection of one species and the description of three new species in 2020 (Prötzel et al. 2020). See Scherz et al. (pp. 1506–16) for a review of taxonomical work on Malagasy chameleons.

The geckos of Madagascar have been one of the most researched groups of reptiles over the past 20 years, involving experts from all over the world and resulting in the description of 39 new species. Gecko specialists Aaron Bauer from Villanova University, Pennsylvania, United States; Ivan Ineich from the Muséum National d'Histoire Naturelle, Paris; and Teppei Jono from Kyoto University, Japan, worked on the genus *Blaesodactylus* (see Bauer et al., pp. 1474–79). Oliver Hawlitschek carried out the taxonomic revision of the genus *Ebenavia* and described two new species during his postdoctoral research at the Zoologische Staatssammlung München (Hawlitschek et al. 2018). Mark Scherz and colleagues from the United States and Germany discovered the first new species of *Geckolepis* in 75 years, *G. megalepis* (Scherz et al. 2017). Marta Puente from the Universidade de Vigo, Spain, in collaboration with Vences, David Vieites, and Frank Glaw, reviewed the systematics of the genus *Lygodactylus*. A species of lamprophiid snake from Madagascar, *Thamnosophis martae*, was named to recognize Puente's work (Glaw et al. 2005). Angelica Crottini focused on the morphological and genetic research of the gecko genera *Paragehyra* and *Phelsuma*.

Malagasy herpetologist Fanomezana Ratsoavina pursued a doctorate on the taxonomy, phylogeny, and phylogeography of leaf-tailed geckos, genus *Uroplatus*, at the Technische Universität Braunschweig. She conducted molecular studies to define species boundaries, candidate species, and geographic distribution (Ratsoavina et al. 2013) and was the lead author for descriptions of six new *Uroplatus* species since around 2010 (see Gehring et al., pp. 1480–85).

The snakes of Madagascar have been enriched with a few novelties, including 16 new species described since 2000 and significant generic and specific rearrangements (see Cadle et al., pp. 1525–31). Vences and Glaw described a subspecies of *Sanzinia* boa (Vences and Glaw 2003) that was subsequently elevated to species level, *S. volontany* (Reynolds et al. 2014; see Raxworthy and Glaw, pp. 1522–25). A molecular phylogenetic study revealed that Malagasy blind snakes are a distinct lineage, leading to the creation of a new subfamily, Madatyphlopinae, and a new genus, *Madatyphlops* (Hedges et al. 2014). Among the 11 species transferred into this new genus were two discovered after the start of the 21st century (see Raxworthy, pp. 1532–34), including *M. rajeryi*, dedicated to Emile Rajeriarison, an expert guide from Ranomafana National Park (Renoult and Raselimanana 2009).

Scientists from the Zoologische Staatssammlung München have been among the most active in the field of molecular phylogeny and systematics studies of Malagasy snakes over the past 20 years, working under the leadership of Glaw, who participated in the description of 11 new species, including seven as first author. Affiliated with the same research institution, Michael Franzen described a

new species of *Liophidium* and contributed to numerous research papers on the reptiles of Madagascar (Franzen et al. 2009).

Sara Ruane, then a postdoctoral researcher at the American Museum of Natural History and now at the Field Museum of Natural History, collaborated with Raxworthy on the phylogenetics of Malagasy snakes and described one species of *Madagascarophis* in 2016 (Ruane et al. 2016). While at Rutgers University, New Jersey, United States, Ruane continued her research on the herpetofauna of Madagascar and applied an integrative taxonomy approach to the then monotypic snake genus *Mimophis*, to conclude the existence of two distinct taxa (Ruane et al. 2018).

The taxonomic research on reptiles has greatly benefited from the strong involvement of a great diversity of international researchers and institutions over the past 20 years, particularly the German research centers Zoologische Staatssammlung München and Technische Universität Braunschweig. The increasing and critical participation of Malagasy scientists must also be highlighted in the productivity that led to the description of 107 new species of reptiles since 2000 (see Figure 1.18c). In addition to veteran specialists such as Raselimanana, the past decade saw the emergence of new scientists such as Ratsoavina, an active contributor to countless projects on herpetological taxonomy, phylogeny, phylogeography, distribution, and conservation assessment, and the leader of her own research team at the Université d'Antananarivo. Other Malagasy experts actively involved in the research on reptiles since about 2010 included Christian Randrianantoandro; Roger Daniel Randrianiaina, another doctoral student of Miguel Vences; and Herilala Randriamahazo, now at the Wildlife Conservation Society, Antananarivo.

Bird Exploration

The alpha-taxonomy of Madagascar birds was well documented before the 1980s and based on classical museum studies. Publications by a number of authors—starting with Karel Johan Gustav Hartlaub (1877) and Milne Edwards and Grandidier (1876–1885), then Delacour (1932a, 1932b) and Rand (1936), and until a few decades ago Benson et al. (1976, 1977)—summarized information on most species. After the considerable work of the Mission Zoologique Franco-Anglo-Américaine from 1929 to 1931, almost no bird species were described from the island for several decades. The single exception was *Xanthomixis apperti* (Appert's Tetraka), named after Otto Appert (1930–2012), who lived for years in Manja, where he was a Catholic priest, and discovered this bird in the 1970s in the Zombitse Forest near Sakaraha (Colston 1972).

Between 1980 and 2000, ornithological research focused mostly on bird distribution and ecology and to a lesser extent on phylogeny. Important ornithologists during this period include Aristide Andrianarimisa, Appert, Steven M. Goodman, Dominique Halleux (see Box 8), Frank Hawkins, Olivier Langrand, Richard Lewis, Raoul Mulder, Mark Pidgeon, Michael Putnam, Georges Randrianasolo (see Box 4), Mamy Ravokatra, Jean-Claude Razafimahaimodison, Lily-Arison Rene de Roland, Thomas S. Schulenberg, Russell Thorstrom, Lucienne Wilmé, Satoshi Yamagishi, and Steve Zack, among others.

Langrand spent 12 years on Madagascar between 1980 and 1996, and his fieldwork, largely within the WWF program, led to the publication of numerous scientific articles. He also published four field guides on Madagascar birds that promoted birdwatching and ornithology nationally and internationally. The first, published first in English (Langrand 1990) and later in French (Langrand 1995), fostered the interest of foreign and Malagasy ornithologists in the birds of the island. This was followed by a guide to the birds of Madagascar and the neighboring islands, coauthored with Ian Sinclair, in English, including a revised edition (Sinclair and Langrand 1998, 2013), and in French (Sinclair and Langrand 2014).

Interest in Malagasy birds was further reinforced by the publication of a photographic guide (Morris and Hawkins 1998) and more recently by the comprehensive and exceptional encyclopedic accounts in the volume on the birds of western Indian Ocean islands in the series *Handbook of the Birds of Africa* (Safford and Hawkins 2013).

Goodman's first fieldwork on Madagascar was to conduct an ornithological survey in the Tolagnaro region, in 1989, in collaboration with Schulenberg, then a PhD student (and both from the Field Museum of Natural History, Chicago). This first contact marked for Goodman the beginning of a deep involvement in the study of Malagasy biodiversity. He truly catalyzed the scientific community and imposed a rigorous and systematic approach to surveys and data collection. He ignited a common effort among the international scientific community to document the fauna of Madagascar, and ornithology was one of his priorities.

Goodman's scientific missions have led him all over the country. As of June 2020, he and his colleagues and associated students had visited over 820 sites on the island (see Figure 1.14). Numerous monographs in *Fieldiana: Zoology*, a series published by the Field Museum of Natural History; scientific publications in a range of international journals; and chapters in a number of books reflect this great dynamism. For close to three decades, capacity building for Malagasy scientists has been one of his priorities: he and colleagues have published 16 monographs in French within the series Centre d'Information et de Documentation Scientifique et Technique d'Antananarivo. Furthermore, Goodman, along with Langrand and Wilmé, founded in 1992 the Working Group on Birds in the Madagascar Region, which until 2002 published a bulletin with the objective of informing regional ornithologists on publications and giving them the opportunity to publish their own information.

In 1993, Schulenberg, Goodman, and Jean-Claude Razafimahaimodison, now of Centre ValBio, Ranomafana National Park, reevaluated the taxonomic status of one subspecies of *Nesillas typica* (Madagascar Brush-warbler) and elevated it to a full species, *N. lantzii* (Subdesert Brush-warbler) (Schulenberg et al. 1993), named after French zoologist Jean Auguste Lantz, who collaborated with Alfred Grandidier. A few years later, Goodman was the lead author of a new genus and species of bird described in collaboration with Langrand and Brett Whitney, *Cryptosylvicola randrianasoloi* (Cryptic Warbler) (Goodman et al. 1996), named in honor of the first Malagasy ornithologist, Georges Randrianasolo (see Box 4). In 1997, Goodman, Hawkins, and Charles Domergue described a new species of vanga, *Calicalicus rufocarpalis* (Red-shouldered Vanga), located in the region south of Toliara (Goodman et al. 1997). Domergue's observations and photos from the 1980s and specimens from the Muséum National d'Histoire Naturelle, Paris, formed the basis for the description.

BOX 8 DOMINIQUE HALLEUX (B. 1953), FRENCH AGRONOMIST, ORNITHOLOGIST, NATURALIST, PHOTOGRAPHER, ON MADAGASCAR BETWEEN 1978 AND 1998

F. ANDRIAMIALISOA AND O. LANGRAND

DOMINIQUE HALLEUX was born in Mulhouse, France, on 21 August 1953, and spent his childhood there. His father held a position of research director in a large textile factory in Mulhouse. His grandfather and father both hunted in the Ardennes, France, the family's home region. Halleux started birdwatching at the age of nine, first with his father and later with a local NGO called Les Jeunes Amis des Animaux of Mulhouse. As part of this organization, he actively participated each winter in the waterfowl census on the Rhine River.

Halleux moved to Paris in 1971, where he obtained his baccalaureate in 1972 in a scientific section. In 1973–1974, he completed the first two preparatory years at the Institut Supérieur Agricole de Beauvais, France. In 1974, when it was time for completing his mandatory military service, he opted to serve abroad and was sent to Madagascar.

He set foot on the island in September 1974, as a member of the French Navy, and was posted in Antsiranana (Diégo Suarez) but assigned as school supervisor at the Lycée Français de Diégo Suarez. With this posting, Halleux had his first exposure to the extraordinary richness and diversity of species of the flora and the fauna of Madagascar. He not only explored the surroundings of Antsiranana but also went to the Masoala Peninsula and to the region of Toliara. Once his military service was completed in August 1975, he returned to France and resumed his studies at the agronomy school of the Institut Supérieur Agricole de Beauvais. He graduated as agronomy engineer in 1978 and was hired by the Ministère de la Coopération of the French government.

Halleux left for Madagascar in May 1979 to take the position of technical assistant of a national program promoting coffee, pepper, clove, and cacao production (Opération Café, Poivre, Girofle, Cacao). He was in charge of the northeastern sector and was based in Maroantsetra, where he lived from May 1979 to January 1984. In Maroantsetra, he rented one of the few concrete houses in town from André Peyriéras (see Box 5), who by that time had largely left Maroantsetra to live in Antananarivo. Peyriéras introduced Halleux to one of his favorite sites on the Masoala Peninsula, the small village of Hiaraka, where Peyriéras had observed and collected endemic species of insects, reptiles, birds, and mammals. Halleux started exploring this site on his own, as well as other parts of the region. He rapidly became familiar with the flora, in particular orchids, and the local fauna. At that time, the Masoala Peninsula was poorly known and was still covered with extensive areas of forest. Halleux's knowledge of the biota of the region became known internationally, and some birdwatchers started knocking at his door to be guided in the region.

In August 1980, Halleux welcomed Olivier Langrand in Maroantsetra during Langrand's first visit to Madagascar. They had been introduced to each other by Michel Gunther, a naturalist, birdwatcher, and photographer, as all three had grown up in Alsace. Extensive discussions between Halleux and Langrand influenced the latter's decision to come back to Madagascar to work on the first field guide to the birds of the island.

In October 1980, Halleux guided French ornithologist Jean-Marc Thiollay, from the Laboratoire d'Ecologie, Ecole Normale Supérieure, Paris, and German plastic surgeon Berndt-Ulrich Meyburg, based in West Berlin, the chairman of the World Working Group on Birds of Prey. Both were interested in finding *Eutriorchis astur* (Madagascar Serpent-eagle) and *Falco zoniventris* (Banded Kestrel) (Thiollay and Meyburg 1981). In February 1981, Gunther came to visit Halleux in Maroantsetra; together they explored the regional forests.

In January 1982, Langrand returned to Madagascar and, with Lucienne Wilmé, spent four months in Maroantsetra and benefited immensely from Halleux's knowledge and generosity. They were joined in April 1982 by Vincent Bretagnolle, who had just graduated from the Institut National Agronomique Paris-Grignon, France, and was preparing the illustrations for Langrand's field guide to the birds of Madagascar (Langrand 1990). Other naturalists, including French nature photographer Roland Seitre, who visited Halleux in Maroantsetra in 1982, benefited from Halleux's knowledge of the region and the logistic means at his disposal to explore the region.

American Mardy Darian (1933–2015), a passionate palm collector, relied on the support of Halleux and of one of his employees, Jean Gérard, to track down rare species of palm trees in the Maroantsetra region. Darian and Gérard's first survey led to the discovery of a new species of palm, *Marojejya dariani*, honoring Darian, described in 1984. Halleux and Gérard continued to work on palms, mainly by collecting information from local people, who proved to have a very fine knowledge of large species of palm trees and their different uses. Botanist John Dransfield, of the Royal Botanic Gardens, Kew, United Kingdom, described a new genus and species of palm from Masoala, *Voanioala gerardii*, dedicating it to Gérard (Dransfield 1989), who was the first to locate the trees and provide the seeds. Two years later, Dransfield described another new genus and species of palm tree, *Lemurophoenix halleuxii*, discovered on the foothills of Masoala by Gérard and Halleux in 1987, and named it after Halleux (Dransfield 1991). Swiss ornithologist Otto Appert visited Halleux in February 1983 with the hope of seeing the forest bird *Mesitornis unicolor* (Brown Mesite), which they did not chance to find.

In 1985, Halleux was transferred to Manakara, for the Opération de Développement Agricole du Sud-Est, to continue promoting coffee culture. While traveling to his new posting, he drove through an intact block of forest and immediately suspected its conservation value. This forest is today Ranomafana National Park.

(continued...)

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